

Stanford Introductory Seminars

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

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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 the Freshman and Sophomore Programs section in the Undergraduate Degrees and Programs portion of this bulletin for more information.

COURSES

SOPHOMORE COLLEGE

Sophomore College offers second-year students the opportunity to study intensively in small groups with Stanford faculty for several weeks before the beginning of Fall Quarter. Students immerse themselves in a subject and collaborate with peers, upperclass sophomore assistants, and faculty in constructing a community of scholars. They are also encouraged to explore the full range of Stanford's academic resources in workshops and individually. Each Sophomore College course enrolls twelve students, who live together in a Stanford residence and receive 2 units of academic credit. Eligible students will be rising sophomores who have been enrolled for no more than three academic quarters; be in good academic standing; and have completed at least 36 units of academic work by the end of spring quarter. Students must also have an on-campus housing assignment for the ensuing academic year. Students pay a fee toward the cost of board (\$400 in 2002). Tuition, room, the remainder of board costs, and other academic expenses are covered by Sophomore College.

Courses for September 2003 will be announced in March, and applications are due in April. For more information or to apply, see the Sophomore College course catalogue, published each March, or the Sophomore College website at <http://soco.stanford.edu/>. September 2002 courses listed below.

ANTHROPOLOGICAL SCIENCES

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

2 units (Durham)

BIOLOGICAL SCIENCES

SOPHCOLL 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 (Thompson)

CHEMISTRY

SOPHCOLL 10SC. The Rise of Science in Western Thinking—Attempts to explain the physical universe. Conceptual conflicts and the way that science has influenced people's views of the world.

2 units (Zare)

COMMUNICATION

SOPHCOLL 10SC. Some Classical Theories of Film—How film communicates with its audiences and the gratifications audiences derive from watching films. Focus is on the formal structures of film. Tools and the strategies which filmmakers use to organize meaning on the screen.

2 units (Breitrose)

COMPARATIVE LITERATURE

SOPHCOLL 11SC. Worlds (No Longer) Apart—What do Indian rappers in Canada, a Filipino taxi driver in Paris, and television viewers in Nepal have to do with the ghost of a Chinese American girl in Stockton, young Japanese in Graceland, and border artists in the U. S. and Mexico? Narratives, films, documentaries, and videos to examine new textures of modern life and new forms of identity across nations and the globe.

2 units (Palumbo-Liu)

COMPUTER SCIENCE

SOPHCOLL 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 (Hennessy)

DRAMA

SOPHCOLL 10SC. Social Protest Drama—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. Assignments include creating a social protest manifesto and a performance piece.

2 units (Elam)

ECONOMICS

SOPHCOLL 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 (Shoven)

EDUCATION

SOPHCOLL 10SC. Racial and Ethnic Identity: Increasing Self-Understanding—Race as a sociopolitical construct and ethnicity as a psychological construct. Literature in psychology, anthropology, and linguistics reveals that racial identity is construed differently depending on one's social group identification.

2 units (LaFromboise)

ENGLISH

SOPHCOLL 11SC. Power, Music, Culture—The cultural geography of contemporary American urban spaces as sites for development of popular culture. How power shapes contemporary music, literature, and visual arts. How the city serves as the place where the American modern and postmodern creative spirit originates. The relationships among popular music, mass culture, and vernacular forms of culture.

2 units (Saldivar)

SOPHCOLL 12SC. Memory and Media—How do media interact with, extend, and shape human memory? How memory functions across media. Sources include local memorials. How the media's storing and

transmitting memories affect awareness as individuals, as members of communities, and as participants in history.

2 units (*Lunsford*)

GERMAN STUDIES

SOPHCOLL 10SC. Resistance Writings in Nazi Germany—Writings from Dietrich Bonhoeffer and university students in Munich read as historical documents, reflections of German thought, statements of conscience, attempts to maintain normal relationships with others in the face of great risk, poetic works, and guides for an ethical life.

2 units (*Bernhardt*)

HISTORY

SOPHCOLL 11SC. How is a Buddhist?—Buddhism is a system of thought, a culture, a way of life. It is a definition of reality, a method for investigating it, and a mental, physical, and social practice. Buddhism as a total phenomenon. Readings, films, music, and art. How Buddhist practices constitute the world of the Buddhist.

2 units (*Mancall*)

SOPHCOLL 12SC. The United States and the Asia-Pacific Century: Some Perspectives—Americans have sometimes dismissed Asia as unimportant, and sometimes identified their future with it. U.S.-Pacific relations, legacies, and implications.

2 units (*Chang*)

SOPHCOLL 13SC. The Slave Trade—The history of the world's largest forced migration between continents, and the debates about impact on African and New World societies. Comparison of the trans-Atlantic slave trade to other slave trades. Modern forms of slavery that persist to this day.

