

# STANFORD INTRODUCTORY SEMINARS

*Participating Faculty:* Over 200 faculty from more than 60 departments take part in Introductory Seminars programs. See faculty listings in each department's section of this bulletin for pertinent information.

*SIS Offices:* 4th Floor, Sweet Hall, 590 Escondido Mall

*Mail Code:* 94305-3091

*Phone:* (650) 723-4338

*Email:* fsp@vpue.stanford.edu

*Web Site:* <http://introsems.stanford.edu/>

Stanford Introductory Seminars provide opportunities for first- and second-year students to work closely with faculty in an intimate and focused setting. These courses aim to intensify the intellectual experience of the freshman and sophomore years by allowing students to work with faculty members in a small-group setting; introducing students to the variety and richness of academic topics, methods, and issues which lie at the core of particular disciplines; and fostering a spirit of mentorship between faculty and students. See "Freshman and Sophomore Programs" in the Undergraduate Education section of this bulletin for more information.

## COURSES

### SOPHOMORE COLLEGE

Sophomore College offers sophomores the opportunity to study intensively in small groups with Stanford faculty for several weeks before the beginning of Autumn Quarter. It is a chance for students to immerse themselves in a subject and collaborate with peers, upper-class sophomore college assistants, and faculty in constructing a community of scholars. Students are also encouraged to explore the full range of Stanford's academic resources in workshops and individually. At its best, Sophomore College is characterized by an atmosphere of intense academic exploration. Each Sophomore College course enrolls 12 to 14 students, who live together in a Stanford residence and receive 2 units of academic credit for the work done in the course. Eligible students have been enrolled for no more than three academic quarters, have completed at least 36 units of academic work by the end of the Spring Quarter preceding the college, are sophomores in the Autumn Quarter during which the college is offered, and are in good academic standing. Students must also have an on-campus housing assignment for the ensuing academic year. Transfer students are not eligible. Admitted students who are found to have academic standing problems after the completion of Spring Quarter may have their admission revoked. Tuition, room, the remainder of board costs, books, and class-required travel are covered by Sophomore College. Each student pays a \$500 fee toward the cost of board; this fee is included in the Autumn Quarter University bill. Students are also responsible for travel to campus, phone, network activation, and other personal expenses. Courses are announced in March; applications are due in April. For more information or to apply, see <http://soco.stanford.edu/>. September 2005 courses are listed here.

### ANTHROPOLOGICAL SCIENCES

**ANTHSCI 10SC. Darwin, Evolution, and Galápagos**—Lessons from the study of flora and fauna in Galápagos from Darwin's time to today. Adaptation, sexual selection, speciation, and adaptive radiation. The challenges the Galápagos Islands pose for conservation.

*2 units, Aut (Durham)*

### BIOLOGICAL SCIENCES

**BIOSCI 10SC. Natural History, Marine Biology, and Research**—The biology of Monterey Bay and the coastal mountains and redwood forests of Big Sur. Literary, artistic, and political history. Topics: conservation, sanctuary, and stewardship of the oceans and coastal lands. Meetings with conservationists, authors, environmentalists, politicians, land-use planners, lawyers, scientists, and educators.

*2 units, Aut (Thompson)*

### CIVIL AND ENVIRONMENTAL ENGINEERING

**CEE 10SC. Green Buildings**—What makes a building green and why the study of such buildings is an important, emerging field. Greenness has to do with efficient use of energy, water, and construction materials to provide healthful and enjoyable spaces in which to live and work. Focus is on energy efficiency and architectural features that enable a building to provide a significant fraction of its own heating, cooling, and electrical needs.

*2 units, Aut (Masters)*

### COMPUTER SCIENCE

**CS 10SC. The Intellectual Excitement of Computer Science**—Intellectual tradition of computer science. Topics include analysis of algorithms, computability, cryptography, hardware design, and artificial intelligence.

*2 units, Aut (Roberts)*

### DRAMA

**DRAMA 10SC. Social Protest Drama and the Politics of Hip Hop Performance**—Theater as a social weapon. Focus is on the 60s and 70s. How performances were shaped by their time and whether they transcend their historic context. Chicano and Black social protest theater. Past versus contemporary uses of social protest performance. Potential of Hip Hop performance as mechanism of social protest. Assignments include creating a social protest manifesto and a performance piece.

*2 units, Aut (H. Elam)*

### ECONOMICS

**ECON 11SC. The Reform of Social Security**—The largest U.S. federal government program in the context of individual and national saving, its current structure, and reform alternatives. Demographics, finance, investments, taxes, labor supply, and the life-cycle model of consumption and saving. The rate of return on private equities, the performance of mutual funds, and the impact of fertility, mortality, productivity growth, and immigration.

*2 units, Aut (Shoven)*

### ENGLISH

**ENGLISH 13SC. Learning Theater: From Audience to Critic at the Oregon Shakespeare Festival**—Ten days and six plays at the Oregon Shakespeare Festival in Ashland. Details of the plays, interpretation, production, and acting, and their value as entertainment and challenge.

*2 units, Aut (Friedlander, Paulson)*

**ENGLISH 15SC. Mixed Race in the New Millennium**—Current controversies over mixed race identification. Political and aesthetic implications. Literary and pop cultural images in literature, performance, the Internet, and visual media. Legal leverage and national recognition gained in the last decade. Organizations, web sites, and affinity and advocacy groups, and their rhetoric and graphics.

*2 units, Aut (M. Elam)*

### ETHICS IN SOCIETY

**ETHICSOC 10SC. The Meaning of Life: Moral and Spiritual Inquiry through Literature**—Short novels and plays as the basis for reflection on ethical values and life's purpose. Why are people here? What is the balance between work and personal life? What can death teach about life? What is the meaning of success, and the nature of love? How free are people to seek their destinies? What obligations does one have to others?

