



FALL 2009

<http://fss.berkeley.edu/>

**Freshman and Sophomore Seminars
University of California, Berkeley
301 Campbell Hall
Berkeley, CA 94720-2922**

Freshman & Sophomore Seminars at Berkeley

UC Berkeley's Freshman and Sophomore Seminars provide an unparalleled opportunity for faculty members and small groups of lower-division students to explore a scholarly topic of mutual interest together, in the spirit of learning for its own sake. By taking a seminar a student becomes an active member of Berkeley's intellectual community. The seminars depend on the regular presence and active participation of every student. Sharing ideas in class is an important academic skill that can be acquired only through practice. The vigorous discussions that characterize the most successful seminars depend on the commitment of each and every member of the class. Students are encouraged to choose their seminars based on the pull of intellectual curiosity, a desire to explore enticing and even unfamiliar realms.

Please visit the Freshman & Sophomore Seminar website at <http://fss.berkeley.edu/> for the following:

- Updates to the seminar lists included in this document on easy-to-follow web pages
- Revisions to this document
- Pop-up menus to help students find seminars of interest based on seminar topics
- Information regarding the Food for Thought Seminar series, a wonderful way for faculty and students to get better acquainted in an informal setting before or after class
- Success, Seminars, and You – a web page full of good ideas and helpful links to support students in registering for a seminar and getting the most out of their seminars before, during and after taking a seminar

L&S Discovery Courses

The seven-course breadth requirement can be an unparalleled opportunity to explore fascinating worlds of knowledge. The Letters & Science Discovery Courses take the guesswork out of satisfying the breadth requirement. Taught by some of the most distinguished faculty on campus and deliberately designed to engage and ignite the minds of non-experts, these courses are unforgettable. For details on the Discovery Courses, see <http://lsdiscovery.berkeley.edu>.

This document was last updated on July 7, 2009.

FRESHMAN SEMINARS

The following courses, most of which are numbered 24, are limited to 15-18 students. Each is offered for one unit of credit. First-year students will be given priority for enrollment. Courses designated P/NP may be taken pass/no pass only; courses designated LG may be taken for a letter grade or on a pass/no pass basis. If a course is designated as requiring the consent of the instructor to enroll, or if you would like additional course information, contact the undergraduate assistant in the department offering the seminar.

African American Studies 24, Section I
Researching "Mixed-Race" Identity and History in the United States (1 unit, LG)
Professor Stephen Small
Wednesday 4:00-6:00, 140 Barrows Hall, CCN: 00556

This seminar will meet week two through week eight of the semester, beginning September 2, 2009 and ending October 14, 2009.

People of mixed racial origins are one of the fastest growing populations in California, and across the USA. This course describes the various sources and methods available for studying the history and identity of people of various racial backgrounds, (including those of mixed Asian, Black, Chicano, Native American or white ancestry). We will review some of the main themes in writings about people of mixed racial origins; we will examine various sources for identifying mixed race populations, including census, biographies, literature and films; and we will consider various methods for carrying out research, including use of historical documents, interviews and analysis of images and representations. This course will equip students with basic research skills that can be utilized for other projects in African American Studies, Ethnic Studies, History, Sociology and Anthropology. We will watch a number of short videos and parts of films about people of mixed racial origins. Requirements include a number of short readings.

Dr. Stephen Small is Associate Professor and former Chair in the Department of African American Studies where he teaches courses on Black Family, Research Methods, Globalization and Minority Communities, and People of Mixed Racial Descent (cross listed with Ethnic Studies). He has written several articles on people of mixed racial descent in England, the Caribbean and the USA, and is currently writing a book on Blacks of mixed racial descent in the Caribbean and the United States in the nineteenth century.

American Studies 24, Section I
Food Politics and American Popular Culture (1 unit, LG)
Dr. Kathleen Moran
Friday 11:00-12:00, 202 Wheeler Hall, CCN: 02017

We will read Michael Pollan's *Omnivore's Dilemma*, and think about the way issues of growing, distributing, and eating food have been represented, constructed and reflected in American Popular Culture, including films, television, and advertising. **This seminar is part of the On the Same Page initiative: <http://onthesamepage.berkeley.edu>.**

Kathleen Moran is the Associate Director of the American Studies Program. She has written about nineteenth- and twentieth-century American political thought, and her research during the last decade has been focused on consumerism and American popular culture. Her recent course topics include film in the 1980s, advertising, theme parks, and food studies.

Anthropology 24, Section I
The World of the Inca: the Largest Pre-historic American Empire (1 unit, P/NP)

Professor Christine Hastorf
Monday 12:00-1:00, Room 101 in 225I College Avenue, CCN: 02464

Food for Thought dining arrangements will be discussed in class.

This seminar focuses on the origins, impact, decline, and transformation of Inca Empire and society in the 14th through 17th centuries in western South America. Drawing upon the body of Inca and Inca-Colonial archaeological studies, as well as the wealth of ethnohistoric documentation, this seminar will address the sociopolitical, religious, and quotidian construction of 'an' Inca identity and the Inca world. What was it like to live in the Inca Empire? What did local people do, what did the nobility do? What were their rituals and yearly cycles? In our consideration of Inca and Neo-Inca cultures, we will pay special attention to the following topics: their relationship to the landscape; how Inca conquest and imperial maintenance strategies differed from those of the Spanish; and post-Colonial struggles for indigenous sovereignty. **This seminar is part of the Food for Thought Seminar Series.**

Christine Hastorf is a Professor in the Anthropology Department. She is an archaeologist working on food and agriculture in the late prehistory of Andean South America. With active field and laboratory research projects as well as directing an archaeobotanical laboratory in Kroeber Hall, she is involved in plant studies at all levels of analysis and interpretation.

Chemical Engineering 24, Section I
Chemical Engineering: What Is It and Where Is It Going? (1 unit, P/NP)
Professor David B. Graves
Tuesday 3:00-4:00, 122 Latimer Hall, CCN: 10403

This course is intended to be an introduction to chemical engineering, with descriptions of both traditional careers and the variety of new directions being taken in the profession. Traditional areas of employment include process, design and control engineering in the chemical, petroleum, food and pharmaceutical industries. Newer areas include biotechnology and life-science applications, environmental applications, and semiconductor manufacturing. The goal is to provide some context for students who have chosen chemical engineering as a major or who are simply interested in a better understanding of chemical engineering and its evolution as a profession. Basic chemical engineering concepts in physical and mathematical models will be illustrated in a series of case studies.

David B. Graves is a Professor in the Chemical Engineering Department. His research area is plasma processing for microelectronics manufacturing: the use of ionized gases for surface modification of thin solid films. He serves as a consultant to several semiconductor equipment and chip manufacturing companies.

Chicano Studies 24, Section I
The Chicano Civil Rights Movement (1 unit, P/NP)
Professor Carlos Munoz Jr.
Tuesday 9:30-11:00, 189 Dwinelle Hall, CCN: 13103

The seminar will consist of examining the multifaceted dimensions of the 1960s Chicano Civil Rights Movement via documentary films.

Professor Carlos Muñoz, Jr. is a Professor Emeritus in the Department of Ethnic Studies. He is the award-winning author of *Youth, Identity, Power: The Chicano Movement*, and is working on a book on the topic of the seminar. For more information regarding Professor Muñoz, visit his faculty webpage at <http://ethnicstudies.berkeley.edu/faculty/munoz/>.

Civil and Environmental Engineering 24, Section I

Two Field Trips in Environmental Engineering (1 unit, P/NP)
Professor John Dracup
Wednesday 6:00-7:00, 544 Davis Hall, CCN: 13902

This seminar will begin Wednesday, September 9, 2009 from 6:00-7:00 p.m. in 544 Davis Hall. It will also meet for two pre-field trip lectures/discussions concerning the science/engineering aspects of each field trip on Wednesday, September 16th and Wednesday, September 23rd from 6:00-7:00 p.m. in 544 Davis Hall. The stream restoration field trip will be on Saturday, September 19th from 9:00 a.m. - 3:00 p.m. and the wetland restoration field trip will be on Saturday, September 26th from 9:00 a.m. - 3:00 p.m. Pizza and soft drinks will be provided at the Wednesday evening class meetings. Lunch arrangements at the Field trips will be discussed in class.

Two Saturday field trips will be to 1. A wetland restoration site and 2. A stream restoration site. All field trips will be in the San Francisco Bay area and last approximately six hours in duration. Transportation will be provided to and from the Berkeley campus. Attendance is mandatory at all three seminar meetings and both field trips for a passing grade in the class. Field trips will be interactive: wear clothing that you don't mind getting wet or dirty. **Enrollment is limited to twenty-three freshmen interested in environmental issues.**

Dr. John Dracup is a Professor of the Graduate School in the Department of Civil & Environmental Engineering. He has taught and conducted research at UCLA and U.C. Berkeley for forty-two years. His expertise is in water resource engineering and hydrology. His recent awards include 1. Inauguration into the "Order of the Black Blouse" by the Water Rights Court of Valencia, Spain; 2. Designation as a Diplomat of the American Academy of Water Resource Engineers of the American Society of Civil Engineers; and 3. An Honorary Professorship at the Universidad Católica San Antonio De Murcia, Spain. He swims competitively with Pacific Masters Swimming.

Classics 24, Section 1
Ancient Greek Food and Religion (1 unit, P/NP)
Professor Mark Griffith
Monday 3:00-4:00, 175 Dwinelle Hall, CCN: 14727

In this course we will look at ancient Greek eating habits, sacrificial customs, and dietary restrictions in relation to their religious and philosophical beliefs. Which animals were killed and eaten, which not—and which kinds or parts of animals were especially significant for religious purposes? What vegetables and fruits were sacred or specially valued? How were foods to be cooked, for religious or non-religious purposes? Which foods were forbidden? Why? What was the relationship between medicine and religion in the realm of diet and food-preparation? What kinds of mythical narratives were told to "explain" Greek eating habits and sacrificial practices? And why did certain religious/philosophical sects advocate vegetarianism? We will read short excerpts from major Greek authors (all in English translation), including Homer, Hesiod, Herodotus, Euripides, Aristophanes, Hippocrates, Plato, Xenophon; and some visual material (vase paintings, archaeological remains, etc.). We'll also look at other ancient Near Eastern material for comparison. **This seminar is part of the On the Same Page initiative: <http://onthesamepage.berkeley.edu>.**

Mark Griffith is a Professor of Classics and of Theater, Dance, and Performance Studies. His publications have focused primarily on Greek tragedy.

Classics 24, Section 2
Homer's 'Odyssey'—The Text and the Mythology (1 unit, P/NP)
Professor Anthony Bulloch

Wednesday 3:00-4:00, 175 Dwinelle Hall, CCN: 14730

This seminar is a study of the 'Odyssey' in both the cultural and historical context of ancient Greece, and as a mythic language through which to explore issues of identity, gender, sexuality, community, individuality, responsibility, etc.

Anthony Bulloch is a Professor of Classics at UC Berkeley and Assistant Dean in the College of Letters & Science, Office of Undergraduate Advising. Before coming to Berkeley he was a Fellow, Dean and Classics tutor at King's College in Cambridge and has authored books and articles on various authors and texts from the ancient Greek world.

**Comparative Literature 24, Section 1
Reading and Reciting Great Poems in English (1 unit, P/NP)
Stephen Tollefson**

Wednesday 4:00-5:00, 225 Dwinelle Hall, CCN: 17284

People today do not have enough poetry in their heads, and everyone should be able to recite one or two of their favorite poems. In addition to its purely personal benefits, knowing some poetry by heart has practical applications: in a tough job interview, you can impress the prospective boss by reciting just the right line, say, from Dylan Thomas: "do not go gentle into that good night/rage rage against the dying of the light." Or at a party some time, you'll be able to show off with a bit of T.S. Eliot: "in the room the women come and go, talking of Michelangelo." In this seminar, we will read a number of classic poems as well as a number of other (perhaps lesser, but still memorable) poems, and discuss them. The poems cut across centuries and types. Students will be encouraged to find other poems for the group to read. Participants will be required to memorize and recite 50-75 lines of their choice, and to prepare a short annotated anthology of their favorite poems.

Steve Tollefson, a lecturer in the College Writing Programs, is the author of four books on writing and grammar as well as articles on a variety of subjects and several short stories. He is a recipient of the campus Distinguished Teaching Award.

**Comparative Literature 24, Section 2
Telling Tales (1 unit, P/NP)
Professor Kathleen McCarthy
Friday 1:00-2:00, 202 Wheeler Hall, CCN: 17287**

In this class, we'll examine the special form of communication that happens when we tell stories. Narrative is a such a common way of conveying information, attitudes or perspectives that it can seem almost to work invisibly, but part of our goal in this class will be to learn how stories work, why they take the forms they do, what effects can arise from specific choices in how they are told, etc. Although we will study stories in some familiar realms (literature, journalism, film), we will also explore some recent debates as to the role of narrative in areas such as law, politics and medicine.

Kathleen McCarthy is an Associate Professor of Classics and Comparative Literature. Her scholarly work has centered on the interaction of literary forms and social institutions, for example, the role slavery plays in Roman comedy or the effects of social hierarchy on lyric form. She teaches classes on a wide variety of topics including narrative theory, Latin poetry, religion in ancient literature and lyric in historical context.

**Earth and Planetary Sciences 24, Section 1
Geosciences in the Movies (1 unit, P/NP)
Professor Michael Manga
Wednesday 2:00-5:00, 401 McCone Hall, CCN: 19351**

Movies can be an effective way to spread information about science and its relevance to society. Science in movies, however, is often wrong and misleading. In this seminar we will watch and critique a set of modern popular movies that address topics in geoscience, environmental science, and planetary science. Is the science right? Does it matter? Was the movie effective? Movies to be discussed and reviewed cover topics in planetary science that range from the core to the search for life beyond our solar system.

Michael Manga is a Professor of Earth and Planetary Science. His areas of expertise include planetary science, fluid mechanics, hydrology, geodynamics, and physical volcanology. For more information regarding Professor Manga, please visit his faculty webpage at http://eps.berkeley.edu/development/view_person.php?uid=175059.

Education 24, Section I
Civil Rights Law in Higher Education (1 unit, LG)
Assistant Provost Sheila O'Rourke
Wednesday 4:00-5:30, 4529 Tolman Hall, CCN: 23524

This seminar will meet the first ten weeks of the semester.

This seminar will provide an introduction to civil rights issues in higher education such as affirmative action, race discrimination, sexual harassment, sex discrimination, regulation of hate speech, and civil rights protections for lesbian/gay/bisexual students. Reading materials will include actual court cases involving colleges and universities, as well as articles and commentaries. Students will be expected to complete weekly reading assignments and participate in classroom discussions.

Sheila O'Rourke is Assistant Provost for Academic Affairs at UC Berkeley. She was formerly the Assistant Vice Provost for Equity and Diversity at the the University of California Office of the President. She received her A.B. from Stanford, her J.D. from Boalt Hall and is a member of the California Bar. She previously served as a civil rights attorney for the U.S. Department of Education, Office for Civil Rights, where she was responsible for the enforcement of federal civil rights laws in education. She has taught constitutional law at the University of San Francisco Law School and legal writing at Stanford Law School.

Electrical Engineering and Computer Science 24, Section I
Gadgets Electrical Engineers Make (1 unit, P/NP)
Professor Jeffrey Bokor
Thursday 10:00-11:00, 125 Cory Hall, CCN: 25239

This seminar is intended to offer a taste of how the hardware that is powering the information age really works. Electrical engineers must invest considerable effort to learn their science and math fundamentals. Eventually, though, the fun comes in building innovative and practical gadgets. We will side-step the science and math and get right into the hardware. We'll take a look at what's inside some of today's most exciting products and technology as well as look ahead at the future products that are just around the corner. Our focus will be on hardware and we will see how much fun engineers can have using their hands other than by typing on a keyboard.