2 units (*Roberts*)

HUMAN BIOLOGY

SOPHCOLL 10SC. Understanding the Brain: What Do We Know and How Do We Know It?—The human brain consists of about 1015 specialized cells which carry out 100,000 chemical reactions every second; it comprises our conscious experience, stores and retrieves our memories of the past, and generates our everyday behavior. The structure and functioning of the brain and nervous system, and how these functioning units produce behavior.

2 units (*R. Fernald*)

LINGUISTICS

SOPHCOLL 11SC. Understanding Language—What would it take to program a computer to be fluent in a natural language? Building a language-understanding system would require formalizing pronunciation, vocabulary, and grammar, as well as coherence and appropriateness, sufficiently for coding. The structural properties of language and syntax, and the development of natural-language technologies.

2 units (*Wasow*)

MATERIALS SCIENCE AND ENGINEERING

SOPHCOLL 10SC. Building the Future: Invention and Innovation with Engineering Materials—Technological importance of materials in history is captured in names: the Stone Age, Bronze Age, Iron Age, and now the Information Age or the Silicon Age. How materials have played, and continue to play, pivotal roles in the development of new technologies.

2 units (*Bravman*)

MUSIC

SOPHCOLL 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 our reliance on loudspeakers for the consumption of sound, are all aspects of sound being preserved? Team assignments in sound analysis, music recording, and instrument as well as an individual topic for a web-based report.

2 units (*Chafe*)

POLITICAL SCIENCE

SOPHCOLL 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 (*Fraga*)

PSYCHOLOGY

SOPHCOLL 10SC. Language and Mind—Understanding spoken language requires rapid integration of acoustic information with linguistic and conceptual knowledge based on experience with how things happen in the world. Theoretical approaches to understanding speech processing; how these theories relate to the early development of language understanding. Field trips to research laboratories.

2 units (*A. Fernald*)

RELIGIOUS STUDIES

SOPHCOLL 10SC. In Our Own Backyard: The Central American Wars—U.S. foreign policy in Central America over the last quarter-century; present-day U.S. involvement in Colombia, Guatemala (1954), Chile (1973), and Nicaragua and El Salvador (1980s). Sources include historical and political documents, literature, liberation theology, personal testimonies, and documentary.

2 units (*Sheehan*)

SCIENCE, TECHNOLOGY, AND SOCIETY

SOPHCOLL 10SC. Ethics, Science, and Technology: Issues and Controversies—Innovations in contemporary science, technology, and engineering raise ethical issues that challenge traditional Western ethical thought and our ability to devise realistic public policies to promote societal well-being. Focus is on ethical controversies spawned by recent or emerging technical advances.

2 units (*McGinn*)

SOCIOLOGY

SOPHCOLL 10SC. Bargaining, Power, and Social Influence—How both simple and complex negotiations unfold under varying circumstances, and how conflict can be avoided. Effective negotiating strategies. Sample negotiations to understand how they can be more effective. Presentation of case study.

2 units (*Cook*)

FRESHMAN SEMINARS AND SOPHOMORE SEMINARS AND DIALOGUES

Freshman Seminars and Sophomore Seminars and Dialogues are offered in a variety of 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 may participate on a space available basis and with the consent of the instructor. Sophomore preference seminars and dialogues, similarly, give preference to sophomores, 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 ten to twelve students, while sophomore preference dialogues take the form of a directed reading, and are given for 1-2 units to a maximum of four to five students.

All seminars require a brief application. See the *Time Schedule*, the Stanford Introductory Seminars annual course catalogue published each September, or the Introductory Seminars web site at <http://introsems.stanford.edu/> for more information. Due dates for applications for the 2002-03 courses are: Autumn Quarter, midnight, September 23 for freshman preference courses, and midnight, September 24 for sophomore preference courses; Winter Quarter, 5 pm, December 6 for both freshman preference and sophomore preference courses; Spring Quarter, 5 pm, March 14 for both freshman and sophomore preference courses.

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

AMERICAN STUDIES

AMSTUD 114Q. Visions of the 1960s—(S,Sem) GER:3a,4b
5 units, Aut (Gillam)

ANESTHESIA

ANES 75Q. Literature and Medical Interventions—(S,Dial)
1 unit, Aut (Shafer, Barr)

ANES 113Q. Disease-Oriented Approach to Human Physiology—(S,Sem)
3 units, Spr (Rosenthal)

ART HISTORY

ARTHIST 30N. The Visual World of *Moby Dick*—(F,Sem)
4 units, Aut (Wolf)

ASIAN LANGUAGES

CHINESE GENERAL

CHINGEN 73N. Chinese Language, Culture, and Society—(F,Sem)
GER:3a,4a
4 units, Spr (Sun)