*2 units, Aut (McLennan)*

**GEOLOGICAL AND ENVIRONMENTAL SCIENCES**

**GES 12SC. Environmental and Geological Field Studies in the Rocky Mountains**—Geologic origin from three billion years ago to the recent, paleoclimatology and glacial history, long- and short-term carbon cycle and global climate change, and environmental issues related to changing land-use patterns and increased demand for natural resources. Small groups analyze data to prepare reports and maps.

2 units, Aut (*Chamberlain*)

**GERMAN LITERATURE**

**GERLIT 12SC. Ghost Stories: Why the Dead Return and What They Want from Us**—Anxiety about mortality and wisdom about the cultural place of the past in the enduring genre of the ghost story from classical literature to popular film. Memory and regret, mourning and forgetting. Classic authors such as Hoffmann, Poe, James, Joyce, and Ibsen, and more recent authors such as Paul Auster, Marie Darrieussecq, Catherine Lim, and Toni Morrison.

2 units, Aut (*Berman*)

**HISTORY**

**HISTORY 14SC. Homelessness in America**—The historical, social science, social commentary, and policy literature on poverty and homelessness. How students can make societal contributions through public service component at a local shelter for homeless families.

2 units, Aut (*Camarillo*)

**HISTORY 15SC. Early Russian Culture: Belief and Lived Experience**—Russia, from 1400 to 1700, as a non-secular society. Sources include icons, frescoes, saints' lives, handbooks of social ethics, political theory, court cases, and folk tales and art. The difficulty of studying lived experience. Medieval worldviews, the place of religion in premodern life, and the tensions between official culture and actual practice.

2 units, Aut (*Kollmann*)

**HISTORY 16SC. Spinning the Western Past: Washington, D.C., and the Manufacturing of American Memory**—The capital's status as repository of American memory and factory for an official version of the American past; its peculiar relation to the American West. The creation, meanings, contestations, and implications of this official mobilization of history. Projects using the new Museum of the American Indian, the Smithsonian, paintings and sculptures at the Capitol and other public buildings, and interviews.

2 units, Aut (*White*)

**MECHANICAL ENGINEERING**

**ME 11SC. The Art and Science of Measuring Fluid Flows**—The roles of fluid flows in natural systems such as swimming protozoa and planet-forming nebulae, and technologies such as biomolecular assay devices and jet engines. The analytical background for fluid sciences. Phenomena such as shock waves and vortex formation that create flow patterns while challenging engineers. Visualization and measurement techniques to obtain full-field flow pattern information. The physics behind these technologies. Field trips; lab work.

2 units, Aut (*Eaton*)

**MUSIC**

**MUSIC 10SC. Sound, Digital Sound, and Massive Sound Media**—Principles of sound production, hearing, and digital audio. Given the use of audio streaming and compression, and reliance on loudspeakers for the consumption of sound, are all aspects of sound being preserved? Team assignments in sound analysis, music recording, and instrument, and an individual topic for a web-based report.

2 units, Aut (*Chafe*)

**POLITICAL SCIENCE**

**POLISCI 10SC. American Foreign Policy in the 21st Century**—The substance of U.S. foreign policy, and the political considerations that influence the making and conduct of American diplomacy. Topics include the prospects for conflict and cooperation among the great powers, regional

security, peacekeeping and peacemaking, international terrorism, the proliferation of weapons of mass destruction, the global economy, and the domestic politics of U.S. foreign policy.

2 units, Aut (*Blacker*)

**POLISCI 12SC. Race, Ethnicity, and the Future of California**—California is now the most racially and ethnically diverse state in the nation. The challenges facing Californians in light of population trends. How has public policy responded? Focus is on population growth, education, immigration, political participation, and economic growth. Preparation of a policy proposal to the California governor.

2 units, Aut (*Fraga*)

**POLISCI 15SC. Constitutionalism**—How does a constitution differ from other law? How are written constitutions different from unwritten constitutions? What are the functions performed by constitutions in different countries? What is the role of judicial review? Materials organized historically and comparatively, and include the English and S. African constitutions, and the ongoing EU constitutional convention.

2 units, Aut (*Casper*)

**POLISCI 16SC. How European Empires Shaped the Modern World**—How the postcolonial world is influenced by European occupation. Why were Europeans so extroverted? How did Europe govern overseas territories for so long? The movement to political independence. Moral evaluation of the colonial project. Primary documents, historical overviews, and works analyzing imperialism, colonialism, and nationalism.

2 units, Aut (*Abernethy*)

**RELIGIOUS STUDIES**

**RELIGST 12SC. Just Who Are We? Science Fiction and the Futuristic Self**—In alternate worlds, souls migrate, minds enter machines, and machines become human: the ethical implications of such possibilities. Changing perceptions of the self and what they mean for allocating the rights of personhood. Sources include Isaac Asimov, Frank Herbert, Orson Scott Card, Sheri Tepper, Greg Bear, and C. J. Cherryh. Literature, film, and philosophy.

2 units, Aut (*Gelber*)

**FRESHMAN SEMINARS AND SOPHOMORE SEMINARS AND DIALOGUES**

Freshman and Sophomore Seminars and Dialogues are offered in many disciplines throughout the academic year. Freshman preference seminars are given for 3-4 units to a maximum of 16 students, and generally meet twice weekly. Although preference for enrollment is given to freshmen, sophomores and first-year transfer students may participate on a space-available basis and with the consent of the instructor. Sophomore preference seminars and dialogues, similarly, give preference to sophomores and first-year transfer students, but freshmen may participate on a space-available basis and with the consent of the instructor. Sophomore preference seminars are given for 3-5 units to a maximum of 14 students, while sophomore preference dialogues take the form of a directed reading, and are given for 1-2 units to a maximum of 5 students.