Jeffrey Bokor received the B.S. degree in electrical engineering from the Massachusetts Institute of Technology in 1975, and the M.S. and Ph.D. degrees in electrical engineering from Stanford University in 1976 and 1980, respectively. From 1980 to 1993, he was at AT&T Bell Laboratories where he did research on novel sources of ultraviolet and soft X-ray coherent radiation, advanced lithography, picosecond optoelectronics, semiconductor physics, surface physics, MOS device physics, and integrated circuit process technology. He held management positions as head of the Laser Science Research Department at Bell Labs in Holmdel, NJ, from 1987 to 1990, and head of the ULSI Technology Research Department at Bell Labs in Murray Hill, NJ, from 1990 to 1993. Dr. Bokor was appointed Professor of Electrical Engineering and Computer Sciences at the University of California at Berkeley in 1993, with a

joint appointment at the Lawrence Berkeley National Laboratory (LBNL). In 2004, he was appointed as Deputy Director for Science at the Molecular Foundry at LBNL, a major new nanoscale science research center. His current research activities include novel techniques for nanofabrication, new devices for nanoelectronics, quantum information processing, extreme ultraviolet lithography, optical metrology, and Fourier optics. He is a fellow of IEEE, APS, and OSA.

English 24, Section 1
Shakespeare's Sonnets (1 unit, P/NP)
Professor Alan Nelson
Monday 12:00-1:00, 205 Wheeler Hall, CCN: 28043

Shakespeare's sonnets were first published in 1609. Although little is known about how they were first received by the reading public, they are known to have caused delight and puzzlement since their second edition in 1640. Over the course of the semester, we will read all 154 sonnets, at the rate of approximately ten per week. All students will be expected to participate actively in seminar discussions, and present both informal and formal oral reports.

Alan H. Nelson is Professor Emeritus in the Department of English. His specializations are paleography, bibliography, and the reconstruction of the literary life and times of medieval and Renaissance England from documentary sources.

English 24, Section 2
Hamlet (1 unit, P/NP)
Professor Morton D. Paley
Wednesday 2:00-4:00, Central L45 in Unit III, CCN: 28046

This seminar will meet the first eight weeks of the semester, beginning August 26, 2009 and ending October 14, 2009. Professor Paley looks forward to dining with his students twice during the semester: before the third meeting and before the last (eighth) meeting. Food for Thought dining arrangements will be discussed in class.

Hamlet is perhaps the greatest, the most challenging, and at times the most frustrating play in the English language. In this course we will concentrate intensively on the text (which will be the only assigned reading). We'll consider questions of interpretation, motivation, staging, and poetics, among others. Some questions we'll address: Does Hamlet think the flesh is "sullied" or "solid"? Did Gertrude know about Claudius' murder of old Hamlet? When Hamlet tells Ophelia "get thee to a nunnery," does he mean a brothel? Is Polonius' advice to Laertes sage or silly? Does Hamlet delay? Does he have an Oedipus complex? How old is he? How do we go about answering questions like these? During the course of our half-semester course, each of you will do a short (10-15 minute) seminar presentation (or, if you wish, a 20-30 minute presentation in collaboration with another student). There'll be a list of possible subjects for you to choose from, and we'll have a conference beforehand. Then you'll do a one-page write-up of what you presented, and I'll return it to you with written comments. By meeting six you'll write a short (1500 word essay). It may grow out of your initial presentation, or be on an entirely different subject. There will be ample time for you to confer with me on this. I'll return your essay with my comments at meeting seven. Please bring the text with you every time. **The only requisite for enrollment is that you be a freshman. No previous knowledge of Shakespeare is expected. This seminar is part of the Food for Thought Seminar Series.**

Morton D. Paley's special interest is the relationship between British literature and the fine arts in the eighteenth and nineteenth centuries. He has written several books on aspects of this subject. His most recent is Samuel Taylor Coleridge and the Fine Arts, published by Oxford UP in 2008.

English 24, Section 3

**Animal Rights and Disability Studies (I unit, P/NP)
Professor Susan Schweik and Ms. Sunaura Taylor
Monday 5:00-6:00, 202 Wheeler Hall, CCN: 28049**

Food for Thought dining arrangements will be discussed in class.

This seminar will examine the intersections between two concepts and two movements: animal rights and disability rights. Exploring work done in gender and women's studies, critical race studies, disability studies, and thinking on animal rights, we will trace some philosophical and historical connections between two seemingly separate fields. From protesting the views held by controversial philosopher (and major animal rights advocate) Peter Singer to making uncomfortable parallels between human and pet "euthanasia," disability advocates have had a tenuous relationship with the animal rights movement. But is this tension inevitable, or is there more common ground to be had? On what basis, and with what consequences, do notions of disability rights and/or human rights found themselves in a moral and ethical philosophy that justifies excluding other species? Can that exclusion be upheld? This seminar will provide a survey of some key points in both disability studies and work on animal rights. We will explore definitions of and questions and controversies regarding some basic terms: "disability," "animality," "rights," "human." Readings will include excerpts of work by Peter Singer, Harriet McBryde Johnson, Simi Linton, Gary Francione, Carol Adams, Bob and Jenna Torres, and Ruth O'Brien. We will also follow two podcasts and watch some films together. Writing: journal entries due in each class with questions and comments on the day's reading, gathered together and expanded into a portfolio at the end of term. Grading will largely be based on participation in class discussions. Debate welcome and expected! **No background in these issues is needed or expected. This seminar is part of the Food for Thought Seminar Series and part of the On the Same Page initiative: <http://onthesamepage.berkeley.edu>.**

Susan Schweik is a Professor of English and Co-Director of the Disability Studies Minor at UC Berkeley.

Sunaura Taylor (MFA, Berkeley 2008) currently writes for various blogs on the subject of animal rights and is co-editing a book on the relationship between disability studies and animal rights.

**English 24, Section 4
The Mysteries of Edwin Drood (I unit, P/NP)
Professor Robert Tracy
Monday 3:00-5:00, Room L20 in Unit II, CCN: 2805 I**

This seminar will meet for eight weeks, beginning September 14, 2009 and ending November 2, 2009.

Dickens's last novel, *The Mystery of Edwin Drood*, is the most successful mystery story ever written. Dickens died before finishing it, or solving the mystery. Unlike other mystery stories, it fails to reassure us that justice is done, and forces us to accept the absence of closure. We must move beyond reassurance into the larger mysteries of motivation and behavior that lie behind any crime. Dickens is writing a new kind of novel, in which the imaginative process and its translation into writing become the central subject. At the peak of his powers, Dickens is exploring his own motivations as a writer, and the geography of his own imagination. If possible, please read chapter I for the first meeting. The required text is Charles Dickens, *The Mystery of Edwin Drood*, ed. David Paroissien (Penguin 2002). **Students eager to discuss not only the content but the motivation of a text, and to speculate on what this enigmatic and unfinished novel is really about are encouraged to enroll.**

Robert Tracy is Emeritus Professor of English and of Celtic Studies. He has served as Visiting Professor of Anglo-Irish literature at Trinity College, Dublin; of American literature at Leeds University; and of Slavic Studies at Wellesley; and has been Associate Director of the University of California Dickens Project. His publications include a study of Trollope's novels, editions of works by Synge, Trollope, Le Fanu, and Flann

O'Brien, and Stone, a translation from the Russian of poems by Osip Mandelstam. His *The Unappeasable Host: Studies in Irish Identities* was published in Dublin in July 1998.

English 24, Section 5

California and Ethnicity: Fiction and Film (1 unit, P/NP)

Professor Genaro Padilla

Wednesday 4:00-6:00, 300 Wheeler Hall, CCN: 28054

This seminar will meet for eight weeks, beginning August 26, 2009 and ending October 14, 2009. Food for Thought dining arrangements will be discussed in class.

We will read and view a group of narratives (in fiction and film) that delineates the California experience across ethnicity, race, gender and class. **This seminar is part of the Food for Thought Seminar Series.**

Genaro Padilla is Associate Professor of English and Faculty-in-Residence at the Clark Kerr Campus.

Environmental Science, Policy, and Management 24, Section 1

Issues in Natural Resource Conservation (1 unit, P/NP)

Professor David Wood

Friday 9:00-10:00, 106 Mulford Hall, CCN: 28972

There is one optional field trip to a Bay Area location on a Saturday or Sunday from 8:00 am to 3:00 p.m. to be arranged.

Some of the issues to be dealt with include management and preservation of timberlands; reducing fire risk through logging; management in wilderness areas; endangered species; importation and exportation of logs; the lives of John Muir and Gifford Pinchot; trees and religion; can rain forests be saved?; killer bees; coral reefs—human threat; jobs versus spotted owls; vegetarianism; Muir Woods, past and present; garbage in the United States; biofuels; solar power; airport expansion in the San Francisco Bay Area; the competition for water; global warming; and many more topics to be selected by the students.

Professor Wood's research interests include host-selection behavior of forest insects, chemical ecology, the biology and ecology of bark beetles, forest pest management, the biodeterioration of wood by insects, and insect/pathogen/tree interactions.

Environmental Science, Policy, and Management 24, Section 2

Insects, Ticks, and Human Diseases (1 unit, LG)

Professor Robert Lane

Thursday 2:00-3:00, 306 Wellman Hall, CCN: 28975

This course is intended to examine the impact of insects, ticks, and the disease agents they transmit on human society. A few lectures will be presented on such globally important diseases as Lyme disease and plague. Various laboratory procedures used to study the relationship of ticks to animal disease agents will be demonstrated. Students will be expected to participate in group discussions of selected readings.

Robert Lane is a Professor in the Department of Environmental Science, Policy & Management. He received his doctoral degree in medical entomology at UC Berkeley. His current research interests include the ecology, epidemiology, and control of tick-borne diseases, especially Lyme disease. He also has extensive experience studying the behavior and biology of bloodsucking flies that annoy humans and other animals.

Environmental Science, Policy, and Management 24, Section 3
Discussions on Evolutionary Biology (1 unit, P/NP)
Professor Philip Spieth
Wednesday 3:00-4:00, 106 Mulford Hall, CCN: 28978

Discussions on Evolutionary Biology is a seminar for freshmen that explores the intellectual excitement of evolutionary biology and examines its significance for understanding the world we live in. Weekly readings and roundtable discussions introduce basic facts and principles of evolutionary biology, including both historical perspectives and contemporary issues. Attention is given to popular misconceptions of biological evolution.

Philip T. Spieth is an Emeritus Professor in the Department of Environmental Science, Policy, and Management who worked with computer models of evolution and studied genetic variation in natural populations of fungi. He joined the faculty of the former Department of Genetics in 1971 and taught population genetics for thirty years at UC Berkeley in both introductory genetics courses and in courses for advanced undergraduates and graduate students and has been a co-author of a general genetics textbook. He created and has taught Discussions on Evolutionary Biology since the inception of the freshman seminar program in the early 1990's. Currently he works with the National Center for Science Education, a nonprofit organization devoted to the teaching of evolutionary biology in public schools.

Environmental Sciences 24, Section 1
Sustainability: The Future is Now (1 unit, P/NP)
Professor William Berry
Wednesday 4:00-5:00, 72 Evans Hall, CCN: 30627

This seminar includes a review of issues involved in sustainability of our resources and environment. Topics to be discussed include green buildings-sustainable architecture, the energy-transportation-air-quality-health connections, managing our wastes, uses and abuses of our water, and impacts of farming and marketing practices on our food and on enhancing use of organics.

Professor Berry teaches a number of courses in basic environmental science and has both research and teaching programs in impacts of climate change on environmental changes and on biodiversity. He directs an internship program in which students assist Bay Area environmental science teachers.

Ethnic Studies 24, Section 1
President Obama and Cuba: Where to go after Fidel? (1 unit, LG)
Professor Alex Saragoza
Wednesday 3:00-4:00, 250 Dwinelle Hall, CCN: 30844

This seminar will examine a delicate question for President Obama's foreign policy toward Latin America: what to do about Cuba. To the displeasure of the U.S. during the Bush presidency, several leaders in the region criticized U.S. policies. A case in point is Hugo Chavez of Venezuela, who cultivated a relationship with Cuba and an association with Fidel Castro (who has recently relinquished formal power to his brother, Raul). For President Obama, the question of Cuba invites thorny domestic and foreign policy questions, e.g., the role of Cuban Americans in a key electoral state (Florida). Cuba, however, also symbolically represents the views of Latin America toward the neoliberal policies that marked the Bush administration. Will President Obama remain tied to the "hard line" on the relaxation of the embargo toward Cuba? What concessions if any might the Obama administration make toward Cuba? Where might the relations go between the two countries now that the Bush administration is over? What impacts will an Obama foreign policy have on Cuba's stance toward the U.S. within the larger context of U.S. policies toward Latin America? These and related questions will be the focus of this seminar.

Alex M. Saragoza formerly served as Chair of the Center for Latin American Studies at Berkeley for four years, and he also served as the campus Director of International Education programs for three years; he

also led two study tours to Cuba for UC Berkeley Extension in 2002 and 2003 (before the current travel restrictions were imposed by the White House); he has visited Cuba on several occasions and is currently conducting research on a comparative study of Mexican and Cuban tourism. A specialist on modern Mexico, he is an associate professor of history in the Department of Ethnic Studies.

French 24, Section I
Language and Technology (I unit, P/NP)
Professor Richard Kern
Monday 2:00-3:00, 33 Dwinelle Hall, CCN: 32314

This seminar focuses on relationships between technologies of communication and language use. Starting from an historical perspective on technologies of writing and their relationships to cultures of reading and writing, the seminar will consider current questions about computers, literacy, and language use: How do computer environments affect how we use language? What does it mean to be 'literate' in an age of electronically mediated communication? How do notions of 'text', 'reader', and 'writer' change as new media, new discourse communities, and new literacy practices take hold? What kinds of meaning-making abilities do people develop to participate successfully in communities that rely on forms of electronic communication? How do people acquire these abilities?

Professor Richard Kern teaches courses in French language and linguistics, applied linguistics, and foreign language pedagogy. His interests include second-language acquisition, psycholinguistics, reading, writing, and relationships between technology and language use. He is also Director of the Berkeley Language Center.

Geography 24, Section I
Food & Agribusiness (I unit, P/NP)
Professor Richard Walker
Monday 12:30-2:00, 575 McCone Hall, CCN: 36438

This seminar will meet for ten weeks, beginning August 31, 2009 and ending November 9, 2009.

In this seminar, we will read and discuss three key books on food and agribusiness: Michael Pollan's *Omnivore's Dilemma*, Eric Schlosser's *Fast Food Nation* and Richard Walker's *The Conquest of Bread*. If time allows, we'll add Melanie Dupuis's *Nature's Perfect Food*. **This seminar is part of the On the Same Page initiative: <http://onthesamepage.berkeley.edu>.**

Richard Walker has been a Professor of Geography at Cal since 1975. He is author of four books on economic geography, agribusiness and environmentalism. He is an expert on California and Chair of the California Studies Center. Professor Walker teaches courses on the world economy, the Bay Area, American cities, etc.

History 24, Section I
Exploring Napoleon (I unit, LG)
Professor Roger Hahn
Monday 10:00-12:00, 2303 Dwinelle Hall, CCN: 39234

This seminar will meet the first eight weeks of the semester.

How is Napoleon to be remembered? As a military genius, a liberator, a conquering hero—or rather as a ruthless dictator who overstepped his ambitions to rule Europe and the Middle East?

Roger Hahn is a Professor Emeritus in the Department of History at UC Berkeley. He has taught at Harvard University, University of Paris, and University of Delaware. For information regarding Professor Hahn's educational background, honors, professional activities, and publications, please visit his faculty web page at <http://history.berkeley.edu/faculty/Hahn/>.

History of Art 24, Section 3
Looking at Berkeley Buildings (1 unit, P/NP)
Professor David Wright
Monday 11:00-1:00, 425 Doe Library, CCN: 05402

Attendance at the first seminar meeting is necessary. This seminar will meet for twelve weeks, beginning August 31, 2009 and ending November 23, 2009. Food for Thought dining arrangements will be discussed in class.