BIOCHEMISTRY

BIOC 118Q. Genomics, Bioinformatics, and Medicine—(S,Sem)
GER:2b
3 units, Spr (Brutlag)

BIOLOGICAL SCIENCES

BIOSCI 5N. Thinking Critically About Environmental Problem Solving—(F,Sem)
3 units, Win (Root)

BIOSCI 7N. Edible Botany—(F,Sem)
3 units, Spr (Preston)

BIOSCI 13N. Environmental Problems and Solutions—(F,Sem)
GER:2a
3 units, Spr (Ehrlich)

BIOSCI 15N. Environmental Literacy—(F,Sem) GER:2a
3 units, Win (Schneider)

BIOSCI 16N. Island Ecology—(F,Sem) GER:2a
3 units, Win (Vitousek)

BIOSCI 19N. Diversity, Gender, and Sexuality—(F,Sem) GER:4c
3 units, Win (Roughgarden)

BIOSCI 20N. Sending Signals to Cells—(F,Sem)
3 units, Spr (Cyert)

BIOSCI 21N. Mood Genes: The Origins for Mania and Depression—(S,Sem)
3 units, Aut (Baker)

BIOSCI 25Q. Cystic Fibrosis—(S,Sem)
3 units, Win (Kopito)

BIOSCI 26N. Maintenance of the Genome—(F,Sem) GER:2a
3 units, Spr (Hanawalt)

BIOSCI 28N. Molecular Basis of Cancer—(F,Sem)
3 units, Spr (Fang)

BIOSCI 36N. Physiology of Human Performance—(F,Sem)
3 units, Aut (Heller, Grahn)

BIOSCI 106Q. The Heart of the Matter—(S,Sem)
3-4 units, Win (Myers, Simoni)

BUSINESS

ORGANIZATIONAL BEHAVIOR

OB 111Q. Urban Legends, Conspiracy Theories, and Other Distortions in the Marketplace of Ideas—(S,Sem)
4 units, Win (Heath)

CHEMICAL ENGINEERING

CHEMENG 50Q. Drug Delivery in the 21st Century—(S,Sem)
3 units, Aut (Robertson, Rosen)

CHEMENG 60Q. Environmental Regulation and Policy—(S,Sem)
3 units, Spr (Robertson, Libicki)

CHEMISTRY

CHEM 22N. Naturally Dangerous—(F,Sem)
2 units, Spr (Collman)

CHEM 23N. Chemistry and Biology in Biotechnology—(F,Sem)
GER:2a
3 units, Win (Khosla)

CHEM 24N. Nutrition and History—(F,Sem)
2 units, Spr (Huestis)

CHEM 25Q. Science-in-Fiction Is Not Science Fiction—(S,Dial)
2 units, Win (Djerassi)

CHEM 27N. Lasers: The Light Fantastic—(F,Sem)
2 units, Win (Moerner)

CHEM 28N. Transforming Chemistry—(F,Sem)
2 units, Spr (Taube)

CIVIL AND ENVIRONMENTAL ENGINEERING

CEE 31Q. Accessing Architecture Through Drawing—(S,Sem)
4 units, Win (Walters)

CEE 46Q. Fail Your Way to Success—(S,Sem) GER:2b
3 units, Spr (Paulson, Clough)

CEE 61Q. Big Dams, City Hall, and the Sierra Club—(S,Dial)
1-2 units, Aut (Kitanidis)

CEE 62Q. Environmental Management: An International Perspective—(S,Dial)
2 units, Spr (Ortolano)

CEE 80N. Structures: Where Form is the Function—(F,Sem) GER:2b
4 units, Spr (Billington)

CLASSICS

ART/ARCHAEOLOGY

CLASSART 21Q. Eight Great Archaeological Sites in Europe—(S,Sem) GER:3a
3-4 units, Aut (Shanks)

GENERAL

CLASSGEN 15N. Ecology in Philosophy and Literature—(F,Sem)
GER:3a
3-4 units, Win (Nightingale)

CLASSGEN 23N. Crosscultural Perspectives on Love—(F,Sem)
GER:3a,4c
4 units, Aut (Syed)

COMMUNICATION

COMM 118Q. Theories of Film Practice—(S,Sem)
4 units, Aut (Breitrose)

COMM 149Q. Interethnic Communication—(S,Dial)
2 units, Win (Leets)

COMPARATIVE LITERATURE

COMPLIT 15N. Ecology in Philosophy and Literature—(F,Sem)
GER:3a
3-4 units, Win (Nightingale)

COMPLIT 22N. Shakespeare and Performance—(F,Sem) GER:3a,4c
3 units, Spr (Parker)

COMPLIT 24Q. Ethnicity and Literature—(S,Sem) GER:3a,4b
5 units, Aut (Palumbo-Liu)