All seminars require a brief application. See the *Time Schedule*, the Stanford Introductory Seminars course catalogue published each September, or <http://introsems.stanford.edu/>. Due dates for 2005-06 applications for both freshman and sophomore preference courses are: Autumn Quarter, 5 p.m., September 23; Winter Quarter, noon, December 9; Spring Quarter, noon, March 17.

For course descriptions, see course listings in the teaching department section of this bulletin. F = preference to freshmen; S = preference to sophomores; Dial = dialogue; Sem = Seminar.

**AERONAUTICS AND ASTRONAUTICS**

**AA 113N. Structures: Why Things Don't (and Sometimes Do) Fall Down**—(F,Sem) GER:DB-EngrAppSci

3 units, Win (*Springer*)

**AA 115N. The Global Positioning System: Where on Earth are We, and What Time is It?**—(F,Sem) GER:DB-EngrAppSci

3 units, Aut (Enge)

**AA 117N. The Science and Engineering of Sports Equipment**—(F,Sem) GER:DB-EngrAppSci

3 units, Aut (Kenny, Springer)

## **AMERICAN STUDIES**

**AMSTUD 68N. Mark Twain and American Culture**—(F,Sem) GER:DB-Hum

4 units, Aut (Fishkin)

**AMSTUD 114Q. Visions of the 1960s**—(S,Sem) GER:DB-Hum, EC-AmerCul

5 units, Aut (Gillam)

## **ANESTHESIA**

**ANES 113Q. Disease-Oriented Approach to Human Physiology**—(S,Sem)

3 units, Spr (Rosenthal)

## **ANTHROPOLOGICAL SCIENCES**

**ANTHSCI 50Q. Language and the Brain**—(S,Sem)

5 units, Spr (Fox)

## **APPLIED PHYSICS**

**APPPHYS 79Q. Energy Choices for the 21st Century**—(S,Sem)

3 units, Aut (Fox, Geballe)

## **ART AND ART HISTORY**

**ARTHIST 61Q. Comics: A Lively Art**—(S,Sem)

4 units, Aut (Bukatman)

**FILMSTUD 10Q. Comics: A Lively Art**—(S,Sem)

5 units, Win (Bukatman)

## **BIOCHEMISTRY**

**BIOC 118Q. Genomics, Bioinformatics, and Medicine**—(S,Sem) GER:DB-EngrAppSci

3 units, Spr (Brutlag)

## **BIOENGINEERING**

**BIOE 70Q. Medical Device Innovation**—(S,Sem)

3 units, Spr (Doshi, Mandato)

## **BIOLOGICAL SCIENCES**

**BIOSCI 6N. Climate Change: Drivers, Impacts, and Solutions**—(F,Sem) GER:DB-NatSci

3 units, Win (Field)

**BIOSCI 10N. Light and Life**—(F,Sem)

3 units, Aut (Elrad)

**BIOSCI 13N. Environmental Problems and Policy**—(F,Sem) GER:DB-NatSci

3 units, Spr (Ehrlich)

**BIOSCI 16N. Island Ecology**—(F,Sem) GER:DB-NatSci

3 units, Spr (Vitousek)

**BIOSCI 17N. Light, Pigments, and Organisms**—(F,Sem) GER:DB-NatSci

3 units, Win (Elrad, Zare)

**BIOSCI 19N. Diversity, Gender, and Sexuality**—(F,Sem) GER:DB-NatSci, EC-Gender

3 units, Win (Roughgarden)

**BIOSCI 22N. Infection, Immunity, and Global Health**—(S,Sem) GER:DB-NatSci

3 units, Spr (Jones)

**BIOSCI 26N. Maintenance of the Genome**—(F,Sem) GER:DB-NatSci

3 units, Spr (Hanawalt)

**BIOSCI 28N. Molecular Basis of Cancer**—(F,Sem) GER:DB-NatSci

3 units, Win (Fang)

**BIOSCI 31Q. Ants: Behavior, Ecology, and Evolution**—(S,Sem)

3 units, Spr (Gordon)

**BIOSCI 35N. Nobel Prize Winning Research in Biology and Medicine**—(F,Sem)

3 units, Spr (Shen)

**BIOSCI 106Q. The Heart of the Matter**—(S,Sem) GER:DB-NatSci

3 units, Win (Myers, Simoni)

## **CHEMICAL ENGINEERING**

**CHEMENG 60Q. Environmental Regulation and Policy**—(S,Sem) GER:DB-EngrAppSci

3 units, Aut (Robertson, Libicki)

**CHEMENG 70Q. Masters of Disaster**—(S,Sem) GER:DB-EngrAppSci

3 units, Aut (Robertson, Moalli)

## **CHEMISTRY**

**CHEM 17N. Light, Pigments, and Organisms**—(F,Sem) GER:DB-NatSci

3 units, Win (Elrad, Zare)

**CHEM 22N. Naturally Dangerous**—(F,Sem)

2 units, Aut, Spr (Collman)

**CHEM 23N. Chemistry and Biology in Biotechnology**—(F,Sem) GER:DB-NatSci

3 units, Aut (Khosla)

**CHEM 24N. Nutrition and History**—(F,Sem)

2 units, Spr (Huestis)

**CHEM 27N. Lasers: The Light Fantastic**—(F,Sem) GER:DB-NatSci

3 units, Win (Moerner)

## **CIVIL AND ENVIRONMENTAL ENGINEERING**

**CEE 31Q. Accessing Architecture Through Drawing**—(S,Sem) GER:DB-EngrAppSci

4 units, Aut (Walters)

**CEE 46Q. Fail Your Way to Success**—(S,Sem) GER:DB-EngrAppSci

3 units, Spr (Clough)

**CEE 51Q. Pangea, Germs, and Arsenic**—(S,Sem) GER:DB-NatSci

3 units, Win (Brown, Spormann, Ernst)