This seminar is based on close study of the best buildings on campus and includes comparison with some of the worst. The goal is to learn to analyze buildings objectively, to understand the rationale behind buildings in different styles, and to develop criteria for a balanced judgment of them. We will also study the 1899 ideal plan for the campus, the official 1914 plan, and the present state of the arrangement of buildings, plazas, and planting on campus. There will be weekly study assignments to look closely at specific buildings, to make very simple drawings of them (no experience or talent expected) and to write short descriptive comments. Two-hour classes will normally begin with a discussion of the current assignment, will include a short slide lecture for background for the next assignment, and will end with a collective visit to a building involved in the assignments. No reading; lots of walking, looking, and discussing; some drawing and writing. The final very short paper will be a critical report on a building chosen by the student. **This is a Liberal Arts course, but students of Civil Engineering are specially invited to enroll. This seminar is part of the Food for Thought Seminar Series.**

Professor David H. Wright completed the requirements in Physics at Harvard in three years, just after the war; however, for his general education requirement, he took a course with the Dean of the School of Design. That course and two other courses in history of art persuaded him to switch and graduate in Fine Arts, and to take the Bauhaus Basic Design course with Joseph Albers. He has taught at Berkeley since 1963. All his scholarly publications concern Late Antiquity and the Dark Ages, but he cares passionately about the architecture and civic design we live with every day.

Industrial Engineering and Operations Research 24, Section 1
Overview of IEOR (1 unit, P/NP)
Professor Ken Goldberg
Wednesday 4:00-5:00, 3105 Etcheverry Hall, CCN: 41003

Industrial Engineers look at the big picture of what makes societies perform best. We design optimal combinations of people, information, materials, and equipment that produce innovative and efficient organizations. This seminar provides a general introduction to the field and profession. Each week a faculty member or graduate student from the IEOR Department will discuss his or her work in communications, ecommerce, entertainment, finance, food, health, logistics, manufacturing, medicine, pharmaceuticals, semiconductors, sports, travel, or transportation.

Ken Goldberg is Professor of IEOR at UC Berkeley, with appointments in EECS and the School of Information. Goldberg was named IEEE Fellow in 2005 and serves (2006-2009) as Vice-President of Technical Activities for the IEEE Robotics and Automation Society. He is Founding Chair of the IEEE Transactions on Automation Science and Engineering (T-ASE) Advisory Board. For more information regarding Professor Goldberg, visit <http://goldberg.berkeley.edu>.

Integrative Biology 24, Section 1
Animal and Human Navigation: Which Way Is Home? (1 unit, LG)
Professor Roy Caldwell
Monday 2:00-3:00, 5192 Valley Life Sciences Building, CCN: 43003

A homing pigeon can return to its loft after being shipped one thousand km to a place it has never been. A whale spends its summers in the Bering Sea and its winters near Maui. A female sea turtle returns for the first time to a beach where she hatched thirty years earlier to lay her own eggs. A Monarch butterfly flies south two thousand km to spend the winter in a secluded grove in central Mexico. A limpet returns forty cm to a favorite depression in a rock. The abilities of animals to navigate have intrigued biologists for decades. We will read a series of papers describing how animals navigate and how they use such methods as landmarks, celestial cues, and geomagnetic fields to determine where to go and what route to follow. We will also attempt to replicate experiments that suggest that humans are able to navigate using geomagnetic fields. At the end of the semester, each student will be required to write a short review paper discussing navigation and orientation by an animal of his or her choice. **This seminar is designed for students with a general interest in animal biology and more specifically animal behavior. Registration for this seminar is by instructor approval only. Interested students should put their names on the waitlist and then attend the first class meeting.**

Roy Caldwell is a Professor of Integrative Biology with a background in insect migration and marine invertebrate animal behavior.

Integrative Biology 24, Section 2
Biology: The Study of Life (1 unit, P/NP)
Professor Tyrone Hayes
Wednesday 5:00-6:00, 5192 Valley Life Sciences Building, CCN: 43006

Food for Thought dining arrangements will be discussed in class.

Biology: The Study of Life is a course primarily designed for non-science majors. The course will examine scientific issues that we are confronted with in our everyday life: health and nutrition, reproduction, etc. The seminar will focus on current events and political issues that we are confronted with today: what is stem cell research? intelligent design? pesticide reform? bio-fuels? genetically modified organisms? **Non-science majors are encouraged to enroll. This seminar is part of the Food for Thought Seminar series.**

Tyrone Hayes is a Professor of Integrative Biology. He received his Bachelor's degree from Harvard and his PhD from the Department of Integrative Biology, UC Berkeley. Professor Hayes is a developmental endocrinologist whose research focuses on the role of hormones in development and the impact of pesticides on amphibian development and in human cancer. For more information regarding Professor Hayes, visit atrazinelovers.com.

Integrative Biology 24, Section 3
The Stone Age (1 unit, P/NP)
Professor Tim White
Wednesday 3:00-5:00, 18 Hearst Gym, CCN: 43009

This seminar will meet the first eight weeks of the semester.

This seminar is an overview of human evolution and prehistoric archaeology. The seminar considers the methods and findings of human evolutionary studies, and introduces laboratory and field investigations into this topic. It will cover the biological and technological evidence of human evolution across the last six million years, and will focus on current debates about human origins. Hands-on experience with fossils

and artifacts from around the world will be an integral part of the seminar. Students will be introduced to primary research papers and will be encouraged to critically evaluate published claims about human evolution and related subjects. **Enrollment is limited to first-semester freshmen.**

Professor Tim White has taught at all levels on the Berkeley campus for twenty-seven years, first in the Anthropology Department, and now in Integrative Biology. He conducts fieldwork in Africa and Eurasia and has made many discoveries relating to the topic of the seminar. He co-directs Cal's Human Evolution Research Center and is the Curator of Biological Anthropology in the Hearst Museum of Anthropology.

Integrative Biology 24, Section 4

The Age of Dinosaurs: What Do We Know? (1 unit, LG)

Professor Kevin Padian

Wednesday 12:00-1:00, 5192 Valley Life Sciences Building, CCN: 43012

Dinosaurs were big funny animals, and "Jurassic Park" was cool. But what's behind all this? In this seminar we use dinosaurs to explore how we know what we know about extinct life, and the methods and approaches that scientists use to study evolution in general. We also explore common myths, such as the idea that dinosaurs were slow and slow-witted, and that an asteroid drove them to extinction. Berkeley's Museum of Paleontology is the largest collection of fossils in any university in the world, and we use it on a weekly basis in this course. A notebook, some writing, and strong initiative in participation are required. **You don't need any preparation for this course except an interest in the subject and the desire to understand how science is constructed.**

Kevin Padian has been teaching at Berkeley for thirty years, mostly courses in evolution, paleontology, and the history of these fields. Research in his lab centers on how large-scale changes get started in evolution, particularly the major new adaptations in vertebrates such as flight, the emergence of dinosaurs, and the evolution of unusual structures and behaviors. He also spends a lot of time on the creation-evolution issue, educating the public about what science is and isn't.

Integrative Biology 24, Section 5

How and Why Do Birds Sing (1 unit, P/NP)

Professor George Bentley

Tuesday 2:00-3:00, 4110 Valley Life Sciences Building, CCN: 43015

Do you ever wonder why some birds sing and others just call? Would you like to know how songbirds produce such melodious tunes? What about the dawn chorus? Sexual attraction? Aggression? It's just the day-to-day life of songbirds. Come and learn about the anatomy and physiology of birdsong, from the specialized organs to highly evolved brains. Find out how bird song can cause hormones to surge. This seminar will cover the hows and whys of vocal communication in birds with an emphasis on what classic and cutting-edge research has taught us.

George Bentley received his B.Sc. in biology (1993), and his Ph.D. in zoology (1996) at the University of Bristol in the United Kingdom. Following receipt of his doctorate, Dr. Bentley joined the Behavioral Neuroendocrinology Group at Johns Hopkins University, initially as a postdoctoral fellow and later as an associate research scientist. In January 2000, Dr. Bentley moved to Professor John Wingfield's laboratory at the University of Washington as a research associate in the Departments of Psychology and Biology. Dr. Bentley moved to Berkeley in June of 2005, where he is an Assistant Professor in the Department of Integrative Biology and his lab focuses on how the brain detects environmental cues and turns them into hormonal signals. These signals in turn affect the behavior and physiology of the organism itself, or organisms to which the behavior is directed. For example, a male bird's song can cause a female to solicit copulation and change her hormonal status. Exactly how the brain performs this feat is largely unknown, but birds are an excellent model for this type of research as they have extravagant auditory and visual displays. The research in Dr. Bentley's lab is mostly performed on birds, but is not limited to this vertebrate class. Current projects in the lab involve sheep, horses, rats, mice, hamsters and humans; many

of these projects are in collaboration with other labs around the world (Japan, New Zealand, Germany, United Kingdom). Undergraduates are especially encouraged to get involved in active research projects. Currently, there are nine undergraduates working in the Bentley lab on neuroendocrine mechanisms of regulation of reproduction and on the neural basis of song behavior. For more information regarding Dr. Bentley, visit http://ib.berkeley.edu/research/interests/research_profile.php?person=17.

Integrative Biology 24, Section 6
Nature in an Age of Global Warming (1 unit, P/NP)
Professor Anthony Barnosky
Wednesday 2:00-3:00, 4110 Valley Life Sciences Building, CCN: 43018

In the past two years a floodgate has opened, with books, movies, and innumerable news reports all publicizing that global warming is real, that people are causing it, and that we all are wondering how the world will change as a result. One of the major changes will be in what happens to Earth's ecosystems. This course will explore the ecological impacts of global warming and what we can do to save nature in the Age of Global Warming. **This seminar is for students who want to be exposed to a broad spectrum of ecological and societal issues associated with global warming, and to learn how what they do as an individual can have an impact on the world.**

Anthony Barnosky is a Professor of Integrative Biology, Curator in the Museum of Paleontology, and Research Paleocologist in the Museum of Vertebrate Zoology. His research focuses on using the paleontological record to understanding the effects of environmental changes on ecosystems. For more information regarding Professor Barnosky, visit <http://ib.berkeley.edu/labs/barnosky/adbprofile.htm>.

Integrative Biology 24, Section 7
The Future of Marine Ecosystems (1 unit, LG)
Dr. Kelly Dorgan
Monday 5:00-6:00, 4110 Valley Life Sciences Building, CCN: 43020

Food for Thought dining arrangements will be discussed in class.

This seminar is an overview of marine ecosystems and how different ecosystems are affected by anthropogenic stresses, including climate change. This seminar will emphasize the interdisciplinary nature of oceanography and how marine organisms are affected by the physics, chemistry, and geology of the oceans. Human impacts on the ocean are substantial, and vary in different marine environments as well as on different temporal and spatial scales. Students will be introduced to primary research papers and will critically evaluate scientific literature as well as information on the oceans from different media sources. **Discussion of marine mammals will be minimal; please do not sign up for this course because you love dolphins. This seminar is part of the Food for Thought Seminar Series.**

Kelly Dorgan is a post-doctoral researcher at Berkeley and has a Ph.D. in oceanography. She studies coastal sedimentary ecosystems and has done research in Maine, Washington, and Virginia and now works in San Francisco, Tomales, and Bodega Bays. Her research focuses on the biomechanics and energetics of worm burrowing.

Journalism 24, Section 1
Opinion Writing (1 unit, LG)
Lecturer Susan Rasky
Monday 12:00-1:00, 104 North Gate Hall, CCN: 48003

This is a class to help students with journalistic interests sharpen their writing and analytical skills in a format that demands clarity of thought and economy of words. We will begin where all good writing

begins, with solid, efficient reporting on a range of social and cultural topics. We'll experiment with voice and style to see how pithy, insightful and profound we can be—about big issues and small ones—in about 400 (for broadcast commentary) to 850 polished words every week or two. Weekly readings and finished opinion pieces will be posted to a student website. Students will be required to submit one 800 word piece to the Berkeley Political Review. **Enrollment is limited to twelve freshmen. Students with journalistic interest or background are encouraged to enroll.**

Susan Rasky was the congressional correspondent for The New York Times. A winner of a George Polk Award for National Reporting, she began her career in Washington, D.C., covering economic policy for the Bureau of National Affairs, Inc. and later reported for Reuters from Capitol Hill and the White House. After joining the Berkeley faculty, Rasky was a columnist and contributing editor for the California Journal as well as a frequent political commentator for the Los Angeles Times, The Sacramento Bee and NPR. She established and supervises the J-School's California News Service, which gives students experience covering government and politics for news organizations throughout the country. Rasky received her bachelor's degree in history from the University of California at Berkeley and holds a master's degree in economic history from the London School of Economics. She is a native of Los Angeles.

Journalism 24, Section 3

Revisiting World War II Through the Documentary Lens (1 unit, LG)

Professor William J. Drummond

Friday 12:30-2:00, 104 North Gate Hall, CCN: 48006

This seminar will meet for ten weeks, beginning August 28, 2009 and ending October 30, 2009.

This seminar will explore the events of 1939-1945 by examining what many experts believe to be the greatest historical TV series ever made: The World at War. This monumental work, originally broadcast thirty years ago, has been reissued. In DVD the boxed set contains 22 hours and 37 minutes of original programming, plus another 12 hours of extras, including a detailed account of how the series itself was made. It was seventy years ago in August, 1939, that the Second World War began, and its shadow hangs over relations between nations today from Middle Europe to the Middle East. The generations born since the war's end have slowly lost touch with the staggering human costs and the equally staggering questions of personal and national responsibility. The goal of this class is to make use of the documentarian's art to reopen these questions and examine them in light of new information and new sensibilities. **Enrollment is limited to fifteen freshmen.**

William J. Drummond joined the faculty in 1983 after a career in public radio and newspapers. He continues to produce occasional public radio reports and documentaries. From 1979 to 1983 he worked in Washington for National Public Radio, where he was the first editor of Morning Edition before moving on to become National Security Correspondent. He has produced documentary-length radio programs on a wide range of subjects: Native Americans and welfare reform; jazz diva Betty Carter; Allensworth: the pioneering Negro colony in the California Central Valley; a profile of a psychiatrist whose specialty is interviewing serial killers; the early Jim Crow days in Las Vegas; an examination of why Americans are turned off by the political system; and a look at the tension between Malcolm X and Martin Luther King, as seen through the eyes of youth. His honors include a 1989 citation from the National Association of Black Journalists for "Outstanding Coverage of the Black Condition," the 1991 Jack R. Howard Award for Journalism Excellence, and a 1994 Excellence in Journalism Award from the Society of Professional Journalists' Northern California Chapter for an advanced reporting class experiment in civic journalism. He was a member of the planning committee that created the Public Radio International program The World.

Landscape Architecture 24, Section I

The River on Film (1 unit, P/NP)

Professor G. Mathias Kondolf

Monday 6:00-8:30, 315C Wurster Hall, CCN: 48503

This seminar meets eight weeks, with the first meeting August 31st, and other dates TBA. Because of the time required to screen the films, the course meets for a longer time than the standard seminar, but not every week. In addition to seminar meetings, there are required screenings at Pacific Film Archive (PFA).

Rivers have always drawn artists, inspired by the river's form and movement, and its intimate relation with human settlement from ancient times to present. Rivers were frequent subjects of the large-format landscape paintings that toured the American hinterland in the nineteenth century, a precursor to films, and with the emergence of film in the early twentieth century filmmakers were quick to exploit the medium's ability to capture fluvial form and movement, and its relation to human life. One popular narrative has been the river journey as road movie, in which the protagonists undertake a trip down a river and are transformed by their experience. Both filmmaking and large dam construction developed in the twentieth century, and large dams have long been popular subjects of films, by virtue of their scale and symbolic importance (ranging from government propaganda pieces, to adventure epics, to evocations of river life). This course involves viewing films featuring rivers, floods, and dams, and guest lectures by Nick Edwards, a film consultant. Course requirements include viewing films, reading, participating in discussion, and writing a short (two-page) research paper requiring use of the PFA library. Students enrolled in the class are admitted free to selected PFA screenings. Readings are posted on-line (password-protected) on class web.

Dr. G. Mathias (Matt) Kondolf is Professor of Environmental Planning at UC Berkeley and a fluvial geomorphologist specializing in environmental river management and restoration of rivers and streams. He was a principal investigator in a recent national-level study of river restoration, a member of the Environmental Advisory Board to the Chief of the US Army Corps of Engineers, and a member of the National Research Council Committee on Hydrology, Ecology, and Fishes of the Klamath River Basin. Dr. Kondolf was an author of the CALFED Ecosystem Restoration Program Strategic Plan. He developed the restoration flow regime adopted in the 2006 settlement to restore salmon in the San Joaquin River below Friant Dam.