COMPLIT 84Q. Shakespeare, Playing, Gender—(S,Sem) GER:3a,4c
3 units, Win (Parker)

COMPLIT 116Q. Western Philosophy and its Blind Spot: The History of Sports—(S,Sem) GER:3a
3-5 units, Spr (Gumbrecht)

COMPARATIVE MEDICINE

COMP MED 81Q. Comparative Anatomy and Physiology of Mammals—(S,Sem)
3 units, Win (Bouley)

COMP MED 83Q. Horse Medicine—(S,Sem)
3 units, Win (Green)

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

COMP MED 86N. Methods of Diagnosis in Veterinary Medicine—(F,Sem)
3 units, Spr (Beckwith)

COMP MED 99N. Mechanisms of Disease—(F,Sem)
3 units, Spr (Bouley)

COMPUTER SCIENCE

CS 20N. Internet Auctions and Other Games of Computer Science and Economics—(F,Sem)
3 units, Aut (Shoham)

CS 22N. Smart Computers and Other Technological Opportunities—(F,Sem)
3 units, Spr (McCarthy)

CS 48N. The Science of Art—(F,Sem) GER:2b
3 units, Win (Levoy)

CS 68N. Technological Visions of Utopia—(F,Sem)
3 units, Aut (Roberts)

CS 73N. Business on the Information Highways—(F,Sem)
3 units, Win (Wiederhold)

CULTURAL AND SOCIAL ANTHROPOLOGY

CASA 7N. Investigating Culture—(F,Sem) GER:3b
5 units, Aut (Delaney)

CASA 21Q. Eight Great Archaeological Sites in Europe—(S,Sem) GER:3a
3-4 units, Aut (Shanks)

DEVELOPMENTAL BIOLOGY

DBIO 11N. Human Development: Egg to Embryo—(F,Sem)
3-4 units, Aut (Porzig)

DRAMA

DRAMA 12N. Antigone: From Ancient Democracy to Contemporary Dissent—(F,Sem) GER:3a,4c
4 units, Win (Rehm)

DRAMA 13N. Hamlet(s)—(F,Sem) GER:3a
4 units, Spr (Rayner)

DRAMA 14N. Contemporary German Drama from Brecht to Heiner Mueller—(F,Sem) GER:3a
4 units, Win (Weber)

DRAMA 17N. Del Otro Lado: Latino/a Performance Art in the U.S.—(F,Sem) GER:3a
3 units, Win (Moraga)

DRAMA 18N. American Performance Traditions—(F,Sem)
4 units, Spr (Fordyce)

DRAMA 19N. Contemporary African American Drama from August Wilson to Hip Hop—(F,Sem) GER:3a
3-5 units, Aut (Elam)

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

DRAMA 188Q. Developments in Western Theater after World War II—(S,Dial)
1-2 units, Aut (Weber)

ECONOMICS

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

ECON 12N. The Economics of the Internet—(F,Sem)
2 units, Spr (Wolak)

ECON 16N. Stanford University and Silicon Valley—(F,Sem)
2 units, Win (Rosenberg)

ECON 93Q. The U.S. Stock Market—(S,Sem)
3 units, Win (Marotta)

ECON 99Q. State, Market, and Development—(S,Sem)
5 units, Spr (Meier)

EDUCATION

EDUC 137Q. Conceptualizing Human Motivation: East and West—(S,Sem)
3 units, Spr (Roeser)

EDUC 138Q. Educational Testing in American Society—(S,Sem)
3 units, Win (Haertel)

ELECTRICAL ENGINEERING

EE 60Q. Man versus Nature: Coping with Disasters Using Space Technology—(S,Dial)
2 units, Aut (Zebker)

EE 93Q. Energy Processes—(S,Sem)
3 units, Aut (da Rosa)

ENGINEERING

ENGR 1N. The Nature of Engineering—(F,Sem) GER:2b
3 units, Aut (Freyberg)

ENGR 159Q. Research in Japanese Companies—(S,Sem)
3 units, Spr (Sinclair)

ENGLISH

ENGLISH 61N. Romantic Literary Monsters—(F,Sem) GER:3a
3 units, Spr (Gigante)

ENGLISH 62N. Eros in Modern American Poetry—(F,Sem) GER:3a
3 units, Aut (Fields)

