NEW TOPIC TITLES

**DES 475** Topics in Design (3)
*Prerequisites: Restricted to upper-division Design majors; DES 300* and DES 322*; or consent of the instructor. 
Directly supervised special topic design study taking various forms including teaching assistantship, group project, etc. Topics to be specified in Class Schedule. May be repeated for a total of 9 units when topics vary. [Formerly DAI 475]
   1) Contemporary Design Issues

**HIST 642** Proseminar: American History (3)
*Prerequisites: Restricted to upper-division standing; ENG 214 or equivalent, HIST 300GW*; or consent of the instructor. 
Seminar-style culminating experience focused principally on topics in US History. Topics to be specified in Class Schedule. May be repeated when topics vary.
   1) Political Movements in U.S. History
   2) U.S. Legal History
   3) Gender and Sexuality in U.S. History
   4) California: America's America

**PHIL 770** Seminar in a Classical Author (3)
Prerequisite: Graduate standing or consent of the instructor.
Understanding and assessment of the philosophical positions of one, or a pair of, highly influential philosopher(s). Philosopher(s) to be specified in the class schedule. May be repeated when different philosophers are studied.
   1) Sellars

NEW COURSES

**CAD 230** Principles and Practices in Early Childhood Programs (3): Regular/SF State; CS-02; Fall 2018
Historical context and theoretical perspectives in early care and education. Examination of the role of the early childhood educator, identification of best practices for environmental design, curriculum, and teaching strategies. Exploration of teacher-child relationships, professional ethics, career pathways and professional standards. May be repeated for a total of 6 units. (Plus-minus letter grade only)
**CAD 330** Curriculum and Development in Early Childhood (3): Regular; CS-02; Fall 2018

*Prerequisite: CAD 230 or consent of the instructor.*

Curriculum and environments for young children. Exploration of teaching strategies and curriculum development based on theoretical frameworks, observation, and assessment. Focus on the teacher’s role in supporting development and learning across the curriculum, including all content areas. May be repeated for a total of 6 units. (Plus-minus letter grade only)

**ENGR 271** Introduction to MATLAB (1): Regular; CS-02; Fall 2018

*Prerequisites: Restricted to upper-division standing; MATH 226.*

Basic introduction to MATLAB language: array manipulations; control-flow; script and function files; simple 2-D plotting and editing; Simulink; graphical user interface. (Plus-minus letter grade only)

**ENGR 272** Engineering Project Management (1): Regular; CS-02; Fall 2018

*Prerequisite: Restricted to Engineering students with sophomore standing or above.*

An introduction to various concepts and tools associated with engineering project management. (Plus-minus letter grade only)

**ENGR 291** Introduction to Creo Parametric (1): Regular; CS-02; Fall 2018

*Prerequisite: Restricted to Engineering students with sophomore standing or above.*

Introduction to 3D modeling using Creo Parametric. Fundamental concepts and user interface. Selection and editing of geometry, features, and models. (Plus-minus letter grade only)

**ENGR 292** Introduction to Solid Works - Level I (1): Regular; CS-02; Fall 2018

*Prerequisite: Restricted to Engineering students with sophomore standing or above.*

Introduction to fundamentals of 3D modeling in SolidWorks. Focus on file management, templates, sketching, and modeling techniques, and producing manufacturing drawings. (Plus-minus letter grade only)

**ENGR 294** Introduction to Microcontrollers (1): Regular; CS-02; Fall 2018

*Prerequisite: Restricted to Engineering students with sophomore standing or above.*

Introduction to the operating principles of microcontrollers. Programming of microcontrollers to read sensor inputs and produce control outputs. Hands-on applications involving actuators, peripherals, and electromechanical circuits. (Plus-minus letter grade only)

**ENGR 295** Design Methodology (1): Regular; CS-02; Fall 2018

*Prerequisite: Restricted to Engineering students with sophomore standing or above.*

Systematic methods for the design of engineering systems. Strategies to resolve technical and non-technical issues in engineering design. (Plus-minus letter grade only)
**ENGR 454** Application Specific Integrated Circuit Design (4): Regular; CS-01 & CS-16; Fall 2018

*Prerequisite: ENGR 356* with a grade of C- or better.