**Linguistics 24, Section 1
Language Myths (1 unit, P/NP)
Professor Larry Hyman
Wednesday 10:00-11:00, 105 Dwinelle Hall, CCN: 52248**

Everyone has preconceptions about language in general and languages in particular. But are these accurate? In this course we will discuss and evaluate a number of common language myths such as these: Are all languages equally complex? Are some more logical? More beautiful? Is there such a thing as a primitive language? Do some people speak more grammatically than others? Is the English language undergoing a process of decay? We will draw on facts from English, other languages that may be familiar to participants, and less known languages which bear on the above and other questions. **No linguistic or other prerequisites are required. All interested students are welcome, especially students who have a fascination with language and/or languages.**

Larry M. Hyman is a Professor of Linguistics at Berkeley where he chaired the Department of Linguistics from 1991 to 2002. He obtained his Ph.D. at UCLA in 1972 and subsequently taught at USC until coming to Berkeley in 1988. His research centers around the study of sound systems (phonology) and grammar, particularly within Bantu and other Niger-Congo languages in Africa. His publications include several books and numerous articles in the major journals in general and African linguistics. One of his long-standing interests is the study of tone languages, as found in Africa, Asia, Meso-America and elsewhere.

**Linguistics 24, Section 3
Translation and the English Bible (1 unit, P/NP)**

Professor Richard Rhodes
Wednesday 11:00-12:00, 180 Barrows Hall, CCN: 52692

Food for Thought dining arrangements will be discussed in class.

We live in a time in which conservative Christians are bringing their faith into the public discourse. Most of that faith is based on particular readings of the Bible. A surprising number of those readings are deeply affected by the wording of particular English translations. In this seminar we will critique a representative variety of English translations with a focus on the New Testament. Topics will include the linguistic situation in Roman Palestine, distinguishing between linguistic and theological questions, the role of translation traditions, and the roles of contemporary linguistic and translation theory in English Bible translation. **No linguistic or other prerequisites are required. Anyone with a fascination with language and/or languages is welcome. Some interest in the Bible would be helpful, but this class is about linguistics and translation, not theology. This seminar is part of the Food for Thought Seminar Series.**

Richard A. Rhodes is an Associate Professor of Linguistics. He is best known for his work on Native American languages in both North American and Meso-America. (He is currently President of the Society for the Study of the Indigenous Languages of the Americas.) His interest in translation started with his learning to negotiate the extreme cultural and linguistic remoteness of Algonquian texts. His interest in English Bible translation arose as he began to re-examine the differences between the original Greek New Testament and the various available English translations in light of his experiences with Native American languages. He has been blogging on English Bible translation for three years. (<http://betterbibles.com/>)

Materials Science and Engineering 24, Section I
Materials in Music (1 unit, P/NP)
Professor Ronald Gronsky
Monday 2:00-4:00, 128 Hearst Memorial Mining Building, CCN: 53203

The lab will also be available from 4:00-5:00 in case students wish to stay after class to use the equipment, play music, etc.

Is a rosewood fretboard any better than a maple one? Why does the same brass cymbal go from "crash" to "clunk" when aged? Can the tonal range of magnetic pick-ups be enhanced in single-coil, humbucking, or triple-wound configurations? Does it really matter if those strings are nickel wrapped? Is platinum better? The answer to these questions lies in the microstructure of materials, as illustrated in this hands-on seminar for musicians, poets, or engineers. We will establish the relationship between the acoustical signatures of various materials used in music and their microstructures, to show how performance (tone) can be optimized through microstructural manipulation. **Enrollment is limited to twelve freshmen.**

Professor Gronsky holds the Arthur C. and Phyllis G. Oppenheimer Chair in Advanced Materials Analysis in the College of Engineering and is a recipient (2001) of the Distinguished Teaching Award. He currently conducts research on the fundamental relationship between the atomic structure and properties of materials used in nanotechnology and biomedical applications.

Materials Science and Engineering 24, Section 4
The Berkeley Experience (1 unit, P/NP)
Professor Kal Sastry
Tuesday 4:00-5:00, 348 Hearst Memorial Mining Building, CCN: 53205

Please note that the class is regularly scheduled for one hour each week; however, it will be extended by a couple of hours on two or three field trip days.

The University of California at Berkeley is a treasure house of resources, top quality students, staff and professors; remarkable lecture, lab and seminar classes and facilities; exciting athletic, student and political activities; and so on. The city of Berkeley and the San Francisco Bay Area themselves are unique and resourceful. At times, Berkeley may feel impersonal, even alienating for new undergraduate students but is not so if only one makes the first move. This seminar teaches students how to make that first move and to explore means to get the best and most out of Berkeley and the Bay Area. To this end, the class activities include visiting laboratories, libraries and professors' offices and going on field trips to campus events, nearby facilities, and even a dinner or two at local restaurants, and most significantly developing and implementing a personal plan for a unique Berkeley Experience and beyond.

Kal Sastry is a Professor Emeritus in the Department of Materials Science and Engineering. His teaching and research interests are in the broad field of minerals processing. He always enjoyed working with freshmen and sophomores and loved to teach lower-division undergraduate classes including freshman seminars on "The Story of Gold" and "The Berkeley Experience." During the past four years, Professor Sastry has been extremely active with offering customized training programs to the minerals industry. This year, he looks forward to repeating the highly successful and exciting seminar on "The Berkeley Experience."

Mathematics 24, Section 1
The Mathematics of Gambling (1 unit, P/NP)
Professor F. Alberto Grunbaum
Tuesday 11:00-12:30, 939 Evans Hall, CCN: 54242

This seminar will meet the first ten weeks of the semester.

People have gambled using dice or tossing coins for several centuries. In fact, several important areas of mathematics were developed to answer questions posed by gamblers. These pieces of mathematics eventually found unexpected applications in physics, chemistry, and several parts of engineering. We will discuss a number of questions that a gambler may consider of interest. The three guiding principles in the selection of material will be 1) it will be very elementary; 2) it will show that common sense cannot always be trusted; and 3) it will illustrate the interconnection between mathematics and several physical sciences.

Alberto Grunbaum is a Professor in the Mathematics Department at UC Berkeley. His fields of expertise include analysis, probability, integrable systems and medical imaging.

Mathematics 24, Section 2
What is Happening in Math and Science? (1 unit, P/NP)
Professor Jenny Harrison
Friday 3:00-4:00, 891 Evans Hall, CCN: 54245

In this seminar, we will discuss the latest developments in science and math. Students will present short oral reports from articles of their choice in the Science Times, Scientific American, Science News, or articles in What is Happening in the Mathematical Sciences. Discussion and debate are encouraged especially when controversial or challenging issues arise, e.g., cloning of organs, string theory, stem cell research, and geopolitics of global warming. Students are encouraged to think of applications and possibilities of new research projects. Brainstorming and creative thinking are encouraged! **Students considering a major in math or science have found this seminar a useful resource to help clarify their choice.**

Jenny Harrison obtained her Ph.D. in mathematics in Warwick, England. She has taught at Oxford, Princeton, and Yale, as well as UC Berkeley. Her research interests include a new quantum calculus that applies equally to charged particles, fractals, smooth surfaces, and soap films. Applications of this theory to sciences may arise during this seminar.

Mathematics 24, Section 3
Knot Theory (1 unit, P/NP)
Professor Robion Kirby
Tuesday 8:00-9:30, 939 Evans Hall, CCN: 54247

This seminar will meet the first week of classes and nine more dates to be arranged.

The topics in this course will involve knots in the three-dimensional sphere, and their invariants such as the fundamental group of the complement of the knot, the Alexander polynomial, and the Jones polynomial. How deep we go into these subjects depends on the knowledge, interests, and time of the students. **No prior knowledge of knot theory is necessary. Calculus is not necessary, although some mathematical maturity helps. The first seven weeks will be devoted to explaining various aspects of knot theory so that students can then do some reading to prepare a talk about their chosen topic.**

Rob Kirby has been a Professor of Mathematics at UC Berkeley since 1971. His research is on the topology and geometry of low-dimensional manifolds.

Mechanical Engineering 24, Section 1
Computer Graphics Tools (1 unit, P/NP)
Professor Dennis Lieu
Monday 5:00-6:00, 2105 Etcheverry Hall, CCN: 55803

Bitmap or vector? JPG or TIF? AutoCAD or ProE? This seminar will provide an overview of many of the computer graphics formats available today on PC's. Find out about two-dimensional drawing, three-dimensional solids modeling, animation and special effects. Students will be introduced to sophisticated technical drawing and modeling tools such as AutoCAD, Solidworks, Pro/E and 3D Studio.

Dennis K. Lieu is a Professor in the Department of Mechanical Engineering. He teaches beginning and advanced engineering design graphics classes in the College of Engineering.

Mechanical Engineering 24, Section 2
Art and Science on Wheels (1 unit, P/NP)
Professor Benson Tongue
Wednesday 11:00-12:00, 3102 Etcheverry Hall, CCN: 55805

This seminar will examine two devices near and dear to my heart—the automobile and the bicycle. Both of these have undergone a long history of change and innovation; both inspire passion in their users and both embody technical as well as artistic excellence. Some issues we will look at will be efficiency, alternative power sources, environmental impact, dynamics, aerodynamics and handling. Along the way we'll dispel some myths, and ideally people will leave with a deeper appreciation for what bicycles and cars truly represent. **Enrollment is limited to twelve students.**

Benson H. Tongue is a Professor in the Department of Mechanical Engineering and has been a member of the faculty since 1988. His interests lie in the fields of vibrations, dynamics and controls, not to mention Scottish dancing, bicycling and bird watching. He is the author of Principles of Vibrations and Dynamics: Analysis and Design of Systems in Motion.

Molecular and Cell Biology 90D, Section 1
Viruses and Cancer (1 unit, P/NP)
Professor P. Robert Beatty

Thursday 11:00-12:00, 2066 Valley Life Sciences Building, CCN: 57790

Food for Thought dining arrangements will be discussed in class.

This seminar will discuss the basic concepts related to viruses that are associated with cancer. The various diseases caused by these oncogenic viruses will be discussed along with immune protection and drug treatment. We will discuss many different viruses including Kaposi's sarcoma herpesvirus, Epstein-Barr virus, human papillomavirus, hepatitis B virus, and hepatitis C virus. In addition, we will discuss the issues for prevention of viral infections and cancers with vaccines. **The intended audience would be students who are interested in science and most specifically immune responses to viruses and immune regulation of cancer. A science background is not required but helpful. Students should not be afraid of reading articles discussing or reviewing current science research. Students interested in intellectual discourse are encouraged. This seminar is part of the Food for Thought Seminar Series.**

Professor Beatty is an infectious disease immunologist who has worked on Chlamydia, Epstein-Barr virus, Leishmania, and dengue virus over the last fifteen years. His research has focussed on T cell immunology and cytokine signaling. He teaches immunology classes at Cal in the Department of Molecular and Cell Biology.

Natural Resources 24, Section 1

Global Environment Theme House Freshman Seminar (1 unit, P/NP)

Professors Peter Berck and Matthew Potts

Thursday 5:00-6:00, Foothill 4 - Classroom A (4301 Foothill 4), CCN: 61303

After the formal sessions, the professor and students may continue their discussion informally over dinner in the Dining Commons. Food for Thought dining arrangements and field trip arrangements will be discussed in class.

The goal of this Freshman Seminar is to bring students and faculty together to explore issues such as global environmental change, policy and management of natural resources, sustainable rural and urban environments, and environmental leadership. The seminar will provide students and faculty a forum to exchange ideas, challenge one another's thinking, and share experiences in a small group setting. Students will have the opportunity to do research and teach their peers about regional to global environmental issues in preparation for Theme Program field trips and guest speakers. **Course enrollment is restricted to Global Environmental Theme House participants. Obtain CEC from the instructor. This seminar is part of the Food for Thought Seminar Series.**

Peter Berck is a Professor of Agricultural and Resource Economics and Policy. He was an undergraduate at Cal, received a Ph.D. in Economics from MIT in 1976, and has been teaching at Cal ever since. His research has been on the economics of forestry, fisheries and water, on food security in developing nations, and on the costs of environmental regulation.

Dr. Matthew D. Potts is an Assistant Professor of Forest Ecosystem Management in the Department of Environmental Science, Policy and Management. He has a broad interdisciplinary background with training in mathematics, ecology and economics. In addition, he has extensive international experience conducting field research in tropical rainforests throughout Southeast Asia. Dr. Potts' varied research interests include spatial aspects of resource management and epidemiology as well as how human actions, values, and ethics affect biodiversity conservation.

Natural Resources 24, Section 2

Dean's Night Out - Environmental Issues: Conflicts, Tradeoffs, and Resolutions (1 unit, P/NP)

Professor Stephen Welter

Tuesday 4:30-7:00, 260 Mulford Hall, CCN: 61306

This seminar will meet six dates: September 1, 8, 15, 22, 29 and October 6, 2009.

The series will address a range of environmental topics—e.g. climate change, water use in California, conflicts between local needs and conservation biology, or pesticides use—from multiple perspectives and disciplinary approaches. Guest faculty speakers with a range of expertise will meet with students in an informal setting to provide an overview of the nightly topic, and to generate more broad discussions with the students. Dinner is included. Attendance at all six sessions is mandatory.

Steve Welter is Professor and Division Chair of the Division of Insect Biology in the Department of Environmental Science, Policy and Management. He received his PhD from UC Riverside in Agriculture Entomology/Plant-Insect Interactions. His research focuses on developing environmentally rational pest management programs with strong emphases on the behavioral ecology of moths in pheromone-permeated environments and regulation of herbivores by natural enemies.

Near Eastern Studies 24, Section 1

Exploring Ancient Egypt: Egyptian Archaeology in the Phoebe A. Hearst Museum (I unit, LG)

Professor Carol Redmount

Monday 1:00-2:00, 271 Barrows Hall (first meeting) and Exhibit Gallery in Hearst Museum, CCN: 61442

The first seminar meeting will be in 271 Barrows Hall. Future seminar meeting locations will be announced in the first class.

The Hearst Museum has one of the most important collections of ancient Egyptian artifacts in the United States and the best west of Chicago. Most of the almost 19,000 ancient Egyptian objects in the museum came from excavations undertaken in the early 1900s by George Reisner, with funding provided by Phoebe Apperson Hearst. Only a very tiny fraction of this collection is ever displayed in the museum, due to space constraints. In this seminar, we will examine the background and history of the collection, its housing and treatment in the museum, and various objects from the collection. Students will learn to use various resources of the museum and have the opportunity to work with ancient objects. **First year students with no background in the field are encourage to enroll.**

Carol Redmount is an Associate Professor in the Near Eastern Studies Department. She specializes in the archaeology of Egypt and directs the UC Berkeley excavations at El-Hibeh, a three-thousand-year-old provincial town and cemetery site in Middle Egypt. She began her archaeological fieldwork the summer of her freshman year in college and hasn't stopped excavating since. She has worked in the Middle East for some thirty years and lived for extended periods of time in Egypt, Israel and Jordan. Her archaeological experience also includes fieldwork in Cyprus, Tunisia and the United States.

Near Eastern Studies 24, Section 2

Islam and Imaginative Literature: The Making of a Problematic Relation (I unit, LG)

Professor Muhammad Siddiq

Tuesday 10:00-11:00, 180 Barrows Hall, CCN: 61445

This course explores the status of imaginative literature in Islamic contexts. Beginning with the attitude of the Qur'an towards poetry and poets (which we will compare to the views of Plato and Aristotle on the subject), the course will examine the perimeters of literary expression and the theological constraints placed on it in various phases of Islamic history up to the present. Students are expected to write several short, informal, but analytical essays. In addition, regular attendance and participation in class discussion will figure in determining the overall grade in the course.

Professor Muhammad Siddiq is trained in Comparative Literature with special expertise in Arabic, Hebrew, and English. He is currently working on a project that examines the poetics of Palestine in the works of the major Palestinian poet Mahmoud Darwish.