- ENGLISH 63N. The Idea of the Third World and the Idea of Globalization**—(F,Sem) GER:3a
3 units, Spr (Drake)
- ENGLISH 64N. Growing Up in America**—(F,Sem) GER:3a
3 units, Aut (Moya)
- ENGLISH 65N. Contemporary Short Story**—(F,Sem) GER:3a
3 units, Win (Tallent)
- ENGLISH 70N. Shakespeare on Film**—(F,Sem) GER:3a
3 units, Spr (Riggs)
- ENGLISH 74N. Introduction to Caribbean Literature**—(F,Sem) GER:3a
3 units, Spr (D. Jones)
- ENGLISH 82Q. Shakespeare's Plays**—(S,Sem) GER:3a
5 units, Spr (Rebholz)
- ENGLISH 83Q. Playwriting: A Workshop in Craft**—(S,Sem)
3 units, Win (Di Pirro)
- ENGLISH 84Q. Workshop in Shakespeare and Performance**—(S,Sem) GER:3a
3 units, Aut (Friedlander)
- FEMINIST STUDIES
- FEMST 38N. The Body**—(F,Sem) GER:3a,4c
5 units, Aut (Freedman)
- FRENCH AND ITALIAN
- FRENCH GENERAL
- FRENGEN 108N. Female Saints: The Rhetoric of Religious Perfection**—(F,Sem) GER:3a,4c
4 units, Spr (Cazelles)
- FRENGEN 180Q. Aspects of Contemporary French Society through Films**—(S,Sem)
4 units, Spr (Bertrand)
- ITALIAN GENERAL
- ITALGEN 191Q. Eating Life**—(S,Sem) GER:3a
3 units, Win (Napolitano)
- GENETICS
- GENE 104Q. Legal and Social Issues in Human Genetics**—(S,Sem)
3 units, Spr (Greely)
- GENE 106Q. The Heart of the Matter**—(S,Sem)
3-4 units, Win (Myers, Simoni)
- GEOLOGICAL AND ENVIRONMENTAL SCIENCES
- GES 38N. The Worst Journey in the World: What Drives Polar Exploration?**—(F,Sem)
3 units, Aut (Dunbar)
- GES 42N. Early Life on Earth**—(F,Sem) GER:2a
3 units, Aut (Lowe)
- GES 47N. Secrets in the Mud: A Look into the Field of Paleoceanography**—(F,Sem) GER:2a
3 units, Win (Paytan)
- GES 49N. Field Trip to Death Valley and Owens Valley**—(F,Sem) GER:2a
3 units, Win (Mahood)
- GES 50Q. The Coastal Zone Environment**—(S,Sem) GER:2a
3 units, Aut (Ingle)
- GES 51Q. Geologic Environment and Human Health**—(S,Sem)
3 units, Win (Brown, Ernst)
- GES 52Q. Geologic Development of California**—(S,Sem) GER:2a
5 units, Spr (Ernst)
- GES 53Q. In the Beginning: Theories of the Origin of the Earth, Solar System, and Universe**—(S,Sem) GER:2a
3 units, Win (McWilliams)
- GES 54Q. California Landforms and Plate Tectonics**—(S,Sem) GER:2a
3 units, Aut (Miller)
- GES 55Q. The California Gold Rush**—(S,Sem) GER:2a
3 units, Spr (Bird)
- GES 57Q. How to Critically Read and Discuss Scientific Literature**—(S,Sem) GER:2a
3 units, Aut (Paytan)
- GEOPHYSICS
- GEOPHYS 30Q. The 1906 San Francisco Earthquake**—(S,Dial)
2 units, Spr (Beroza)
- GEOPHYS 60Q. Man versus Nature: Coping with Disasters Using Space Technology**—(S,Dial)
2 units, Aut (Zebker)
- GEOPHYS 70Q. Earth in the News**—(S,Sem)
3 units, Spr (Knight)
- GERMAN STUDIES
- GERMAN GENERAL
- GERGEN 120N. What is Good: Morality in an Age of Revolutions**—(F,Sem) GER:3a
4 units, Aut (Strum)
- GERGEN 167N. Nazi Cinema**—(F,Sem) GER:3a
4 units, Spr (Kenkel)
- GERGEN 170N. The Epics of Northern Europe**—(F,Sem) GER:3a
4 units, Win (Andersson)
- GERMAN LITERATURE
- GERLIT 123N. The Brothers Grimm and Their Fairy Tales**—(F,Sem) GER:3a
4 units, Spr (Robinson)
- GERLIT 126Q. Reading German Literature: An Introduction**—(S,Sem) GER:3a
4 units, Aut (Berman)
- HEALTH RESEARCH AND POLICY
- HRP89Q. Introduction to Crosscultural Issues in Medicine**—(S,Sem)
3 units, Win (Corso)
- HISTORY
- HISTORY 5N. The Challenge of Nuclear Weapons**—(F,Sem) GER:3b
5 units, Spr (Holloway)
- HISTORY 10N. Shipwrecks**—(F,Sem)
5 units, Aut (Lougee Chappell)
- HISTORY 15N. Heresy, Witchcraft, and Social Change in Early Modern England**—(F,Sem)
5 units, Aut (Como)
- HISTORY 19N. Peter the Great: Man and Myth**—(F,Sem) GER:3a
4 units, Win (Kollmann)
- HISTORY 24N. World War II**—(F,Sem)
5 units, Win (Weiner)
- HISTORY 26N. Pearl Harbor**—(F,Sem)
5 units, Win (Duus)