**CEE 80N. The Art of Structural Engineering**—(F,Sem) GER:DB-EngrAppSci

4 units, Win (Billington)

## **CLASSICS ART/ARCHAEOLOGY**

**CLASSART 21Q. Eight Great Archaeological Sites in Europe**—(S,Sem) GER:DB-Hum

3-5 units, Aut (Shanks)

## **CLASSICS GENERAL**

**CLASSGEN 3N. Introduction to the Writing Systems of Ancient Egypt**—(F,Sem)

3-4 units, Spr (Manning)

**CLASSGEN 22N. Technologies of Civilization: Writing, Number, Money**—(F,Sem) GER:DB-Hum

3-4 units, Spr (Netz)

**CLASSGEN 27N. The Invention of Travel, Ancient and Modern**—(F,Sem) GER:DB-Hum

4-5 units, Win (Ceserani)



**CLASSGEN 33N. Women Poets in Antiquity**—(F,Sem)  
3-5 units, Win (*Peponi*)

**CLASSGEN 50N. Journeys of the Mind**—(F,Sem) GER:DB-Hum  
3-4 units, Spr (*Nightingale*)

### CLASSICS/HISTORY

**CLASSHIS 21N. Roman Scandals: Representations and Perceptions of Rome**—(F,Sem) GER:DB-Hum  
3-5 units, Win (*Braund*)

### COMMUNICATION

**COMM 118Q. Theories of Film Practice**—(S,Sem) WRITE-2  
4 units, Win (*Breitrose*)

**COMM 123N. Documentary Film: Voice and Vision**—(F,Sem)  
4 units, Aut (*Krawitz*)

**COMM 123Q. Autobiographical Storytelling in Documentary Film**—(S,Dial)  
2 units, Win (*Krawitz*)

### COMPARATIVE LITERATURE

**COMPLIT 10N. Shakespeare and Performance**—(F,Sem) GER:DB-Hum, EC-Gender  
3 units, Spr (*Parker*)

**COMPLIT 20N. Travel: Real and Imagined Worlds**—(F,Sem) GER:DB-Hum  
3-4 units, Win (*Boyi*)

**COMPLIT 11Q. Shakespeare, Playing, Gender**—(S,Sem) GER:DB-Hum, EC-Gender  
3 units, Win (*Parker*)

**COMPLIT 40N. Reading Across Literature**—(F,Sem) GER:DB-Hum, EC-GlobalCom  
5 units, Spr (*Palumbo-Liu*)

**COMPLIT 41Q. Ethnicity and Literature**—(S,Sem) GER:DB-Hum, EC-AmerCul  
3-5 units, Aut (*Palumbo-Liu*)

**COMPLIT 50N. Journeys of the Mind**—(F,Sem) GER:DB-Hum  
3-4 units, Spr (*Nightingale*)

### COMPARATIVE MEDICINE

**COMP MED 81N. Comparative Anatomy and Physiology of Mammals**—(F,Sem)  
3 units, Win (*Bouley*)

**COMP MED 85N. Animal Models in Biomedical Research**—(F,Sem)  
3 units, Aut (*Green, Tolwani*)

### COMPUTER SCIENCE

**CS 26N. Motion Planning for Robots, Digital Actors, and Other Moving Objects**—(F,Sem) GER:DB-EngrAppSci  
3 units, Spr (*Latombe*)

**CS 54N. Great Ideas in Computer Science**—(F,Sem) GER:DB-EngrAppSci  
3 units, Win (*Roberts*)

**CS 55N. Computer and Information Security**—(F,Sem) GER:DB-EngrAppSci  
3 units, Aut (*Boneh*)

**CS 73N. Business on the Information Highways**—(F,Sem)  
3 units, Spr (*Wiederhold, Barr, Tessler*)

**CS 74N. Digital Dilemmas**—(F,Sem) GER:DB-EngrAppSci  
3 units, Aut (*Dill*)

### CULTURAL AND SOCIAL ANTHROPOLOGY

**CASA 9N. The Anthropology of Food**—(F,Sem)  
3-4 units, Spr (*Gupta*)

### DRAMA

**DRAMA 11N. The Dancing Couple as a Lens on American Culture, 1890-1950**—(F,Sem)  
4 units, Aut (*Ross, Powers*)

**DRAMA 17N. From Inside the First World: Women of Color Playwrights Re-mapping the U.S.**—(F,Sem) GER:DB-Hum, EC-AmerCul  
3 units, Aut (*Moraga*)

**DRAMA 180Q. Noam Chomsky: The Drama of Resistance**—(S,Sem) GER:DB-Hum  
3 units, Win (*Rehm*)

**DRAMA 188Q. From Brecht to Müller: German Theater and Performance since World War II**—(S,Sem)  
3-5 units, Aut (*Weber*)

**DRAMA 189Q. Mapping and Wrapping the Body**—(S,Sem) GER:DB-Hum  
3 units, Aut (*Eddelman*)

### ECONOMICS

**ECON 11N. Understanding the Welfare System**—(F,Sem)  
2 units, Aut (*MaCurdy*)

**ECON 93Q. Global Capital Markets**—(S,Sem)  
3 units, Win (*Marotta*)

### EDUCATION

**EDUC 92Q. Leadership, Ethics, and the Law**—(S,Sem)  
3-5 units, Aut (*Davis*)

**EDUC 95Q. Exploring School Reforms**—(S,Dial)  
2 units, Win (*Tyack*)

### ELECTRICAL ENGINEERING

**EE 14N. Things about Stuff**—(F,Sem) GER:DB-EngrAppSci  
3 units, Aut (*Lee*)

**EE 15N. The Life of an Engineering Project**—(F,Sem) GER:DB-EngrAppSci  
3 units, Win (*Goldsmith, Le*)

**EE 16N. From Science Fiction to Science and Engineering**—(F,Sem) GER:DB-EngrAppSci  
3 units, Aut (*Vuckovic*)

**EE 17N. Engineering the Micro and Nano Worlds: From Chips to Genes**—(F,Sem) GER:DB-EngrAppSci  
3 units, Spr (*Maluf, Pease*)