Nutritional Sciences and Toxicology 24, Section I

The Freshman Experience: A Comparative Study (1 unit, P/NP)

Professor George Chang

Wednesday 11:00-12:00, Unit 2 Towle Residence Hall L3 Seminar Room, CCN: 64596

This is a Food for Thought Seminar. Students are urged to keep the Wednesday 12:00-1:00 p.m. time slot open for seminar lunches. Towle Hall is located in Unit Two at 2650 Haste Avenue between College and Bowditch.

The freshman experience offers problems and challenges to the first-year student. For example: How can I cope with The Roommate from Hell? What about the "freshman fifteen" pounds of weight gain? Why do I have more reading in one week than I had in all of high school? Is Chemistry IA really more frightening than death itself? Why can't my GSI speak Californian English? Are assignments and exams really necessary? Each week a team of students will select a question like these, research it for a week, and then present their findings to the class. A lively discussion will follow, with each student speaking every week. In fall 2008, "The Freshman Experience" will be held in Unit 2 Towle Residence Hall L3 Seminar Room to enhance the living-learning connection in the residence halls. **This seminar is part of the Food for Thought Seminar Series. After seminars, students and faculty can continue their discussions over lunch at the Crossroads Dining Commons.**

Professor Chang received an A.B. in chemistry from Princeton, where he also studied boxing, and a Ph.D. in biochemistry from Cal, where he also studied Tai Chi. He has been a martial arts movie fan for over four decades. In 2005 Professor Chang became the inaugural professor in Cal's new Residential Faculty Program.

Philosophy 24, Section I

The Ethics of Food: Philosophical Perspectives on "The Omnivore's Dilemma" (1 unit, P/NP)

Professor R. Jay Wallace

Wednesday 12:00-1:00, 234 Moses Hall, CCN: 67171

We will discuss "The Omnivore's Dilemma" by Michael Pollan, and also look at some philosophical literature that touches on the issues he raises in the book. Questions to be discussed include our responsibilities as consumers of food, the moral standing of animals, and the relation between individual and collective (political) agency. **This seminar is part of the On the Same Page initiative: <http://onthesamepage.berkeley.edu>.**

Jay Wallace works in moral philosophy. His interests extend to all parts of the subject (including its history), and to such allied areas as political philosophy, philosophy of law, and philosophy of action. His research has focused on responsibility, moral psychology, and the theory of practical reason. Recently he has written on promising, freedom, rational agency, normativity, contractualism, instrumental reason, resentment, and Nietzsche's Genealogy of Morals. He was an undergraduate at Williams College, where he received the B.A. degree in 1979. He did his graduate work at the University of Oxford (B.Phil. 1983) and at Princeton University (Ph.D. 1988). He has taught at Wesleyan University, the University of Pennsylvania, and the Humboldt-Universität zu Berlin, and has held visiting positions at the Universität Bielefeld, in the Research School of Social Sciences at the Australian National University, at the Humboldt-Universität zu Berlin, and at the University of Canterbury in Christchurch (New Zealand). He is currently Chair of the Philosophy Department at Berkeley.

Physics 24, Section 1
Everyday Nukes (1 unit, P/NP)
Professor Bob Jacobsen
Wednesday 11:00-12:00, 397 LeConte Hall, CCN: 69368

Food for Thought dining arrangements will be discussed in class.

Nuclear power, nuclear weapons and even the radioisotopes in a smoke detector are surrounded by a host of technical, political and even psychological issues. In this seminar, we'll work through some of these and try to reach our own conclusions about them. What are the tradeoffs in using nuclear power to reduce climate change? What are the benefits, costs and risks of medical nuclear technology? How are decisions about these things made? We'll pick a few topics and investigate them in depth. **No previous physics required. Seminar will involve some reading and web browsing between classes. This seminar is part of the Food for Thought Seminar Series**

Bob Jacobsen is an experimental high-energy physicist and ex-computer engineer. His previous project involved hundreds of physicists and thousands of Linux computers at sites around the world; his next one definitely won't.

Physics 24, Section 2
The Big Bang (1 unit, P/NP)
Professor Bernard Sadoulet
Wednesday 1:00-2:00, 179 Stanley Hall, CCN: 70167

Food for Thought dining arrangements will be discussed in class.

The following topics will be covered in this seminar: the Big Bang, the synthesis of the elements, the cosmic microwave background radiation, the matter-antimatter asymmetry in the universe, the dark matter puzzle, gravitational collapse and the formation of large-scale structure, the birth and death of stars, planetary systems, the emergence of life, and searching for extraterrestrial intelligence. We will use as our text Stephen Hawking and Leonard Mlodinow's "A Briefer History of Time" (Random House 2005). **Prerequisite: first, a curious mind! In addition, an advanced placement course in physics in high school, or an introductory physics course (7A or 8A, which can be taken concurrently with this course). This seminar is part of the Food for Thought Seminar Series.**

Bernard Sadoulet is a Professor of Physics and was appointed in the Physics Department at Berkeley in 1985. He was a particle physicist at LBNL and at CERN who had the chance of being involved in the discovery of the J/Psi and the W and Z vector bosons (which led to two Nobel Prizes). Professor Sadoulet was the Director of the Center for Particle Astrophysics from 1989 to 2001 and is now Director of the UC Institute of Particle Physics and Cosmology. He is a member of the UC Berkeley Divisional Council of the Academic Senate. His research speciality is Experimental Particle Cosmology, in particular the problem of Dark Matter. His interests include science policy, education, and university involvement at the service of the community. For more information regarding Professor Sadoulet, please visit his faculty web page at <http://physics.berkeley.edu/research/faculty/Sadoulet.html>.

Plant and Microbial Biology 24, Section 1
Viruses, Health, and Society (1 unit, P/NP)
Professor Andrew O. Jackson
Thursday 4:00-5:00, 104 Genetics and Plant Biology Building (GPB), CCN: 70306

This seminar will meet thirteen weeks, beginning September 3, 2009 and ending December 3, 2009. Food for Thought dining arrangements will be discussed in class.

Viruses infect all forms of life and they have been found wherever scientists have looked for them. Anyone who has had the flu knows that viruses have the potential to disrupt the healthy body in just a short period of time, but most people do not have an appreciation of the enormous impacts of viruses on our public health, agriculture, wildlife and ecology. This seminar will focus on how viruses affect our health, agriculture and society. During the course, you will have the opportunity to learn about a number of topics that may be of interest to those enrolled, including how viruses caused the first stock market crash, eradication of small pox and ongoing efforts to eliminate polio, measles and mumps, how viruses evolve and spread, viruses causing cancer, the flu epidemic that everyone forgot, how viruses may be used to control insects and AIDS, and a host of other topics. Students will present two short seminars about the impacts of specific viruses and their roles in issues of contemporary and historical importance. In preparation for each seminar, Professor Jackson will assist each student in preparation of Powerpoint slides (or Chalkboard if you wish), to assist their seminar, provide advice on how to access illustrative materials from the internet and books and how to obtain scientific information from the library and the internet. After each seminar we will discuss the topic in class and Professor Jackson will provide advice to each student on how to improve his or her presentation. **I would like to attract students who are interested in biology and who would like to learn how to present topics to small audiences. High school biology would be preferable but there are no prerequisites for enrolling in the course. I just would like curious minds and a willingness to work and participate in the discussions. This seminar is part of the Food for Thought Seminar series.**

Andy Jackson is a Professor in the Department of Plant and Microbial Biology and has been at UC Berkeley since 1985. He has taught Comparative Virology, an upper-division course, since 1991. This course provides an overview of viruses that infect bacteria, archaea, plants and animals, and helps prepare students for careers in biology, medicine and biotechnology. His research addresses plant viruses and the mechanisms used for their replication and pathogenesis. For more information about Professor Jackson's research, please visit his faculty website at <http://epmb.berkeley.edu/facPage/disFP.php?l=15>.

**Portuguese 24, Section I
Endangered Cultures and Languages (1 unit, P/NP)
Professor Ana Maria Martinho
Tuesday 3:00-4:00, 186 Barrows Hall, CCN: 86606**

In today's world a growing number of cultures are close to extinction or under different sorts of pressure. It is believed that approximately every two weeks a culture disappears with all its knowledge, traditional archives and language. Such loss is in many ways irrecoverable, but there are some groups that are struggling to keep their heritage alive and even to voice it at a global scale. Our course will focus on such positive approaches to this reality. We will start by drawing a general picture of the situation at a world scale and will then evolve to a focused discussion of some success stories. Many institutions are working on supporting a sustainable development of indigenous cultures and of minorities namely through local filmmaking and indigenous storytelling. We will therefore take a close look at their work and discuss it in class. The students are asked to actively engage in class discussions and to put forward their own experiences, research and knowledge on this subject, through oral or written testimonies, videos and pictures. A reader with texts and the plan for the course will be provided. Other documents and information will be available online.

Ana Maria Martinho was born in Portugal and has also lived in the US before 2006 and in Africa for short-term stays. She is since July 2006 an Assistant Professor in the Department of Spanish and Portuguese where she teaches at undergraduate and graduate levels. She offers courses like "Ethnography and Literature," "Nation and Gender in Africa and Brazil," "Colonial History," and "Culture Media and Politics in Lusophone Countries." Her main interests are Portuguese and Luso-African Cultures and Literatures; Education and Development in Africa; Atlantic Cultures; African Diaspora and Emigration. She

travels frequently to Africa and has worked with universities across the world, from Mozambique to South Africa, Thailand, Australia, Venezuela and Brazil. Currently she has projects in Guiné-Bissau and Angola in the fields of Education & Development and Higher Education. She has also an extensive cooperation record of working with non-profit organizations and governmental offices (EU - Belgium; Foreign Affairs Ministry-Portugal) as a consultant, evaluator or collaborator in training and project planning. She has published extensively and is currently preparing the publication of a book on Luso-African cultures and literatures. She plans to do fieldwork in Angola, Cabo Verde and Guiné-Bissau in 2009.

Psychology 24, Section I
Psychology of Cross-cultural Communication (1 unit, P/NP)
Professor Kaiping Peng
Wednesday 11:00-12:00, 2305 Tolman Hall, CCN: 74075

The purpose of this seminar is to help you gain a better appreciation of the importance of cross-cultural communication, and to enhance your ability to deal with and understand how communication processes vary across cultures. In order to achieve these goals, we will review key concepts in cross-cultural communication, discuss some common problems in cross-cultural communication, and learn some strategies and skills that are necessary to deal with it. The goal is to help you to become effective communicators in an increasing globalized world. There is no exam for this course. However, you will be responsible for leading the discussion and writing an essay on the topic for which you are responsible. This essay could be either your summary of the classroom discussion for that week or your own review of the literature on the topic. Please take a look at the approximate schedule and topics to decide which topic you want to lead the discussion and write about. We need to have at least one student volunteer for each week. Grades will be based on the following: good attendance, overall interest and engagement in the class, and the essay.

Professor Kaiping Peng is a tenured faculty member in the Department of Psychology at the University of California, Berkeley. He received his Ph.D. in Social Psychology from the University of Michigan in Ann Arbor in 1997. Before coming to the US in 1989, he was a faculty member in the Psychology Department of the Peking University of China for five years. He has served as the assistant chair of the psychology department of Beijing University, head of the social/personality psychology area in Berkeley, a member of the APA leadership council and the co-president of the Fifth International Congress of Chinese Psychologists Worldwide. He was the founding chair of the Department of Psychology at Tsinghua University. He currently directs the Culture and Cognition Lab and the Berkeley Program of Psychological Studies in China at UC Berkeley. He has published eight books and ninety some articles on cultural and social psychology, as well as methodological issues of psychology. According to a recent study by Nia Phillipas of the University of Kansas, he was the world's most cited social psychologist at the associate professor level up until 2007.

Rhetoric 24, Section I
Seeking Justice and Accountability in Cambodia (1 unit, LG)
Professor David Cohen
Wednesday 10:00-12:00, 7415 Dwinelle Hall, CCN: 77856

This seminar will meet the whole semester but have various weeks off to prepare for longer assignments.

Our seminar will examine the development of the new war crimes tribunal established by the UN and the Cambodian government to provide justice for victims of the Khmer Rouge Genocide (1975-79). We will examine the genocide itself, the years of negotiation that led to the creation of the court, and the challenges facing this "hybrid" national/international institution as it prepares for its first trial, which is scheduled to begin in March 2009. We will also read materials about other international tribunals for comparative analysis.

David Cohen is the Director of the Berkeley War Crimes Studies Center. The Center does research on and supports the work of war crimes tribunals, human rights courts, and truth commissions in Cambodia, East Timor, Indonesia, Sierra Leone, and Rwanda. Every year Berkeley undergraduates participate in these projects through the Undergraduate Research Apprentice Program (URAP).

Rhetoric 24, Section 2

Arguing with Judge Judy: Popular "Logic" on TV Judge Shows (1 unit, LG)

Professor Daniel F. Melia

Tuesday 10:00-11:00, 104 Dwinelle Hall, CCN: 78283

Food for Thought dining arrangements will be discussed in class.

TV "Judge" shows have become extremely popular in the last 3-5 years. A fascinating aspect of these shows from a rhetorical point of view is the number of arguments made by the litigants that are utterly illogical, or perversions of standard logic, and yet are used over and over again. For example, when asked "Did you hit the plaintiff?" respondents often say, "If I woulda hit him, he'd be dead!" This reply avoids answering "yes" or "no" by presenting a perverted form of the logical strategy called "a fortiori" argument ["from the stronger"] in Latin. The seminar will be concerned with identifying such apparently popular logical fallacies on "Judge Judy" and "The People's Court" and discussing why such strategies are so widespread. It is NOT a course about law or "legal reasoning." **Students who are interested in logic, public disputation, argumentation, and popular notions of fairness will probably be interested in this course. This is NOT a law course or even a pre-law course. This seminar is part of the Food for Thought Seminar Series.**

Professor Melia belongs to the Rhetoric department and the Program in Celtic Studies. His scholarly interests include Classical rhetorical theory, oral discourse, and medieval Celtic literature and languages. His recent publications concern Aristotle and orality and the forms of early Irish poetry. He is a former Jeopardy! champion.

Slavic Languages and Literatures 24, Section 1

War and Peace: Let's Read It Together (1 unit, P/NP)

Professor Hugh McLean

Friday 9:00-11:00, 6115 Dwinelle Hall, CCN: 79742

This seminar is a collective exploration of this great novel, seen both as a work of literary art and as a response to philosophical issues of its time. **Enrollment is limited to twelve students. No knowledge of Russian is required, nor are there any special qualifications. No term paper. Grade will be based on class attendance and participation.**

Hugh McLean is a Professor Emeritus of Slavic Languages and Literatures at UC Berkeley. He has taught a wide range of courses on Russian literature and was an active member of the faculty from 1967 to 1994. Since then he has been recalled to teach regular courses and more recently has taught Freshman-Sophomore and Freshman seminars. Professor McLean is the author of *In Quest of Tolstoy* (Boston, 2008).

Spanish 24, Section 1

Talking Funny: Language Variation in Spanish and English Literary Texts (1 unit, LG)

Professor Milton Azevedo

Thursday 11:00-12:00, 210 Dwinelle Hall, CCN: 86172

This seminar analyzes language through the literary representation of regional and social varieties of Spanish and English (as in Mark Twain's *Adventures of Huckleberry Finn* or Guillermo Cabrera Infante's *Tres Tristes Tigres*) and discusses social and cultural implications of language variation. It is taught in English with readings in both English and Spanish. Regular class attendance is a strict requirement, and grades will be based on required participation in class discussions and a final oral presentation on an individual project. The reader will be available at the Copy Central on 2560 Bancroft Avenue. **The ability to read and understand spoken Spanish is essential to follow this course successfully. PLEASE NOTE: THIS IS NOT A CONVERSATION COURSE. Students interested in taking a course focusing on conversation or otherwise improving their ability to speak Spanish should see the Undergraduate Assistant in the Department of Spanish and Portuguese.**

Professor Milton Azevedo specializes in Hispanic Linguistics and his research focuses on applications of linguistics to literature. He has taught Freshman Seminars since spring 1999.