HISTORY 38N. The Body—(F,Sem) GER:3a,4c
5 units, Aut (*Freedman*)

HISTORY 42N. The Invention of Liberty and the English Revolution, 1640-1660—(F,Sem) GER:3a
4 units, Win (*Seaver*)

HISTORY 48Q. South Africa: Contested Transitions—(S,Sem)
3 units, Win (*Samoff*)

HISTORY 90Q. Buddhist Political and Social Theory—(S,Sem)
GER:3b,4a
5 units, Spr (*Mancall*)

HUMAN BIOLOGY

HUMBIO91Q. Neuroethology: The Neural Control of Behavior—(S,Sem)
3 units, Aut (*R. Fernald*)

HUMBIO 92Q. International Women's Health and Human Rights—(S,Sem)
3 units, Win (*Firth-Murray*)

HUMBIO 94Q. The Nation's Health—(S,Sem)
3 units, Aut (*Heller, Lee*)

HUMBIO 95Q. Science-in-Fiction Is Not Science Fiction—(S,Dial)
2 units, Win (*Djerassi*)

HUMBIO 96Q. Guilt and Shame: Multidisciplinary Perspectives—(S,Sem)
3 units, Win (*Katchadourian*)

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

INTERDISCIPLINARY STUDIES IN HUMANITIES

HUMNTIES 121Q. Doctors Writing, Writing Doctors: Readings from Medical School, Medical Training, Medical Practice—(S,Sem)
3 units, Spr (*Zaroff*)

LINGUISTICS

LINGUIST 11N. Accents of English—(F,Sem) GER:3b
3 units, Spr (*Flemming*)

LINGUIST 12Q. You Can't Say That! Usage and Prescriptive Grammar—(S,Sem)
3 units, Spr (*Zwicky*)

LINGUIST 30N. Language and Law—(F,Sem) GER:3b
3 units, Aut (*Traugott*)

LINGUIST 34N. Language of Advertising—(S,Sem) GER:3b
3 units, Win (*Leben*)

MANAGEMENT SCIENCE AND ENGINEERING

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

MS&E 93Q. Nuclear Weapons, Terrorism, Energy—(S,Sem)
3 units, Spr (*May*)

MATERIALS SCIENCE AND ENGINEERING

MATSCI 70N. Building the Future: Invention and Innovation with Engineering Materials—(F,Sem) GER:3b
4 units, Win (*Bravman*)

MATSCI 159Q. Research in Japanese Companies—(S,Sem)
3 units, Spr (*Sinclair*)

MATSCI 189Q. Materials in Art and the Ancient World—(S,Sem)
3 units, Aut (*McIntyre*)

MATHEMATICS

MATH 84Q. Finite Mathematics, Codes, and Cryptography—(S,Sem)
3 units, Win (*Carlsson*)

MATH 85Q. Calculus of Variations—(S,Sem)
3 units, Spr (*Mazzeo*)

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

MECHANICAL ENGINEERING

ME 12N. The Jet Engine—(F,Sem)
3 units, Aut (*Eaton*)

ME 13N. Designing the Human Experience—(F,Sem)
3-5 units, Win (*Leifer*)

ME 16N. The Science of Flames—(F,Sem)
3 units, Win (*Mitchell*)

ME 18N. Creative Teams and Individual Development—(F,Sem)
3 units, Aut (*Wilde*)

ME 19N. Robots—(F,Sem)
3 units, Aut (*Niemeyer*)

MEDICINE

MED 70Q. Cancer and the Immune System—(S,Sem)
3 units, Spr (*Negrin*)

MED 88Q. Dilemmas in Current Medical Practice—(S,Sem)
3 units, Aut (*Croke, H. Jones*)

MED 89Q. Biomedical Ethics—(S,Sem)
3 units, Aut (*Young*)

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

MED 101Q. The Human Side of Medicine—(S,Sem)
3 units, Win (*Garcia*)

MED 108Q. Human Rights and Health—(S,Sem)
3 units, Win (*Laws*)

MED 110Q. Introduction to Medical Devices—(S,Sem)
3 units, Spr (*Doshi*)

MED 117Q. Hormones and Society—(S,Sem)
5 units, Aut (*Hoffman*)

MED 120Q. Pathophysiology and Treatment of Cardiovascular Diseases—(S,Sem)
3 units, Spr (*Stertzer*)

MICROBIOLOGY AND IMMUNOLOGY

MI 25N. Modern Plagues—(F,Sem)
3 units, Aut (*Boothroyd*)