Concepts and methodologies established for design and automated ASIC implementation of complex digital designs. Design at the system level using hardware description language. Implementing design in hardware using the ASIC design flow. Standard cell ASIC design flow involving steps of automated logic synthesis and optimization to gate-level, and layout generation using automated placement and routing. Lecture, 3 units; laboratory, 1 unit.

**ERTH 240** Environmental Water Resources (3): Regular/GE/SF State; CS-01 & CS-16; Fall 2018

Apply concepts from hydrology, the science of water, to investigate the distribution, flow, and properties (physical, chemical, and biological) of water resources. Characterize the environmental state of freshwater and related food, energy, and ecological resources. Problem-solving related to pollution and prevention, natural disasters, such as droughts and floods, water scarcity, urbanization and stormwater, sustainable groundwater management, engineering solutions, seawater intrusion, and climate variability, with a focus on CA and San Francisco. Experience with hydrologic measurements, testing, data collection, and analysis in the field and using computer models. Lecture, 2 units; laboratory, 1 unit. (Plus-minus letter only)

**HIST 475** History of Sexuality in the United States Before 1900 (3): Regular/AI/SF State; CS-02; Fall 2018

*Prerequisite: ENG 214 or equivalent or consent of the instructor.*

Examination of the history of sexuality in colonial America and the United States before 1900, with emphasis on the sexual dimensions of capitalism, colonialism, conquest, immigration, imperialism, industrialization, racism, slavery, segregation, and urbanization. Same-sex, cross-sex, monoracial, and interracial relationships will be explored, as will courtship, marriage, and family life; abortion, birth control, fertility, and reproduction; sex work and commercialized sex; free love, monogamy, and polygamy; obscenity, pornography, and sexual representation; sexual health, disease, ability, and disability; sex education and sexual knowledge; sexual consent and violence; and the regulation and production of sexuality in society, culture, economy, politics, and law.

**HIST 485** History of Sexuality in the United States Since 1900 (3): Regular/AI/SF State; CS-02; Fall 2018

*Prerequisites: ENG 214 or equivalent or consent of the instructor.*

Examination of the history of sexuality in the United States since 1900, with emphasis on "sexual revolutions" and the influences and implications of capitalism, colonialism, immigration, imperialism, industrialization, racism, segregation, urbanization, and war. Same-sex, cross-sex, monoracial, and interracial relationships will be explored, as will courtship, marriage, and family life; abortion, birth control, fertility, and reproduction; sex work and commercialized sex; free love, monogamy, and polygamy; obscenity, pornography, and sexual representation; sexual health, disease, ability, and disability; sex education and sexual knowledge; sexual consent and violence; and the regulation and production of sexuality in society, culture, economy, politics, and law.
**HTM 215** Hospitality Industry Practicum (3): Regular; CS-78; Summer 2018  
*Prerequisite: Restricted to HTM majors and minors.*  
Students engage in at least 135 hours of hospitality industry experience. Leadership styles and models will be used by students to understand differing leadership styles. Students also reflect on their own leadership qualities and identify areas for self-improvement. (Plus-minus letter grade only)

**ISYS 412** Application Development for Data Analytics (3): Regular; CS-02; Fall 2018  
*Prerequisites: Restricted to upper-division standing; ISYS 350* and ISYS 363* with grades of C- or better.*  
Development of business applications with an emphasis for data analytics. Application development tools and analytics libraries. Selection of tools and libraries will vary based on instructor preference.

**PLSI 476** The American Presidency (4): Regular; CS-02; Fall 2018  
*Prerequisites: Upper-division standing or consent of the instructor.*  
Examination of the many facets of the American presidency: powers and person of the presidency, its history and evolution, interactions between the executive and other branches of U.S. government, the president in the policy process.

**RRS 290** Sounds of Resistance: Race, Rhythm, Rhyme, and Revolution (3): Regular; CS-02; Fall 2018  
Examination of intersection of music and freedom movements within and across communities of color. Comparative exploration of how music reflects and shapes social struggle, flowers out of people's interconnected histories and cultures, promotes both critical consciousness and collective action, and serves as a multifaceted weapon in the fight for human liberation. Studies music and social movements in both domestic and global/transnational terms.