**Theater, Dance, and Performance Studies 24, Section I
Documentary Playmaking: School Integration, Little Rock, 1957-58 (1 unit, P/NP)
Professor Dunbar Ogden
Monday 2:00-4:00, 8 Zellerbach Hall, CCN: 88048**

This seminar will meet for eight weeks, beginning September 14, 2009 and ending November 2, 2009.

On the fateful morning of September 4, 1957, a small group of African-American students walked up to the doors of Central High, Little Rock, to enroll in school—and were turned away by the armed National Guard. Arkansas State Governor Faubus had called out the Guard to surround the building. "Blood will run in the streets," said Faubus, "if Negro pupils should attempt to enter Central High School." A racist mob seethed out front. Eventually the courageous group of children did enter. The first of them graduated in the spring of 1958. They came to be known as the Little Rock Nine; Central High as the first major integrated public high school in the South. Nowadays many people regard their mentor, Daisy Bates, on a level with Martin Luther King, Jr. Each student in our Freshman Seminar will select a person who participated in the integration of Central High, study historical documents linked with that individual, and develop a monologue in the role of the person, perhaps as one of the Little Rock Nine or as the Governor or as the principal of Central High. We will encourage each student to experiment with a role different from his or her own gender and cultural background.

Professor Dunbar H. Ogden has just published a book, entitled *My Father Said Yes*, about the integration crisis at Central High School, Little Rock. He has developed this civil rights book in conjunction with students in his Freshman Seminars since 2000. Professor Ogden is the author of books on actors, set design, and theatrical space.

**Vision Science 24, Section I
The Human Eye (1 unit, P/NP)
Professor Richard C. Van Sluyters
Friday 2:00-4:00, 394 Minor Hall, CCN: 66403**

This seminar will meet approximately every other week throughout the semester, beginning the first week of the semester.

This seminar will include a series of instructor-led discussions on the structure and function of the human eye and its appendages. The use of standard clinical instruments to view the exterior and interior of the eye will be demonstrated. Students will then employ these instruments to observe one another's eyes. Digital images of the iris will be captured and provided to each student. Examples of the topics to be discussed include the following: Why is the cornea so clear and the sclera so white? Why is the iris so

beautifully colored? What is the fluid in the eye, where does it come from, and where does it go? How do the skull and bony orbit protect the eye without hindering its performance? How do the appendages of the eye—the eyelids and eyebrows—work, and what are their functions? How does the eye adjust its focus from far to near, and why do we lose this ability with age? How do contact lenses work, and what happens to the cornea when laser refractive surgery is performed?

Professor Richard C. Van Sluyters joined the faculty of the School of Optometry in 1975, and currently serves as the School's Associate Dean for Student Affairs. He received his undergraduate training at Michigan State University, studied optometry at the Illinois College of Optometry and was a graduate student at Indiana University. He holds doctorates in optometry and vision science and was a postdoctoral fellow at Cambridge University in England. He teaches courses on the anatomy and physiology of the eye and visual system.

FRESHMAN AND SOPHOMORE SEMINARS

Most of the following courses are limited to 20-25 students. First- and second-year students are given priority for enrollment. Most of these courses fulfill Letters and Science breadth requirements; consult *A Guide for Students in the College of Letters and Science: Earning Your Degree*. If a course is designated as requiring the consent of the instructor, or if you would like additional information, please contact the undergraduate assistant in the department offering the seminars.

Anthropology 39B, Section I

Serious Games for Archaeology and Imagining the Past (2 units, LG)

Professor Ruth Tringham

Tuesday 2:00-4:00, 2224 Piedmont, Room 12, CCN: 02470

Computer games and virtual worlds are now significant arenas for communication. Many of you have entered these worlds and played with each other as “entertainment”--to escape from study and the conventions of the real world. Some of us, however, are thinking that these contexts offer unique features for stretching the mind and communicative skills in ways that are both instructive and creative. The Serious Games initiative and the New Media Consortium are both groups that are taking steps to harness this potential. This course is also part of that effort to use a gaming arena to take critical thinking and learning “outside the box.” Students will share their experience, knowledge and skills about gaming. We will explore and learn to critically analyze existing games that deal with archaeology, history, and the past. How, for example, does the game “Colonial Williamsburg” that MIT is developing differ from more popular games such as “Civilization”? We’ll discuss why it is that the commercial game producers are not interested in the educational value and content of their games. One of the virtual worlds that we will focus on in the class is Second Life (an online role-playing game; see <http://blip.tv/file/262909> ; <http://secondlife.com/whatis/>). Alongside demonstrations and discussions, students will have the opportunity to populate, role-play, build (either as newbies or as skilled SL-ers) on Okapi Island, funded by UC Berkeley and managed by the OKAPI (Open Knowledge and the Public Interest) initiative (<http://okapi.wordpress.com/projects/okapi-island-in-second-life/>). The island is a mirror of the real-world 9000-year old mound village of Çatalhöyük in Turkey, an archaeological site currently being excavated. We will also be developing a new SL project mirroring the San Francisco Presidio. The course will provide a basic primer into the virtual world of Second Life, where you will learn how to interact with real people in a virtual environment, while learning (without being aware of it) about the past and archaeology. Student input into the design, if not the execution, of these virtual worlds, is an essential part of the course. The course also acts as an entry into further work with us on these projects as undergraduate research apprentices. **This course is designed for any student who likes role-playing games, who may or may not be adept or familiar with computer games. The emphasis of the course is not on technological skills, but the ability to use your imagination. We want you to feel free to share your ideas in a communal brainstorming atmosphere. You need to be interested (hopefully you all are...) in the past and how it articulates with the present and the future. If you have played computer games, or participated in virtual worlds such as Second Life, so much the better, but only if you are willing to share your skills with others less experienced.**

Professor Ruth Tringham is an archaeologist by training, specializing in the prehistory of Eastern Europe and, more recently, Turkey. Her practice of archaeology incorporates the innovative utilization of digital, especially multimedia, technology in the presentation of the process of archaeological research to the public. She regularly teaches courses about archaeology and the media, media literacy, and multimedia authoring in archaeology. This interest in multimedia grows out of a lifelong passion for music and puppets.

Classics 39I, Section I

The Origins of Rome (4 units, LG)

Professor J. Theodore Peña
TTh 11:00-12:30, 103 Wheeler, CCN: 14946

This seminar examines the origins of Rome, the quintessential city in the western experience. It considers both the literary and archaeological evidence for the earliest periods of the city's occupation, the challenges involved in using and combining these two quite different types of evidence, and the ways in which ideology has influenced what people have believed about the early history of the city in both ancient and modern times. Particular attention will be given to recent archaeological discoveries and the ways in which these are transforming our understanding of early Rome.

J. Theodore Peña is a Professor in the Department of Classics. He is specialized in the archaeology of Roman and pre-Roman Italy, the ancient economy, and material culture studies.

Comparative Literature 41D, Section I
Theatres of Cruelty (4 units, LG)
Lecturer Andrea Gadberry
TTh 9:30-10:00, 20 Wheeler Hall, CCN: 17296

In this course, we will consider the importance of cruelty to theatre and the various ways in which theatre portrays and defines it. We will look at plays that have particularly savage acts at their center (or just offstage . . .), and we will ask ourselves how and why these plays cast cruelty, its victims, and its agents as they do. In doing so, we'll consider what it might mean to use this medium in particular to represent cruelty, what the stakes are of allowing the cruel to gaze back into its viewers. We'll ask ourselves what the theatre of cruelty can do and how it might (and might not) continue its work into the theatre of the world. How does theatre modulate, exaggerate, or banalize the cruelty of its protagonists? How does it handle the victim, the bystander, the "collateral damage"? What's left after the cruel performance; what catharsis from cruelty is available (or not)? What relationships do these plays forge between the cruelties they portray and the viewer who beholds them?

We will read plays across cultures and time periods, and we will examine other primary and secondary texts that concern themselves with both cruelty and theatre—in particular those that worry about real cruelties in the real world—as well as spectacles of punishment and power as we consider the dimensions political, social, and aesthetic of cruelty on stage.

Please note: There will be required screenings of film adaptations of some of the plays we discuss in class, and there likely will be an excursion to a local theatrical performance.

Andrea Gadberry is a graduate student in the Department of Comparative Literature. She works on English and French literatures and is currently beginning a dissertation project about unraveling analogy and authority in the early modern period.

Computer Science 39J, Section I
The Art and Science of Photography: Drawing with Light (2 units, P/NP)
Professor Brian Barsky
Friday 12:00-2:00, 405 Soda Hall, CCN: 26254

On the first day of instruction, please meet Professor Barsky at 12:10 at the door outside the Oak Room at the Foothill Dining Commons. At 1:10 pm, class will meet in 405 Soda Hall. Additional Food for Thought dining arrangements will be discussed in class.

This seminar explores the art and science of photography. Photographs are created by the control and manipulation of light. We will discuss quality of light for the rendering of tone, texture, shade, shadow, and reflection. The seminar examines the photographic process from light entering the lens through the creation and manipulation of the final image. Some typical topics are composition and patterns, mathematics of perspective projection, refraction, blur, optics of lenses, exposure control, color science, film structure and response, resolution, digital image processing, the human visual system, spatial and color perception, and chemical versus electronic processing. **The seminar is open to freshmen only. Although this seminar is offered through the Computer Science Division, the focus of this seminar is not computer science. The focus of this seminar is photography, and it is not limited to digital photography but embraces also film photography. Students should have experience using a camera with manual control of exposure and focus and that either has interchangeable lenses of different focal lengths or has a zoom lens. Students must have such a camera to complete the course assignments. Ideally, students should have access to both a film camera and a digital camera. It is helpful, but not essential, for students to have an interest in science (at least chemistry and physics). Class assignments will be based on color slides, prints, and digital images. Although print film assignments are welcome, the darkroom facilities are outside the control of the class. Student work will be critiqued in class. Participation and attendance at all classes and other course-related activities is required to receive a "pass" grade, except for prior arrangement with the instructor or documented emergencies. "Guidelines Concerning Scheduling Conflicts with Academic Requirements" by the Committee on Educational Policy state: "If unforeseen conflicts arise during the course of the semester students must promptly notify the instructor and arrange to discuss the situation as soon as these conflicts (or the possibility of these conflicts) are known" and "faculty may decline to enroll students in a class who cannot be present at all scheduled activities."**

To read an interesting article about this seminar, please see <http://inst.eecs.berkeley.edu/~cs39j/fa06/engnews/http://inst.EECS.Berkeley.EDU/~cs39j/> This seminar is part of the Food for Thought Seminar Series.

Brian Barsky received his Ph.D. from the University of Utah in Computer Science and joined the UC Berkeley faculty in 1981. His research interests are CAD/CAM, computer-aided geometric design and modeling, computer graphics, geometric modeling, visualization in scientific computing, and computer-aided cornea modeling and visualization.

**Computer Science 39N, Section I
The Beauty and Joy of Computing (2 units, LG)
Lecturer SOE Dan Garcia and Lecturer SOE Brian Harvey
MW 3:00-5:00, 200 Saturdja-Dai Hall, CCN: 26256**

Computing has changed the world in profound ways. It has opened up wonderful new ways for people to connect, design, research, play, create, and express themselves. However, just *using* a computer is only a small part of the picture. The real transformative and empowering experience comes when one learns how to *program* the computer, to translate ideas into code. This course will teach students how to do exactly that, using Scratch, one of the friendliest programming languages ever invented. It's purely graphical, which means programming involves simply dragging blocks around, and building bigger blocks out of smaller blocks. But this course is far more than just learning to program. We'll focus on some of the "Big Ideas" of computing, such as abstraction, design, recursion, concurrency, simulations, and the limits of computation. We'll show some beautiful applications of computing that have changed the world, talk about the history of computing, and where it will go in the future. Throughout the course, relevance will be emphasized—relevance to the student and to society. As an example, the final project will be completely of the students' choosing, on a topic most relevant to them. The overarching theme is to expose students to the beauty and joy of computing. **This course is designed for computing non-majors. We are especially excited about bringing computing (through this course) to traditionally under-represented groups, i.e., women and ethnic**

minorities. This course is serving as a test-the-waters pilot for a full, 4-unit course we hope to offer in the spring.

Dr. Garcia received dual B.S. degrees in Computer Science and Electrical Engineering from MIT, 1990, and a M.S. and Ph.D. in Computer Science from UC Berkeley, 1995 and 2000 respectively. He joined the faculty in the Fall of 2000, won the departmental Diane S. McEntyre Award for Excellence in Teaching in 2002, and the departmental Information Technology Faculty Award for Excellence in Undergraduate Teaching in 2004, and was chosen as a UC Berkeley "Unsung Hero" in 2005. He has taught (or co-taught as a GSI, where he won both departmental and campus outstanding GSI awards) courses in teaching techniques, computer graphics, virtual reality, computer animation, self-paced programming as well as the lower-division introductory curriculum. He is active in SIGCSE and is a member of the ACM Education Board.

He is currently mentoring over seventy undergraduates spread across four groups he founded in 2001 centered around his research and development interests in computer graphics, Macintosh OS X programming, combinatorial game theory and computer science education.

Brian Harvey is interested in the use of computers in K-12 education. He and his students developed Berkeley Logo, a free implementation of the Logo programming language for learners.

He received his B.S. in Mathematics at MIT, 1969, a M.S. in Computer Science, Stanford, 1975, and a Ph.D. in Science and Mathematics Education, UC Berkeley, 1985. He also received a M.A. in Clinical Psychology, New College of California, 1990.

**Earth and Planetary Science 39A, Section I
Geological Influences in California Society Today (2 units, LG)
Professor Donald J. Depaolo
MW 4:00-5:00, 265 McCone Hall, CCN: 19009**

Field trip dates TBA. For additional field trip and meeting schedule details and updates, visit the seminar's website at <http://eps.berkeley.edu/courses/eps39/>.

The theme of this course is the influence of geology in California society. As a freshman seminar, the class involves close personal interaction between students and senior faculty. For the interaction to work, it is essential that all enrolled students be prepared for the learning experience and to become engaged as active participants. Toward this end, the field trips are preceded by two or three one-hour lectures and two or three video presentations. Students are expected to attend one logistical meeting for the section of the field trip they are attending. Each student goes on only one field trip: Group 1 or 2. Each group will take one continuous four-day trip to visit geological and historical localities in various parts of California. Topics emphasized on the trips vary: societal impacts of dams, the Gold Rush, resource conservation, the geology of Yosemite as a national park, water resource issues, volcanic and seismic hazards, and glacial geology. Three nights will be spent camping out. Accordingly, each student will need to bring appropriate gear including a sleeping bag and a tent or make arrangements to share space in a tent. More details on equipment to bring and preparations to make will be supplied at the logistical meetings. **Enrollment is limited to ~30 freshman students. The class will be split into two field-trip groups of a size small enough to ensure an interactive seminar experience. This course is restricted to freshmen only. If you have any questions regarding this seminar, please contact Catherine Pauling at 642-4068 or cpauling@berkeley.edu.**

Donald DePaolo is a Professor of Geochemistry with the Department of Earth and Planetary Science. He is the Director of the Center for Isotope Geochemistry at UC Berkeley and the Lawrence Berkeley National Laboratory, and is the Director of the Earth Sciences Division at the Lawrence Berkeley National Laboratory.

Education 39D, Section I
Educating Identity: Becoming Jewish in Israel and America (3 units, LG)
Professor Hanan Alexander
TTh 10:00-11:30, 5634 Tolman Hall, CCN: 23526

This undergraduate seminar will examine what it could possibly mean to be initiated into a spiritual, religious, political or ethical identity through the prism of Jewish education in Israel and the United States. Drawing on influential themes in liberal, communitarian, feminist, and critical moral and political theory and religious thought, it will explore recent developments in Israeli philosophy of education and American Jewish theology that are relevant to the dynamics of identity education. **This course should be attractive to students interested in moral and political philosophy, religious thought, spirituality, Jewish studies and Israel studies.**

Hanan A. Alexander is Richard and Rhoda Goldman Visiting Professor of Education and Israel Studies at UC Berkeley and Professor of Philosophy of Education at the University of Haifa where he heads the Center for Jewish Education. Formerly Academic Vice President of the American Jewish University in LA and Chair of the Department of Education at the University of Haifa, he is also a Senior Research Fellow at the Van Leer Jerusalem Institute and a Visiting Fellow of St. Edmund's College, Cambridge University. He has published widely on philosophy of education and Jewish thought. His book *Reclaiming Goodness: Education and the Spiritual Quest* is winner of a National Jewish Book Award. He is currently editing *Citizenship and Social Conflict* for Routledge Press and working on a new book entitled *Democracy and Distinctiveness: Liberal Education without Neutrality*.