MI 127N. Infectious Disease: Fact and Fiction—(F,Sem)
3 units, Aut (*Schneider*)

MOLECULAR AND CELLULAR PHYSIOLOGY

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

MUSIC

MUSIC 13N. Art versus Pop—(F,Sem) GER:3a
4 units, Aut (*Applebaum*)

- MUSIC 15N. The Role of Technology in the Arts**—(F,Sem) GER:3a
3 units, Win (*J. Berger*)
- MUSIC 15Q. Topics in American Music**—(S,Sem) GER:3a,4b
3 units, Win (*A. Cohen*)
- MUSIC 16N. Explorations in World Music**—(F,Sem) GER:3a,4a
3 units, Win (*Hui*)
- MUSIC 16Q. Ki ho'alu: The New Renaissance of a Hawaiian Musical Tradition**—(S,Sem) GER:3a,4b
3 units, Aut (*Sano*)
- MUSIC 17N. The Operas of Mozart**—(F,Sem) GER:3a
3 units, Win (*K. Berger*)
- MUSIC 17Q. Perspectives in North American Taiko**—(S,Sem) GER:3a,4b
4 units, Spr (*Sano, Uyechi*)
- MUSIC 31N. Opera on Film**—(F,Sem) GER:3a
3 units, Win (*Hadlock*)
- NEUROSURGERY
- NSUR 61Q. Biocomputation and Design**—(S,Sem)
4 units, Spr (*Shahidi*)
- OPHTHALMOLOGY
- OPHT 108Q. Lasers in Medicine**—(S,Sem)
3 units, Win (*Palanker*)
- ORTHOPEDIC SURGERY
- ORPS 70Q. Tissue Engineering: Ethics, Genes, and Cells**—(S,Sem)
3 units, Aut (*Smith*)
- PATHOLOGY
- PATH 103Q. Leukocyte Migration**—(S,Dial)
1 unit, Aut (*Michie*)
- PATH 105Q. Final Analysis: The Autopsy as a Tool of Medical Inquiry**—(S,Sem)
3 units, Spr (*Regula*)
- PEDIATRICS
- PEDS 104Q. Medicine's Greatest Discoveries**—(S,Sem)
3 units, Win (*Prober*)
- PHILOSOPHY
- PHIL 11N. Skepticism**—(F,Sem) GER:3a
3 units, Aut (*De Pierris*)
- PHIL 12N. Ethics of Social Change**—(F,Sem) GER:3a
3 units, Aut (*Moravcsik*)
- PHIL 13N. What is Truth?**—(F,Sem) GER:3a
3 units, Win (*Mints*)
- PHIL 14N. Practical Norms**—(F,Sem) GER:3a
3 units, Spr (*Schapiro*)
- PHIL 15N. Paradoxes**—(F,Sem) GER:3a
3 units, Win (*Crimmins*)
- PHIL 16N. Dinosaurs and Darwin**—(F,Sem) GER:3a
3 units, Win (*Godfrey-Smith*)
- PHIL 74Q. Ethical Aspects of Risk**—(S,Sem)
5 units, Aut (*Føllesdal*)
- PHYSICS
- PHYSICS 11N. Symmetries of Nature: Inner to Outer Space**—(F,Sem)
3 units, Aut (*Shenker*)
- PHYSICS 18N. Revolutions in Concepts of the Cosmos**—(F,Sem) GER:2a
3 units, Win (*Dimopoulos*)
- PHYSICS 51N. Advanced Topics in Light and Heat**—(F,Sem)
1 unit, Aut (*Gratta*)
- PHYSICS 53N. Physics in the 21st Century**—(F,Sem)
1 unit, Win (*Thomas*)
- PHYSICS 55N. Understanding Electromagnetic Phenomena**—(F,Sem)
1 unit, Spr (*Greven*)
- PHYSICS 61N. Mechanics: Insights, Applications, and Advances**—(F,Sem)
1 unit, Aut (*Linde*)
- PHYSICS 63N. Applications of Electromagnetism**—(F,Sem)
1 unit, Win (*Shenker*)
- PHYSICS 80N. The Technical Aspects of Photography**—(F,Sem)
3 units, Spr (*Osheroff*)
- PHYSICS 85Q. Cosmology in the 21st Century**—(S,Dial)
1 unit, Win (*Thomas*)
- POLITICAL SCIENCE
- POLISCI 11N. The Rwandan Genocide**—(F,Sem)
4 units, Aut (*Stedman*)
- POLISCI 21N. The Evolution of Voting Rights in the U.S.**—(F,Sem) GER:3b
5 units, Spr (*Fraga*)
- POLISCI 21Q. The Presidency**—(S,Sem)
5 units, Spr (*Moe*)
- POLISCI 22Q. The Politics of Bureaucracy**—(S,Sem)
5 units, Win (*Moe*)
- POLISCI 31N. Tolerance and Democracy**—(F,Sem) GER:3b
5 units, Aut (*Sniderman*)
- POLISCI 41N. Mexican Politics**—(F,Sem)
5 units, Aut (*Diaz-Cayeros*)
- POLISCI 42N. Democracies and Autocracies**—(F,Sem) GER:3b
5 units, Spr (*Magaloni*)
- PSYCHIATRY
- PSYC 72Q. Traumatic Stress**—(S,Sem)
3-5 units, Spr (*Koopman*)
- PSYC 75Q. Mental Dimensions of Sports and Performing Arts**—(S,Sem)
3 units, Aut (*Brassington, Steiner*)
- PSYC 76Q. Neurobiology of Mood, Temperament, and Creativity**—(S,Sem)
4 units, Win (*Ketter*)
- PSYC 80Q. Borderline Personality: Artistic Representations and Treatment**—(S,Sem)
3 units, Aut (*King*)
- PSYCHOLOGY
- PSYCH 2N. Aging and Time Perspective**—(F,Sem)
3 units, Spr (*Carstensen*)
- PSYCH 4N. Conflict, Identity, and Justice**—(F,Sem)
3 units, Spr (*Ross*)