### ENGLISH

**ENGLISH 54N. Orwell: Literature and Political Engagement**—(F,Sem) GER:DB-Hum  
3 units, Spr (*Woloch*)

**ENGLISH 56N. Mixed Race in the New Millennium**—(F,Sem) GER:DB-Hum  
3 units, Aut (*H. Elam*)

**ENGLISH 65N. Contemporary Women Fiction Writers**—(F,Sem) GER:DB-Hum  
3 units, Spr (*Tallent*)

**ENGLISH 68N. Mark Twain and American Culture**—(F,Sem) GER:DB-Hum  
4 units, Aut (*Fishkin*)

**ENGLISH 70N. Shakespeare on Film**—(F,Sem) GER:DB-Hum  
3 units, Win (*Riggs*)

**ENGLISH 73N. Conflict and Resolution in the Novel**—(F,Sem)  
GER:DB-Hum  
3 units, Win (*Shloss*)

**ENGLISH 82Q. Shakespeare's Plays**—(S,Sem) GER:DB-Hum  
5 units, Aut (*Rebholz*)

**ENGLISH 83Q. Playwriting: A Workshop in Craft**—(S,Sem) GER:  
DB-Hum  
4 units, Aut (*DiPirro*)

**ENGLISH 86N. Wicked Witches of the West and their Children:  
Dangerous Women in Greek and Shakespearean Tragedy**—(F,Sem)  
GER:DB-Hum, EC-Gender  
3 units, Aut (*Friedlander*)

**ENGLISH 87Q. The Graphic Novel: Literature Lite?**—(S,Sem)  
GER:DB-Hum  
5 units, Win (*Lunsford*)

## **FRENCH GENERAL**

**FRENGEN 20N. Travel: Real and Imagined Worlds**—(F,Sem) GER:  
DB-Hum  
3-4 units, Win (*Boyi*)

**FRENGEN 47Q. Albert Camus: Novelist and Philosopher**—(F,Sem)  
GER:DB-Hum  
4 units, Spr (*Apostolidès*)

**FRENGEN 190Q. Parisian Cultures of the 19th and Early 20th  
Centuries**—(S,Sem) GER:DB-Hum  
4 units, Spr (*Bertrand*)

## **GENETICS**

**GENE 104Q. Law and the Biosciences**—(S,Sem) WRITE-2  
3 units, Spr (*Greely*)

**GENE 106Q. The Heart of the Matter**—(S,Sem) GER:DB-NatSci  
3 units, Win (*Myers, Simoni*)

**GENE 109Q. Genomics: A Technical and Cultural Revolution**—  
(S,Sem)  
3 units, Win (*Altman*)

## **GEOLOGICAL AND ENVIRONMENTAL SCIENCES**

**GES 43N. Environmental Problems**—(F,Sem) GER:DB-NatSci  
3 units, Win (*Loague*)

**GES 45N. The Ocean Around Us**—(F,Sem)  
3 units, Aut (*Paytan*)

**GES 48N. Volcanoes of the Eastern Sierra Nevada**—(F,Sem)  
2 units, Spr (*Mahood*)

**GES 50Q. The Coastal Zone Environment**—(S,Sem) GER:DB-NatSci  
3 units, Win (*Ingle*)

**GES 51Q. Pangea, Germs, and Arsenic**—(S,Sem) GER:DB-NatSci  
3 units, Win (*Brown, Spormann, Ernst*)

**GES 52Q. Geologic Development of California**—(S,Sem) GER:  
DB-NatSci  
5 units, Spr (*Ernst*)

**GES 53Q. In the Beginning: Theories of the Origin of the Earth,  
Solar System, and Universe**—(S,Sem) GER:DB-NatSci  
3 units, Win (*McWilliams*)

**GES 54Q. California Landforms and Plate Tectonics**—(S,Sem)  
GER:DB-NatSci  
3 units, Aut (*Miller*)

**GES 55Q. The California Gold Rush: Geologic Background and  
Environmental Impact**—(S,Sem) GER:DB-NatSci, WRITE-2  
3 units, Spr (*Bird*)

**GES 56Q. Changes in the Coastal Ocean: The View From Monterey  
and San Francisco Bays**—(S,Sem) GER:DB-NatSci  
3 units, Spr (*Dunbar*)

**GES 57Q. How to Critically Read and Discuss Scientific Litera-  
ture**—(S,Sem)  
3 units, Win (*Paytan*)

## **GEOPHYSICS**

**GEOPHYS 30Q. The 1906 San Francisco Earthquake**—(S,Dial)  
2 units, Win (*Beroza*)

**GEOPHYS 60Q. Man versus Nature: Coping with Disasters Using  
Space Technology**—(S,Sem) GER:DB-EngrAppSci  
3 units, Aut (*Zebker*)

## **GERMAN GENERAL**

**GERGEN 104Q. Resistance Writings in Nazi Germany**—(S,Sem)  
GER:DB-Hum  
3 units, Aut (*Bernhardt*)

**GERGEN 121N. Memory and the Modernist Novel**—(F,Sem) GER:  
DB-Hum  
4 units, Spr (*Douvaldizi*)

**GERGEN 122N. Virtue and Terror: Kant, Rousseau, and the French  
Revolution**—(F,Sem)  
4-5 units, Win (*Strum*)

## **GERMAN LITERATURE**

**GERLIT 123N. The Brothers Grimm and Their Fairy Tales**—(F,Sem)  
GER:DB-Hum, WIM  
4 units, Spr (*Robinson*)

**GERLIT 133Q. Modernism and Fiction**—(S,Sem) GER:DB-Hum  
4 units, Aut (*Berman*)

## **HEALTH RESEARCH AND POLICY**

**HRP 89Q. Introduction to Crosscultural Issues in Medicine**—  
(S,Sem)  
3 units, Win (*Corso*)

## **HISTORY**

**HISTORY 20N. Early Modern European Views of Eastern Europe and  
Russia**—(F,Sem) GER:DB-Hum, EC-GlobalCom, WRITE-2  
5 units, Spr (*Kollmann*)

