NEW

**ANTH 450**  Archaeology of Ritual and Religion (3); Regular; C-02; Fall 2012  40420  
Prerequisite:  Upper division standing or consent of instructor.  
Examination of religion and ritual on a global level from prehistory to the present, from an archaeological perspective. (Plus-minus letter grade only.)

**BIOL 618**  Biology of Aging (3); Regular; C-01; Fall 2012  40421  
Prerequisites:  BIOL 350, BIOL 355, and BIOL 610 or BIOL 612; major only.  
Biological processes underlying aging. Focus on the molecular mechanisms of aging, including specific animal models of aging, age-related changes in the major physiological systems in humans. (Plus-minus letter grade only.)

**BIOL 619**  Pathophysiology (3); Regular; C-01; Fall 2012  40422  
Prerequisites:  BIOL 610 or BIOL 612; major only.  
The processes underlying disease in the major physiological systems. Focus on understanding the relationship between changes at the molecular, cellular and tissue levels and their physiological manifestations at the organ and system levels. (Plus-minus letter grade only.)

**BIOL 861**  Genome Evolution (2); Topic; C-05; Fall 2012  40423  
Prerequisite:  Graduate standing or consent of instructor; BIOL 355; major only.  
Current topics and controversies in genome evolution, including the mechanisms (how) and evolutionary dynamics (why) underlying genome structure and differences in genome structures between organisms, through critical reading of primary and secondary scientific literature.

**CSC 690**  Interactive Multimedia Application Development (3);  40424  
Regular; C-04; Fall 2012  
Prerequisites:  CSC 340 with grade of C or better; or consent of instructor.  
Basics of multimedia data formats and algorithms to build applications using non-standard interfaces such as game controllers and multi-touch surfaces. (Plus-minus letter grade only.)

**CSC 746**  High-Performance Computing (3); Regular; C-04; Fall 2012  40425  
Prerequisites:  CSC 656 with grade of B or better; or consent of instructor.  

**CSC 890**  Cloud and Distributed Computing (3); Topic; C-05; Fall 2012  40426  
Prerequisites:  Graduate standing; CSC 415 with grade of C or better; or consent of instructor.  
Introduction to important concepts including public/private/community cloud, infrastructure as a service, platform as a service, and software as a service; introduction to virtualization at the level of server, network, storage and operating system. Hands-on experience with public clouds and open source platforms for cloud computing. (Plus-minus letter grade only.)
Course ID is link to course proposal document

**CWL 515**  The Uncanny in World Literature (3); Regular; C-02; Fall 2012  40428  
Prerequisites: ENG 214 or equivalent; CWL 400 recommended.  
Examination of the uncanny-- the aesthetic quality of literary texts that provokes eerie, unsettling reactions-- in works from a variety of places and times. Focus on the living dead, doppelgangers, déjà vu, repetition, and automatism.

**CWL 815**  Theory and the Premodern Text (3); Topic; C-05; Fall 2012  40429  
Prerequisite: CWL 800.  
Connections and intersections between modern theory and premodern literary theory and practices, including comparative theories of authorship, interpretation and audience; premodern foundations of postmodern theory; the interventions of postcolonial medieval criticism in postcolonial theory; and medievalism in the postmodern imagination.

**DAI 480**  International Workshop in Design (2); CEL; C-78; Summer 2012  
Prerequisites: Upper division standing or consent of instructor; major only.  
Collaborative atelier in the area of design with SF State and a university in an international venue. Involves travel as a group for two weeks to selected countries outside the U.S. May be repeated for a total of 6 units. (Plus-minus letter grade only.)

**ENG 889**  Integrated Studies in Linguistics (3); Regular; C-05; Fall 2012  40430  
Prerequisite: Graduate standing.  
Integration of theoretical and practical material acquired in the Linguistic M.A. program, providing students support and guidance for culminating research projects, and direction in professional development, including preparing for conferences/publication, and applying to PhD. programs. (CR/NC grading only.)

**ENGR 820**  Energy Resources and Sustainability (3); Regular; C-05; Fall 2012  40436  
Prerequisites: Graduate standing or consent of instructor; ENGR 303.  
Overview of conventional and renewable energy resources. Energy conversion processes, flow pathways, and end uses. Environmental impacts, sustainability, and economics of energy systems.

**ENGR 869**  Robotics and Haptics (3); Regular; C-05; Fall 2012  40437  
Prerequisite: Graduate standing or consent of instructor.  
Kinematics and dynamics of robotic manipulators, design and control of force-feedback devices and haptic interfaces. (Plus-minus letter grade only.)

**GEOL 795**  Hydrogeology Expedition (1); Topic; C-04; Fall 2012  40438  
Prerequisites: Senior or graduate standing; GEOL 475 or GEOL 775; or consent of instructor.  
Groundwater-age dating techniques to identify paleoclimate signals in groundwater toward understanding groundwater sustainability. Travel to the North China Plain aquifer, near Beijing, China where students participate in a field survey by collecting groundwater samples for isotopic analysis and participate 10 times in a training workshop with Chinese hydrogeology students. (Plus-minus letter grade only.)

**GEOL 795**  Global Tectonics (3); Topic; C-04; Fall 2012  40439  
Prerequisites: Graduate standing; GEOL 430; or consent of instructor.  
Survey of global tectonic features: the architecture of the Earth's crust; regional assembling of structural or deformational features and their relationship, origin, and evolution. The plate tectonic cycle: rifting, passive margins, sea-floor spreading, subduction zones, and collisions.
HUM 375  Biography of a City: Venice (3); Topic; C-02; Fall 2012  40440
Prerequisite:  ENG 214 or equivalent.
Exploration of Venice, Italy's most unique and visited city. Focus on all its dimensions-architectonic, historical, artistic, social, literary, cinematic and musical.

KIN 510  Sport, Movement, and Screen Culture (3); C-02; Fall 2012  40441
Prerequisite:  Upper division standing or consent of instructor; ENG 214.
Examination of how the cultural, political, psychological, and historical dimensions of sport and other forms of movement are portrayed in feature films and documentaries. Presentations of identify, power, performance, social justice, and the body are also analyzed.

MATH 50  Preparatory Mathematics for Pathways Courses (4);  40442
Regular; C-02; Fall 2012
Prerequisite:  ELM scores below 50; restricted to students who have committed to take pathway course such as STAT way.
Treatment of selected key topics from two remedial mathematics courses MATH 60 and MATH 70. Some selections are tailored to the needs of the subsequent pathway course, while other selections are meant to round out the students’ quantitative literacy. (Plus-minus letter grade only.)

Revised

ETHS 380  Coloring Queer  40369
Current description:  Interdisciplinary examination of queers of color framing theory, history and discourse, and the expressions and intersections of difference based on sexual orientation, race, class, gender, and nationality. Specific focus on racism, interracial dating, transracial adoption, fetishes, and other coloring queer phenomena. (Cross listed with SXS 380. May not be repeated under alternate prefix.)

Revised:  Interdisciplinary examination of the experience of queers of color in the U.S. through anthropology, sociology, history, literature, and cultural studies. Specific focus on racism, homophobia, transphobia, and intersectionality. (Cross listed with SXS 380. May not be repeated under alternate prefix.)