PSYCH 7N. Language Acquisition—(F,Sem)
3 units, Win (A. Fernald)

PSYCH 9N. The Social Psychology of Race, Gender, and Culture—
(F,Sem)
3 units, Win (Steele)

PSYCH 12Q. Emotion—(S,Dial)
2 units, Aut (Gross)

PSYCH 13N. Culture and Social Relationships—(F,Sem)
3 units, Win (Tsai)

PSYCH 15N. Explorations in Human Memory—(F,Sem)
3 units, Aut (Bower)

PSYCH 20Q. The Psychology of Stigma—(S,Dial)
2 units, Aut (Hastorf)

RELIGIOUS STUDIES

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

RELIGST 3N. Socrates on Trial—(F,Sem) GER:3a
4 units, Aut (Sheehan)

RELIGST 4N. The Creation of Woman: Eve, Pandora, and their Interpreters—(F,Sem) GER:3a,4c
3 units, Aut (Fonrobert)

SCIENCE, TECHNOLOGY, AND SOCIETY

STS 101Q. Technology in Contemporary Society—(S,Sem) GER:3b
4 units, Aut (McGinn)

SLAVIC LANGUAGES AND LITERATURES

SLAVIC GENERAL

SLAVGEN 15N. Tolstoy's War and Peace in Context—(F,Sem)
GER:3a
3-5 units, Win (Freidin)

SLAVGEN 65Q. Art, Music, and Poetry of the Russian Avant Garde—(S,Sem) GER:3a
3 units, Win (Fleishman)

SOCIOLOGY

SOC 15N. The Transformation of Socialist Societies—(F,Sem)
3 units, Win (Tuma)

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

SOC 44N. Race, Class, and Culture in Urban America—(F,Sem)
3 units, Spr (McDermott)

SOC 45Q. Understanding Race and Ethnicity in American Society—
(S,Sem)
5 units, Aut (Snipp)

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

SPANISH AND PORTUGUESE

SPANISH LITERATURE

SPANLIT 101N. Visual Studies and Chicana/o Art—(F,Sem)
GER:3a,4b
3-5 units, Spr (Yarbro-Bejarano)

SPANLIT 110Q. Introduction to Chicana/o Literature and Visual Art—(S,Sem) GER:4b
3-5 units, Spr (Yarbro-Bejarano)

SPANLIT 111N. Contemporary Spain: The Challenge of Change—
(F,Sem) GER:3a
4 units, Aut (Haro)

SPANLIT 115N. Growing up Bilingual—(F,Sem) GER:4b
3-5 units, Spr (Valdés)

SPECIAL LANGUAGE PROGRAM

SPECLANG 199Q. Literature and Culture of Modern Greece—
(S,Sem) GER:3a
3-5 units, Aut (Prionas)

STATISTICS

STATS 43N. Displaying Data: Principles, Computer Graphics, and the Internet—(F,Sem) GER:2c
3 units, Win (Walther)

STATS 46N. Experiments in Extrasensory Perception: A Critical Analysis—(F,Sem) GER:2c
3 units, Spr (Switzer)

STATS 47N. Breaking the Code?—(F,Sem) GER:2c
3 units, Aut (Taylor)

SURGERY

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

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

This file has been excerpted from the *Stanford Bulletin*, 2002-03, pages 664-671. Every effort has been made to insure accuracy; late changes (after print publication of the bulletin) may have been made here. Contact the editor of the *Stanford Bulletin* via email at arod@stanford.edu with changes, corrections, updates, etc.