**HISTORY 30N. Fiction and English Society**—(F,Sem)  
4 units, Win (*Stansky*)

**HISTORY 32N. The English Revolution**—(F,Sem)  
4-5 units, Spr (*Como*)

**HISTORY 36N. Gay Autobiography**—(F,Sem) GER:DB-Hum, EC-  
Gender  
4 units, Spr (*Robinson*)

**HISTORY 44N. The History of Women and Gender in Science**—  
(F,Sem) GER:DB-Hum, EC-Gender  
4 units, Win (*Schiebinger*)

**HISTORY 48Q. South Africa: Contested Transitions**—(S,Sem) GER:  
DB-SocSci, EC-GlobalCom  
3 units, Win (*Samoff*)

**HISTORY 49N. The Slave Trade**—(F,Sem) GER:DB-SocSci, EC-  
GlobalCom  
4 units, Win (*Roberts*)

**HISTORY 53N. Reflections on the American Condition: American  
History through Literature**—(F,Sem) GER:DB-Hum  
4 units, Aut (*Kennedy*)

**HISTORY 62N. The Atomic Bomb in Policy and History**—(F,Sem)

GER:DB-SocSci

4-5 units, Win (Bernstein)

**HISTORY 86Q. Why They Do or Do Not Hate Us: Political Islam and the New Global Economy**—(S,Dial)

2 units, Aut (Beinin)

**HISTORY 90Q. Buddhist Political and Social Theory**—(S,Sem) GER:

DB-SocSci, EC-GlobalCom

4-5 units, Aut (Mancall)

## HUMAN BIOLOGY

**HUMBIO 87Q. Women and Aging**—(S,Sem) GER:EC-Gender

4 units, Win (Winograd)

**HUMBIO 88Q. Neuroethics: Neurotechnology, Free Will, and the Privacy of Human Thought**—(S,Sem)

3 units, Spr (Illes)

**HUMBIO 89Q. The Eye and the Implications of Vision**—(S,Sem)

3 units, Win (Marmor)

**HUMBIO 91Q. Neuroethology: The Neural Control of Behavior**—(S,Sem) GER:DB-NatSci

3 units, Aut (R. Fernald)

**HUMBIO 92Q. International Women's Health and Human Rights**—(S,Sem) GER:EC-Gender, WRITE-2

3 units, Aut (Murray)

**HUMBIO 94Q. The Nation's Health**—(S,Sem)

3 units, Aut (G. Heller)

**HUMBIO 95Q. Gender, Culture, and HIV/AIDS**—(S,Sem) GER:EC-Gender, WRITE2

4 units, Win (Brown)

**HUMBIO 96Q. The Death Penalty: Policy, Philosophy, and Controversy**—(S,Sem)

3-4 units, Spr (Abrams)

**HUMBIO 97Q. Sport, Exercise, and Health: Exploring Sports Medicine**—(S,Sem)

3 units, Spr (Matheson)

**HUMBIO 98Q. The Alien Tort Claims Act of 1789**—(S,Sem)

4 units, Aut (Rosencranz)

**HUMBIO 99Q. Becoming a Doctor: Readings from Medical School, Medical Training, Medical Practice**—(S,Sem)

3 units, Aut (Zaroff)

## ITALIAN GENERAL

**ITALGEN 41N. Imagining Italy**—(F,Sem) GER:DB-Hum

3-4 units, Win (Springer)

## JAPANESE GENERAL

**JAPANGEN 73N. Japanese Horror: The Trope of the Vengeful Ghost**—(F,Sem)

4 units, Spr (Reichert)

## LINGUISTICS

**LINGUIST 32N. Mind the Linguist!**—(F,Sem) GER:DB-SocSci

3 units, Aut (Beaver)

**LINGUIST 34N. The Language of Advertising**—(S,Sem)

3 units, Win (Sells)

**LINGUIST 47N. Languages, Dialects, Speakers**—(F,Sem) GER:DB-SocSci

3 units, Aut (Anttila)

## MANAGEMENT SCIENCE AND ENGINEERING

**MS&E 92Q. International Environmental Policy**—(S,Sem)

4 units, Win (Weyant)

**MS&E 93Q. Nuclear Weapons, Terrorism, and Energy**—(S,Sem)

GER:DB-EngrAppSci

3 units, Spr (May)

## MATERIALS SCIENCE AND ENGINEERING

**MATSCI 70N. Building the Future: Invention and Innovation with Engineering Materials**—(F,Sem) GER:DB-EngrAppSci, WRITE-2

5 units, Spr (Bravman)

**MATSCI 159Q. Japanese Companies and Japanese Society**—(S,Sem)

GER:DB-SocSci

3 units, Spr (Sinclair)

## MATHEMATICS

**MATH 80Q. Capillary Surfaces: Explored and Unexplored Territory**—(S,Sem)

3-5 units, Win (Finn)

**MATH 87Q. Mathematics of Knots, Braids, Links, and Tangles**—(S,Sem)

3 units, Spr (Brumfiel)

**MATH 88N. Mathematics and Magic Tricks**—(F,Sem)

3 units, Win (Diaconis)

**MATH 88Q. The Mathematics of the Rubik's Cube**—(S,Sem)

3 units, Win (Bump)