Environmental Economics and Policy 39D, Section I
Great New Books and Hot Topics (2 units, P/NP)
Professor Larry Karp
Wednesday 2:00 - 4:00, 332 Giannini, CCN: 01218

The goal of the seminar is to assist students in increasing their knowledge of environmental issues, and their understanding of how economics helps in analyzing those issues. The seminar will proceed along two tracks. One track will involve the reading and discussion of several "great new books," chosen by the instructor, dealing with current environmental and economic issues. The other track will consist of current environmental and economic topics selected in consultation with students. These topics will likely include issues related to climate change and international trade. The upcoming climate change negotiations at Copenhagen will serve as a context for the discussion of these topics. Students will be (largely) responsible for finding the readings and organizing the discussion. Students, forming small groups, will prepare "policy briefs" and lead discussions for individual topics.

Larry Karp received his Journeyman's card in roofing in 1977 and his B.A. in Economics in 1978, after spending several years traveling in Latin America, not succeeding in writing a novel. He completed his PhD in 1982. In 1984 he joined the Berkeley faculty, where he is currently chair of the Department of Agricultural and Resource Economics. His research interests include environmental economics, international trade, and game theory.

History 39F, Section I
How Wars Begin: Europe and the World 1789 to 1991 (4 units, LG)
Professor David Wetzel
Thursday 12:00-2:00, 202 Wheeler Hall, CCN: 39254

Six major wars have been fought in Europe since the French Revolution. A seventh was fought all over the world though Europe contributed to its outbreak and provided one of the fields of combat. Many of these wars had long backgrounds or, as one historian has written, "profound causes"—conflicting creeds, public opinion, nationalism, militarism, mass psychology preaching the glories of war, historians themselves, to name but a few. But there is also a more staid version of the origin of war: the precise moment when

government officials set their names to the declaration of it. Sometimes the actual signing has little to do with the profound causes. This course will examine the immediate origins of the following wars: Wars of the French Revolution and Napoleonic Empire (1789-1815); Crimea and Italy (1853-56, 1859); Bismarck's Wars (1863-64, 1866, 1870-71); The First World War (1914-18); The Second World War (1939-45); The Cold War (1946-1991). Students will analyze writings by historians with conflicting interpretations of all of these wars and be asked to evaluate the merits of each. Vigorous participation in class discussion is a must.

David Wetzel is Visiting Lecturer in History, Fall 2009. He specializes in international history of Europe in the nineteenth and twentieth centuries. His books include *The Crimean War: A Diplomatic History*; *A Duel of Giants: Bismarck, Napoleon III, and the Origins of the Franco-Prussian War*; and *Systems, Statecraft, and Stability: Essays on the International History of Modern Europe* (co. ed).

History of Art 39A, Section I
Photography as a Fine Art (with darkroom work) (4 units, LG)
Professor David H. Wright
Friday 1:30-4:30, 308B Doe Library, CCN: 0545 I

This seminar combines taking photographs with studying the work of the great masters. It is based on a critical study and discussion of the work of selected photographers from about 1860 to 1940, from Carleton Watkins to Walker Evans, with nine assignments to try making photographs in their styles. The course is designed for students experienced in practical photography, including darkroom work in black and white. After those assignments there will be a term paper on a topic developed by each student individually, with the instructor's help. No examination. **Registration for this course is by instructor approval only. Enrollment is limited to eight students. An interview is required between Friday, 22 August, and Wednesday, 27 August. Further information and an interview sign-up sheet will be posted at that time by the instructor's office, 423 Doe Library. To qualify, students must have darkroom experience and bring samples of their black-and-white photography to the interview.** This seminar may be used to satisfy the Arts and Literature breadth requirement in Letters and Science.

Professor David H. Wright invented this course some twenty years ago when he realized what he would have liked to take when he was a freshman just after the war; he continues to delight in offering it. Although he completed the requirements in Physics before switching to History of Art, he feels his real college education came as a photographer for the Harvard Crimson.

Jewish Studies 39A, Section I
Jewish American Literature (2 units, P/NP)
Ms. Celine Piser
Wednesday 4:00-6:00, 180 Barrows, CCN: 47802

The course will explore Jewish American literature, from early nineteenth-century drama to contemporary fiction. Utilizing selections from the Norton Anthology of Jewish American Literature, students will travel weekly through the Jewish American experience as evidenced by poetry, prose, and humor. Focus will be on close reading and in-class discussion. Grading will be based on participation in discussions and short written responses to queries based in the text. No prior knowledge of Judaism or Jewish literature is required.

Celine Piser is a graduate student in the Comparative Literature Department working in French, English, Hebrew, and Ladino literatures. A Berkeley native and UC Berkeley Grad, Celine is especially interested in introducing new students to Jewish literature and to the Berkeley experience.

Music 39M, Section I
Classical Vocal Works of African-American Composers (3 units, LG)
Lecturer Candace Johnson
TTH 11:00-12:30, 117 Morrison, CCN: 60994

This seminar offers a general survey of vocal literature written by Black composers of classical music, with primary emphasis on the art song tradition. Students will gain an understanding of the unique musical, sociological, and literary contexts that led to the development of this hybrid body of music. Works will be considered in the broader context of American classical vocal literature. Class lectures will be supplemented with recordings, demonstrations, and discussion. Reading and listening assignments will be given regularly, with short papers and class presentations assigned periodically. There are no pre-requisites, and no prior music experience is required.

Soprano Candace Johnson received her Doctorate of Musical Arts in voice performance from the University of Michigan, where she studied with renowned Shirley Verrett. She recently completed a Chancellor's Postdoctoral fellowship at the University of California, Berkeley in the Department of Music (2005-2008). She continues to focus her research and performance on the analysis and dissemination of classical solo songs by African-American composers.

Candace has played the lead soprano roles of Puccini's Suor Angelica, Menotti's The Medium, and Mozart's Bastien and Bastienne, and the comic role of Cherubino in Mozart's Nozze di Figaro. Candace has concretized in various cities throughout the country. She is known most for her crystalline high notes and her captivating interpretation and stage presence. She is featured on the CD recording of The New Anthology of African-American Art Songs, and she is currently working with producer Walter Hawkins, Jr. to record her debut "gospel-opera" album.

With more than more than 20 years of teaching experience, Candace shares her music as faculty member of U.C. Berkeley's Young Musician's Program, Los Medanos Community College, the Freedom Performing Arts Center, and Revival Center Ministry's Training Institute, where she designed the worship curriculum for vocal and creative arts.

Native American Studies 90, Section I
Myth, Memory, and History: Understanding Native America (4 units, LG)
Visiting Lecturer Diane Pearson
MWF 8:00-9:00, 104 Barrows Hall, CCN: 61121

This course provides an overview of the history of the indigenous peoples of the Western Hemisphere, and proceeds from the premise that knowledge of Native America is essential to the study of the Western Hemisphere. It will survey a number of societies, cultures, lifestyles, and contemporary and historical issues. This seminar may be used to satisfy the Social and Behavioral Sciences or Historical Studies breadth requirement in Letters and Science.

Dr. Pearson holds a Ph.D. in American Indian Studies and specializes in American Indian law and policy, societies and culture, and education.

Nuclear Engineering 39A, Section I
Issues in Nuclear Science and Engineering (2 units, LG)
Instructor TBA
MW 1:00-2:00, 3113 Etcheverry Hall, CCN: 64006

This seminar is an introduction to technical, social, institutional, and ethical issues that arise in the field of nuclear engineering: nuclear reactions and radiation, radiation protection, nuclear energy production and utilization, the nuclear fuel cycle, reactor safety and risk, controlled fusion, nuclear waste, medical and

other applications of radiation, and nuclear nonproliferation and arms control. This seminar may be used to satisfy the Physical Sciences breadth requirement in Letters and Science.

The instructor's bio will be published here when it is available.

Optometry 39B, Section I

The Developing World: Profound Challenges, Needs, and Opportunities—An Example Applied to Eye Care in India (2 units, P/NP)

Professor Jay Enoch

TuTh 2:30-4:00, 394 Minor Hall, CCN: 65503

This seminar will meet the first five weeks of the semester. There are also two late afternoon and evening sessions which will be added towards the end of the period of time in which the class meets.

The developing world and its profound problems will remain with us throughout our lifetime. Continued population growth, rapid aging of these populations and provision of care for the aged; questionable adequacy of harvests, greatly increased health needs (for example, the HIV-AIDS epidemic); often inadequate schooling; the caste system, and religion and the family as foci of society; the roles and needs of men and women; and many other problems all contribute to the complex of issues that need to be faced in these environments. While these problems are enormous, individuals (singly or working together) can make a difference. There are opportunities, and these people are both cooperative and willing to share in their development. One must limit oneself to a defined problem set. In this symposium, we will explore this complex of issues, and the teacher will define those things he was/is able to achieve (and problems and difficulties encountered) in the field of eye and vision care during more than a decade of active participation in India. With India's population passing the one billion mark, the importance of addressing the very great needs of India and other developing countries are emphasized. Individuals will be encouraged to participate actively in discussions, and to examine situations in other countries to better understand both existing problems and opportunities. Students will be asked to prepare oral presentations and written materials on related issues of personal interest. This course is also listed as South and Southeast Asian Studies 39C (CCN: 83112). This seminar may be used to satisfy the International Studies or Social and Behavioral Sciences breadth requirement in Letters and Science. This course is also listed as South and Southeast Asian Studies 39C, Section I (CCN: 83211).

Dean Emeritus and Professor of the Graduate School Jay M. Enoch maintained a research laboratory in Madurai in Tamil Nadu State for many years. In 1985, he helped start a successful college in Madras (Chennai) in Tamil Nadu, and he is currently involved in developing graduate programs at the latter institution to help train additional teachers/researchers, and is participating in the organization of additional new college programs in India.

Plant and Microbial Biology 39D, Section I

Life on Earth (3 units, LG)

Professor Daniel Zilberman

MWF 5:00 - 6:00, 107 GPB, CCN: 70309

All living organisms share a common origin and common challenges that drive their evolution: they must compete to reproduce and to obtain food and other limited resources. In this class we will examine the diverse strategies that plants, animals and fungi have evolved to meet the challenges of life through lecture and discussion. Exams will focus on conceptual understanding. **Knowledge of the biological or physical sciences is neither required nor expected.** This seminar may be used to satisfy the Biological Sciences breadth requirement in Letters and Science.

Daniel Zilberman is an Assistant Professor in the Department of Plant and Microbial Biology and has been at UC Berkeley since 2007. He has taught 'Introduction to the Science of Living Organisms', which

explores the basic concepts of modern biology. His research addresses mechanisms of gene expression and non-genetic inheritance in plants and animals. For more information about Professor Zilberman's research, please visit his website at <http://epmb.berkeley.edu/facPage/dispFP.php?l=1255>.

Political Science 39B, Section I
Problems in East Asian Politics (2 units, P/NP)
Professor Lowell Dittmer
Monday 5:00-7:00, L 20 Unit I Cntrl, CCN: 71489

Food for Thought dining arrangements will be discussed in class.

This seminar is designed to introduce beginning students to some of the leading problems in Asia. We begin with a broad survey that attempts to generalize about some of the basic political and cultural characteristics of this vast and diverse subcontinent. We then attempt to focus on one basic problem and three empirical cases. The basic problem is that of the frustration of national identity despite bitter, long-standing struggle to resolve the issue. The three cases are those of China vis-a-vis Taiwan, North/South Korea, and the Indo-Pakistani standoff over Kashmir. These three situations not only are cases of unresolved national identity crisis but also have become consistent regional sources of tension that threaten to trigger a crisis (perhaps nuclear) involving many other countries, perhaps including our own. As this is a seminar rather than a large lecture class, grades will be based on class discussions of presentations plus several short papers rather than the passive absorption of lectures and regurgitation in exams. Course meetings will be chronologically divided into segments to discuss each of a series of issue areas. Students will sort themselves into teams to organize presentations on each issue area, each student being expected to participate in at least one of these teams. The team will assign (by e-mail) specific readings to the rest of the class for each week's discussion. Aside from participation in these team presentations, each student will be required in the course of the semester to write four brief (three-to-four-page) essays: one on the Korean problem, one on the China-Taiwan problem, one on the Kashmir problem, and finally an essay comparing these three problem cases and their possible solutions. There will also be occasional guest lectures and films illustrating course topics. **This seminar is part of the Food for Thought Seminar Series and open to freshmen only.** This seminar may be used to satisfy the International Studies or Social and Behavioral Sciences breadth requirement in Letters and Science.

Professor Dittmer received his Ph.D. from The University of Chicago in 1971. His scholarly expertise is the study of contemporary China. He teaches courses on contemporary China, Northeast Asia, and the Pacific Rim. His current research interests include a study of the impact of reform on Chinese Communist authority, a survey of patterns of informal politics in East Asia, and a project on the China-Taiwan-US triangle in the context of East Asian regional politics. Professor Dittmer's recently published books and monographs include *Sino-Soviet Normalization and Its International Implications* (University of Washington Press, 1992), *China's Quest for National Identity* (with Samuel Kim, Cornell University Press, 1993), *China Under Modernization* (Westview Press, 1994), and *South Asia's Nuclear Crisis* (M.E. Sharpe, 2005).

Public Health 39H, Section I
Renewal, Reinvention and Innovation: A Campus for the 21st Century (2 units, LG)
Professor Catherine Koshland, Professor Emily Marthinsen and Ms. Sarah Nathe
Monday 11:00 - 1:00, 340 Moffitt, CCN: 76970

UC Berkeley is at the threshold of major physical change. The capital investments required to increase the seismic safety of our buildings, improve sustainability, and develop program space for modern teaching and research present us with a unique opportunity to renew the campus and provide the space and infrastructure needed to maintain the Berkeley standard of excellence. We must ensure each investment represents the optimal use of land and capital, preserves and enhances our wonderful legacy of landscape and architecture, and improves the quality of campus life.

This course will present an overview of campus history and early architectural influences, describe principles of master planning and landscape, detail the challenges of living in earthquake country, and discuss efforts to make everything UCB does more sustainable. Brief presentations on many renovated and new buildings will also involve a number of field trips to observe the structures at issue. Students will be expected to attend each class and prepare a class presentation on one building based on their research and/or interviews with experts.

Catherine Koshland is Wood-Calvert Professor in Engineering, Professor of Environmental Health Sciences, and Professor of Energy and Resources. She is also the Vice-Provost, Academic Planning and Facilities, and in this role has responsibility for the safety and functionality of all the space on the UCB campus.

Emily Marthinsen is Assistant Vice Chancellor for Physical and Environmental Planning at UCB, involved in all changes to the campus buildings and grounds.

Sarah Nathe is the Manager of the Disaster-Resistant University Program at UC Berkeley, involved in various earthquake loss-reduction projects and in business resumption planning.

Slavic Languages and Literatures 39L, Section I
Russian Short Fiction (3 units, LG)
Professor Luba Golburt
MWF 2:00-3:00, 250 Dwinelle Hall, CCN: 79757

When one thinks of Russian prose, the bulky nineteenth- and twentieth-century novels inevitably come to mind, making one's initiation into Russian literature seem arduous, even if ultimately rewarding. Taking a different approach to introducing students to the Russian canon, this course offers a rich sampling of short stories and novellas by more than a dozen famous Russian writers, spanning a century and a half: from the sentimentalist Nikolai Karamzin (1766-1826) through such milestones as Pushkin, Dostoevsky, Tolstoy, Chekhov and Nabokov to the satirist Mikhail Zoschenko (1895-1958). Our discussions will focus on both the internal organization and meaning of individual stories and the historical evolution of Russian prose and its changing political and cultural contexts. This course should be of particular interest to prospective and current majors in Russian and other literatures as well as to students interested in creative writing.