## MECHANICAL ENGINEERING

**ME 12N. The Jet Engine**—(F,Sem)

3 units, Win (Eaton)

**ME 13N. Designing the Human Experience**

3-5 units, Spr (Leifer)

**ME 15N. The Science and Engineering of Sports Equipment**—(F,Sem)

GER:DB-EngrAppSci

3 units, Aut (Kenny, Springer)

**ME 16N. The Science of Flames**—(F,Sem) GER:DB-EngrAppSci

3 units, Win (Mitchell)

**ME 18Q. Creative Teams and Individual Development**—(S,Sem)

GER:DB-EngrAppSci

3 units, Aut (Wilde)

**ME 19N. Robotics**—(F,Sem) GER:DB-EngrAppSci

3 units, Win (Niemeyer)

**ME 24N. Designing the Car of the Future**—(F,Sem) GER:DB-EngrAppSci

3 units, Aut (Gerdes)

## MEDICINE

**MED 70Q. Cancer and the Immune System**—(S,Sem) WRITE-2

3 units, Spr (Negrin)

**MED 88Q. Dilemmas in Current Medical Practice**—(S,Sem)

3 units, Aut (Croke, Jones)

**MED 93Q. The AIDS Epidemic: Biology, Behavior, and Global Responses**—(S,Sem)

3 units, Aut (Katzenstein)

**MED 94Q. Hormones, Health, and Disease**—(S,Sem)

3 units, Win (Feldman)

**MED 120Q. Pathophysiology and Treatment Aspects of Diseases of the Heart and Blood Vessels**—(S,Sem)

3 units, Spr (Stertzer)

**MICROBIOLOGY AND IMMUNOLOGY**

**MI 25N. Modern Plagues**—(F,Sem) WRITE-2  
3 units, Spr (Boothroyd)

**MOLECULAR AND CELLULAR PHYSIOLOGY**

**MCP 100Q. The Hippocampus as a Window to the Mind**—(S,Sem)  
3 units, Spr (Madison)

**MUSIC**

**MUSIC 11N. A View from the Podium: The Art of Conducting**—  
(F,Sem) GER:DB-Hum  
3 units, Aut (Cai)

**MUSIC 13Q. Classical Music and Politics: Western Music in Modern China**—(S,Sem) GER:DB-Hum, EC-GlobalCom  
3 units, Spr (Cai)

**MUSIC 15Q. Topics in American Music**—(S,Sem) GER:DB-Hum, EC-AmerCul  
3 units, Win (A. Cohen)

**MUSIC 16Q. Ki ho'alu: The New Renaissance of a Hawaiian Musical Tradition**—(S,Sem) GER:DB-Hum, EC-AmerCul  
3 units, Aut (Sano)

**MUSIC 17Q. Perspectives in North American Taiko**—(S,Sem) GER:DB-Hum, EC-AmerCul  
4 units, Spr (Sano, Uyechi)

**MUSIC 36Q. Shakespeare's Songbook to Purcell's Musical Theatre**—(S,Sem)  
3 units, Aut (Houle)

**NEUROSURGERY**

**NSUR 61Q. Biocomputation and Design**—(S,Sem)  
4 units, Spr (Shahidi)

**PATHOLOGY**

**PATH 103Q. Leukocyte Migration**—(S,Dial)  
1 unit, Aut (Michie)

**PATH 105Q. Final Analysis: The Autopsy as a Tool of Medical Inquiry**—(F, Sem)  
3 units, Spr (Regula)

**PEDIATRICS**

**PEDS 80Q. Growth: A Measure of Health and Disease in Individuals and Societies**—(S,Sem)  
3-5 units, Aut (Wilson)

**PEDS 82Q. Impact of Molecular Biology and Genetics on the Practice of Medicine**—(S,Sem)  
3 units, Aut (Fechner)

**PEDS 111Q. Issues of Race and Ethnicity in the Health of Children**—(S,Sem)  
3-4 units, Aut (Burgos)

**PETROLEUM ENGINEERING**

**PETENG 110Q. Technology in the Greenhouse: Options for Reducing Greenhouse Emissions from Energy Use**—(S,Sem) GER:DB-EngrAppSci  
3 units, Spr (Orr)

**PHILOSOPHY**

**PHIL 12N. Being at Home as an Ethical Concept**—(F,Sem) GER:DB-Hum  
3 units, Aut (Moravcsik)

**PHIL 13N. What is Truth?**—(F,Sem) GER:DB-Hum  
3 units, Spr (Mints)

**PHIL 15N. Freedom, Community, and Morality**—(F,Sem) GER:DB-Hum  
3 units, Win (Friedman)

**PHIL 16N. Values and Objectivity**—(F,Sem) GER:DB-Hum  
3 units, Win (Ryckman)

**PHYSICS**

**PHYSICS 11N. The Basic Rules of Nature**—(F,Sem) GER:DB-NatSci  
3 units, Aut (Shenker)

**PHYSICS 45N. Advanced Topics in Light and Heat**—(F,Sem)  
1 unit, Aut (Greven)

**PHYSICS 63N. Applications of Electromagnetism**—(F,Sem)  
1 unit, Win (Kapitulnik)

**PHYSICS 80N. The Technical Aspects of Photography**—(F,Sem)  
3 units, Win (Osheroff)

**PHYSICS 83N. Physics in the 21st Century**—(F,Sem) GER:DB-NatSci  
3 units, Win (Dimopoulos)

**PHYSICS 87N. The Physics of One: Nanoscale Science and Technology**—(F,Sem)  
3 units, Aut (Manoharan)

**POLITICAL SCIENCE**

**POLISCI 15N. Explaining Ethnic Violence**—(F,Sem)  
5 units, Spr (Fearon)

**POLISCI 23N. Public Opinion and American Foreign Policy**—(S,Sem)  
5 units, Win (Sniderman)

**POLISCI 32Q. Politics through Literary Lenses**—(S,Sem) GER:DB-Hum  
3 units, Win (Hansot)

**POLISCI 41N. Comparative Public Opinion and Political Behavior**—(S,Sem)  
5 units, Spr (Sniderman)

**POLISCI 45N. Civil War Narratives**—(F,Sem) GER:DB-SocSci  
5 units, Aut (Laitin)

**PORTUGUESE LITERATURE**

**PORTLIT 193Q. Spaces and Voices of Brazil through Films**—(S,Sem)  
3-4 units, Aut (Wiedemann)

**PSYCHIATRY**

**PSYC 72Q. Traumatic Stress**—(S,Sem) WRITE-2  
3 units, Spr (Koopman)

**PSYC 73Q. The Four Faces of Evil: Pathways in and out of Delinquency and Crime**—(S,Sem)  
3 units, Win (Steiner)

**PSYC 76Q. Neurobiology of Mood, Temperament, and Creativity**—(S,Sem) WRITE-2  
4 units, Win (Ketter)

**PSYC 111Q. Madness and the Womb: Mental Illness in Women through the Centuries**—(S,Sem)  
3 units, Win (Rasgon, Williams)

**PSYCHOLOGY**

**PSYCH 7Q. Language Acquisition**—(S,Sem)  
3 units, Aut (A. Fernald)

**PSYCH 11N. Origin of Mental Life**—(F,Sem) GER:DB-SocSci  
3 units, Spr (Markman)



**PSYCH 12N. Self Theories**—(F,Sem) GER:DB-SocSci  
3 units, Aut (*Dweck*)

**PSYCH 13N. Culture and Social Relationships**—(F,Sem) GER:DB-SocSci  
3 units, Win (*Tsai*)

**PSYCH 19N. Memory and Brain**—(F,Sem)  
3 units, Win (*Wagner*)

### RELIGIOUS STUDIES

**RELIGST 2N. Prophecy and Politics in America: The Thought of Abraham Joshua Heschel and Martin Luther King, Jr.**—(F,Sem)  
GER:DB-Hum, EC-AmerCul  
3 units, Spr (*Eisen*)

**RELIGST 3N. Chinese Religious Classics**—(F,Sem) GER:DB-Hum, EC-GlobalCom  
4 units, Win (*Yearley*)

**RELIGST 5N. Three Sacred Stories of Judaism, Christianity, and Islam**—(F,Sem) GER:DB-Hum, EC-GlobalCom  
3 units, Aut (*Gregg*)

**RELIGST 6N. The Life of the Buddha**—(F,Sem) GER:DB-Hum, EC-GlobalCom  
4 units, Spr (*Zimmermann*)

### SCIENCE, TECHNOLOGY, AND SOCIETY

**STS 101Q. Technology in Contemporary Society**—(S,Sem) GER:DB-SocSci  
4 units, Aut (*McGinn*)

### SLAVIC GENERAL

**SLAVGEN 13N. Russia, Russian, Russians**—(F,Sem) GER:DB-Hum  
3-4 units, Win (*Schupbach*)

**SLAVGEN 77Q. Russia's Weird Classic: Nikolai Gogol**—(S,Sem)  
GER:DB-Hum  
3 units, Aut (*Fleishman*)

### SOCIOLOGY

**SOC 22N. The Roots of Social Protest**—(F,Sem)  
3 units, Aut (*Olzak*)

**SOC 25N. Understanding the Sixties**—(F,Sem)  
3 units, Win (*McAdam*)

**SOC 26N. The Changing American Family**—(F,Sem)  
3 units, Aut (*Rosenfeld*)

**SOC 45Q. Understanding Race and Ethnicity in American Society**—(S,Sem) GER:DB-SocSci  
5 units, Aut (*Snipp*)

**SOC 46N. Race, Ethnic, and National Identities: Imagined Communities**—(F,Sem)  
3 units, Spr (*Rosenfeld*)

### SPANISH LITERATURE

**SPANLIT 101N. Visual Studies and Chicana/o Art**—(F,Sem) GER:DB-Hum, EC-AmerCul  
3-5 units, Win (*Yarbro-Bejarano*)

**SPANLIT 111N. Contemporary Spain: The Challenge of Change**—(F,Sem) GER:DB-Hum  
4 units, Aut (*Haro*)

**SPANLIT 114N. Lyric Poetry**—(F,Sem)  
3-5 units, Win (*Predmore*)

**SPANLIT 115N. Growing up Bilingual**—(F,Sem) GER:EC-AmerCul  
3-5 units, Aut (*Valdés*)

**SPANLIT 165Q. Machado, Jiménez, Lorca: An Exploration of Self and Society in 20th-Century Spanish Lyric Poetry**—(S,Sem)  
3-5 units, Win (*Predmore*)

**SPANLIT 178N. From Inside the First World: Women of Color Playwrights Re-mapping the U.S.**—(F,Sem) GER:DB-Hum, EC-AmerCul  
3 units, Aut (*Moraga*)

### SPECIAL LANGUAGES

**SPECLANG 198Q. Modern Greece in Film and Literature**—(S,Sem)  
GER:DB-Hum, EC-GlobalCom  
3-5 units, Aut (*Prionas*)

### STATISTICS

**STATS 47N. Breaking the Code?**—(F,Sem) GER:DB-Math  
3 units, Win (*Holmes*)

### SURGERY

**SURG 69Q. It's All in the Head: Understanding Diversity, Development, and Deformities of the Face**—(S,Sem)  
3-4 units, Win (*Helms*)

**SURG 67Q. Medical Experience in Foreign Lands**—(S,Sem)  
3 units, Win (*Chase, Wang*)

**SURG 68Q. Current Concepts in Transplantation**—(S,Sem) WRITE-2  
3 units, Spr (*Krams, Martinez*)