Luba Golburt specializes in eighteenth- and nineteenth-century Russian literature and culture. She is especially interested in genre theory, visual culture, literary polemics, readership and consumer practices.

South and Southeast Asian Studies 39C, Section I
The Developing World: Profound Challenges, Needs, and Opportunities—An
Example Applied to Eye Care in India (2 units, P/NP)
Professor Jay Enoch
TuTh 2:30-4:00, 394 Minor Hall, CCN: 83211

This seminar will meet the first five weeks of the semester. There are also two late afternoon and evening sessions which will be added towards the end of the period of time in which the class meets.

The developing world and its profound problems will remain with us throughout our lifetime. Continued population growth, rapid aging of these populations and provision of care for the aged; questionable adequacy of harvests, greatly increased health needs (for example, the HIV-AIDS epidemic); often

inadequate schooling; the caste system, and religion and the family as foci of society; the roles and needs of men and women; and many other problems all contribute to the complex of issues that need to be faced in these environments. While these problems are enormous, individuals (singly or working together) can make a difference. There are opportunities, and these people are both cooperative and willing to share in their development. One must limit oneself to a defined problem set. In this symposium, we will explore this complex of issues, and the teacher will define those things he was/is able to achieve (and problems and difficulties encountered) in the field of eye and vision care during more than a decade of active participation in India. With India's population passing the one billion mark, the importance of addressing the very great needs of India and other developing countries are emphasized. Individuals will be encouraged to participate actively in discussions, and to examine situations in other countries to better understand both existing problems and opportunities. Students will be asked to prepare oral presentations and written materials on related issues of personal interest. This course is also listed as Optometry 39B (CCN: 65503). This seminar may be used to satisfy the International Studies or Social and Behavioral Sciences breadth requirement in Letters and Science. This course is also listed as Optometry 39B, Section I (CCN: 65503).

Dean Emeritus and Professor of the Graduate School Jay M. Enoch maintained a research laboratory in Madurai in Tamil Nadu State for many years. In 1985, he helped start a successful college in Madras (Chennai) in Tamil Nadu, and he is currently involved in developing graduate programs at the latter institution to help train additional teachers/researchers, and is participating in the organization of additional new college programs in India.

South and Southeast Asian Studies 39G, Section I
“Think Gender” in Indian Short Stories (2 units, LG)
Lecturer Kausalya Hart
Friday 8:00 - 10:00, Unit 3 2400 Durant Ave L 15, CCN: 83212

In this seminar, students will read approximately twenty-five short stories from various languages of India translated into English. The stories will describe the relationships between men and women and how the society looks at the roles of men and women in Indian culture. The students will be expected to read the stories and to discuss and critique them in class. They will also be expected to write a three-page criticism of the stories assigned for each class. **Enrollment is limited to fifteen students.** This seminar may be used to satisfy the Arts and Literature or Social and Behavioral Sciences breadth requirement in Letters and Science.

Kausalya Hart (M.A., Annamalai University, 1962) is the author of Tamil for Beginners, Tamil Madu, and Tamil Tiraipadam (advanced Tamil textbooks). She has prepared numerous Tamil language teaching aids (including a collection of Tamil movie videos), and a dictionary for modern Tamil. Her current research involves the preparation of a dictionary of Tamil inscriptions. Her interests include Tamil literature, grammar, and inscriptions.

SOPHOMORE SEMINARS

The following courses are limited to 15 students. Each is offered for one or two units of credit. Second-year students will be given priority for enrollment. Courses designated P/NP may be taken pass/no pass only; courses designated LG may be taken for a letter grade or on a pass/no pass basis. If a course is designated as requiring the consent of the instructor, or if you would like additional course information, contact the undergraduate assistant in the department offering the seminar.

Anthropology 84, Section 1

Race, Gender, and Social Life in Colonial Honduras: Reading over the Shoulder of People in the Past (1 unit, LG)

Professor Rosemary Joyce

Thursday 11:00-12:00, 225I College, Room 101, CCN: 03365

This seminar introduces students to how we learn about people in the past through the use of archival documents. Working with digital copies of documents from the colonial Spanish archives in Sevilla, Spain, Guatemala, and Comayagua, Honduras, we will "read over the shoulder" of the writers whose words form one of our most immediate links to Spanish colonial Honduran life. Students will learn how to locate archival documents online; how to read colonial handwriting; and how we can begin to understand more about society from even brief documents, like receipts for serving as a courier. Working together, we will discuss several longer documents about the lives of native Americans who were obliged to work for Spanish citizens and petitioned for relief, about free black residents of a military fort, and about illegal trade in sugar, rum, and tobacco. Knowledge of Spanish will allow students to gain the most from this seminar. **Special Notes: This course is ideal for students interested in Latin American history, ethnic studies, or Central America, past and present, as well as those who simply want to learn how researchers use original documents. Because the documents under examination are in Spanish, those with Spanish language skill will be able to do more with the original documents. Non-Spanish reading students will, however, be able to work with English translations that will also be discussed.**

Rosemary Joyce is an anthropological archaeologist whose fieldwork takes place in Honduras, ranging from the earliest villages (ca. 1500 BC) to the colonial period that began 3000 years later. Her current research project explores the archaeology of eighteenth-century Fort Omoa, on the Caribbean coast, where native Americans and people of African descent were engaged in the project of mutual defense of the Honduran colony against pirates and the British.

Anthropology 84, Section 2

The Cave Man Mystique: Debating our Ancestry in Understanding Sex, Violence and Diet (1 unit, P/NP)

Professor Margaret Conkey

Wednesday 9-10, Room 101: 225I College Building, CCN: 03368

In 2009, we are celebrating 200 years since the birth of Charles Darwin, whose work in the mid-nineteenth century has irrevocably changed how we think of ourselves and of the living world. But not everyone agrees as to how we can apply or use Darwinian concepts. One such set of debates surrounds what has been called "pop" Darwinism to interpret and explain aspects of human sexuality, masculinities and femininities, and human violence. As well, there have developed a number of critical studies of how science works. In this seminar we will use the book by Martha McCaughey (2008), *The Caveman Mystique: Pop-Darwinism and the Debates over Sex, Violence and Science* as the basis for discussing the legacies of Darwinian thought, the (feminist) critiques of science, and the uses/abuses of Darwinian ideas in the popular accounts for human sexual behaviors. Additionally, since new students in L&S will be reading Michael Pollan's *The Omnivore's Dilemma*, we will discuss the hunting-gathering way of life, the so-called Paleolithic diet, and how, in general, we draw upon both myths and facts about human prehistory to address food practices as well as sex in today's world. **This course might be of**

interest to students who are interested in how science works; in the relationship between science, archaeology and anthropology with popular culture; in how to think critically about major concepts, such as Darwinian evolution; in what we think we know about human sex, diet, and violence. Those who are considering anthropology or psychology as a major, or science studies, as well as those who would like a broader understanding about core features of human life today might find this of interest.

Professor Meg Conkey is an anthropological archaeologist who studies the lifeways of our prehistoric ancestors from the Ice Age period. She has also been a leading scholar in the field of the archaeology of gender and feminist archaeology. She has taught at Berkeley for more than twenty years, directs a field project in the French Pyrenees, and is the President of the Society for American Archaeology. She has won several teaching awards, and has taught a sophomore seminar on "Has feminism Changed Science?". During the Fall 2009 semester she will also be teaching a regular four-unit undergraduate course (Anthro 123) on "Life in Ice Age Europe through Fiction," which might make a nice companion course to this seminar if you are interested.

**Earth and Planetary Science 84, Section I
Climate Change and Water in California: Past, Present, and Future (2 units, LG)
Professor Lynn Ingram
Thursday 11:00-1:00, 55A McCone Hall, CCN: 19033**

Water is critical for sustaining California's wildlife, natural resources, industries, and its large and growing population. California is the fifth largest economy in the world, with a twenty-eight-billion-dollar-a-year agricultural industry, yet it has an unreliable water source. California's economy was based on climate conditions during the 20th century, but according to studies of past climate change, the past 100 years were relatively wet and benign compared with the past several thousand years. In this seminar, we will examine the long-term history of climate in California, including examples of past megadroughts and catastrophic floods. Most of these past extreme events were of much longer duration and severity than any we've experienced over the past century. What are the implications for water resources and ecosystems in California in a future world of global warming? **The seminar is intended for students interested in exploring multiple lines of evidence for climate change and water availability in California's past (so for students with an interest in geology, geography, or environmental science).** This seminar may be used to satisfy the Physical Sciences breadth requirement in Letters and Science.

B. Lynn Ingram is a Professor in the Departments of Earth and Planetary Science and Geography. Her research is focused on past climate change. She uses environmental-sensitive isotopes in sediment cores from oceans, estuaries, and lakes to unravel changes in past climates and environments, including temperature, salinity, ocean circulation, and coastal upwelling. Her field areas include San Francisco Bay, Santa Barbara Basin, and coral reefs in the Pacific Ocean.

**English 84, Section I
Food and Film (2 units, P/NP)
Professor Julia Bader
Wednesday 6:00-9:00, 300 Wheeler Hall, CCN: 28148**

We will examine the representation of food and meals in the setting and narrative structure of films in contemporary cinema in various genres from comedy to horror, looking at Woody Allen, Bunuel, Ang Lee, Hitchcock and others. Connections to ethnic identity, eroticism, aggression and communal regulation will be explored with a range of critical approaches from close analysis to psychoanalytic and reception studies. **This seminar is part of the On the Same Page initiative:** <http://onthesamepage.berkeley.edu>. This seminar may be used to satisfy the Arts and Literature breadth requirement in Letters and Science.

Professor Julia Bader teaches in the English Department and specializes in the modern period, both British and American, with an emphasis on fiction, film, and feminism.

English 84, Section 2

Contemporary Native American Short Fiction and Poetry (1 unit, P/NP)

Professor Hertha D. Sweet Wong

Tuesday 3:30-5:30, 305 Wheeler, CCN: 28151

Contemporary Native American stories are survival stories, reckonings with the brutal history of colonization and its ongoing consequences: they calculate indigenous positions, settle overdue accounts, note old debts, and demand an accounting. These are the stories, says Joy Harjo, that "keep us from giving up in this land of nightmares, which is also the land of miracles." Focusing on the short fiction of a select number of contemporary Native North American writers from within the U.S., we will examine how these Native writers convey cultural survival in the wake of colonization; struggles for sovereignty; rejuvenations of ceremonial healing; retellings of myth and history; experiments with orality and literacy; articulations of a geocentric epistemology and land-based narrative; and the primacy of storytelling. In addition, we will examine the literary, cultural and regional influences on these writers and place their work in the context of Native American literatures specifically and U.S. literatures and global indigenous literatures, generally.

Hertha D. Sweet Wong is an Associate Professor in the English Department who specializes in American literatures, Native American literatures, autobiography and visual culture. Currently, she is working on a book on visual autobiography.

English 84, Section 3

Socrates as a Cultural Icon (2 units, P/NP)

Professor John Coolidge

Friday 12:00-2:00, 205 Wheeler Hall, CCN: 28153

Socrates has often been compared to Jesus, an enigmatic yet somehow unmistakable figure who left nothing in writing yet decisively influenced the mind of his own and later ages. We will read Aristophanes' comic send-up of Socrates in *Clouds* and the Platonic dialogues purporting to tell the story of Socrates' trial and death (*Euthyphro*, *Apology of Socrates*, *Crito*, and selections from *Phaedo*) attempting to trace the construction of the Socratic icon and assess its relevance to contemporary issues. Weekly meetings are devoted to class discussion of one or another such issue, led by a team of two or more students who are to prepare for it in office-hour consultation with the instructor. The object is to provoke lively debate. The course is intended to appeal especially to students who are desirous of getting in on the intellectual conversation of our time and curious about its cultural antecedents. This seminar may be used to satisfy the Arts and Literature breadth requirement in Letters and Science.

John Coolidge, emeritus professor of English and amateur classicist, has taught courses in the Renaissance and seventeenth century, Milton, Jane Austen, the English Bible as Literature, etc. His publications include articles on Shakespeare, Milton, Marvell, and Fielding, and a book on Puritanism and the Bible.

Film Studies 84, Section 1

From Real to Reel: The History and Development of Documentary Film (2 units, LG)

Mr. Gary Handman

Tuesday 10-12 & Th 10-11, Group Room B in the Media Resources Center located at 150 Moffitt Library, CCN: 31643

This seminar will meet on Tuesdays from 10:00-12:00 to screen films and on Thursdays from 10:00-11:00 for discussion.

This seminar will investigate the modes, styles, and uses of documentary film that have developed over the past 120 years, from the earliest cinematic efforts to record "actuality" to present day deconstructions, appropriations, and parodies of traditional documentary forms and conventions. The focus of the course will largely be on American and European documentary traditions. Through screenings of representative works, and class discussions and online discussions, we will investigate how and why various historical periods have given rise to particular documentary forms and documentary agendas. We will consider the persistence and/or changing nature of documentary film conventions and strategies. The seminar will consider how the "voice" of the filmmaker is represented in his/ her films. We will also explore the various ways in which documentary filmmakers use evidence and argument to tell a story, to persuade or incite audiences, or to put forward a particular view of the world. Throughout the seminar, we will consider a number of significant issues and controversies surrounding the production and consumption of documentary films, including the relationships and differences between fiction and non-fiction film; problems related to claims of representing "truth" and "reality"; the issue of documentary objectivity; the ethics of representing others; and the relationships between filmmaker, film subject, and film audience.

Students willing to view films critically and to actively and creatively engage in discourse about them are encouraged to take this seminar. This seminar does not fulfill the Film Studies documentary requirement. This seminar may be used to satisfy the Arts and Literature breadth requirement in Letters and Science.

Gary P. Handman received his Master of Library and Information Studies in 1976 from the University of California, Berkeley. Since 1984, he has served as Director of the Media Resources Center, Moffitt Library, University of California, Berkeley, one of the largest curated video collections in a US academic library. He has taught courses in media librarianship and film studies, and is a periodic lecturer in Film Studies and Media Studies on the Berkeley campus.

History 84, Section I

Image and Concept: Movies as Historical Documents for an understanding of the era of the "Great Depression in The United States, 1931-1941 (2 units, P/NP)

Professor Samuel Haber

Wednesday 2:00-5:00, 125 Dwinelle, CCN: 39258

This seminar will meet the entire semester. For eight of those weeks we will meet from 2:00-5:00 p.m. to view and discuss eight movies. During the alternate weeks the seminar will meet for approximately an hour and a half to further examine the issues raised by the movies and those presented by the course reader. The movie schedule will be available at the first class meeting.

We will be studying the history of this country over a brief period of one decade. Yet during those years the nation entered into and responded to the deepest economic downturn in our history to that date. That experience transformed our country. It clearly provided precedents that are being called upon today, in our present time of economic difficulties.

Movies provide invaluable evidence of what it was like to be alive in "the era of the Great Depression.". Movies have significant advantages and shortcomings as historical documents. We will examine both. What are the advantages and shortcomings of images and concepts as ways of knowing? Can movies adequately cope with a complex historical event? In what sense can movies tell the truth? In what way do movies help define the values of their audiences and in what way are the movies themselves shaped by existing values of their audiences? These are some of the questions that we will try to answer.

In addition to viewing the movies, each student must purchase and study closely a reader providing information and background for the course. At the end of the semester, each student must submit a ten-page typewritten critical summary paper tying the course together in his/her own way. No additional reading is required for this paper; only additional thinking. This seminar is open to freshmen and sophomores. Enrollment is limited to fifteen students. At the first and second meeting of class, a few students may be admitted, with the permission of the instructor, to replace those enrollees who have decided to go elsewhere.

This class will be open to all Freshmen and Sophomores and the enrollment will more or less be divided equally between them. This seminar may be used to satisfy the Historical Studies or Social and Behavioral Sciences breadth requirement in Letters and Science.

This Samuel Haber is an Emeritus Professor in the History Department who is writing a book on American History during the era 1920-1945.

History 84, Section 2

Paris Across the Ages (1 unit, P/NP)

Professor Tyler Stovall

Wednesday 1:00-2:30, 344 Campbell Hall, CCN: 39260

Seminar will begin August 26, 2009 and end October 28, 2009.

The course will consider the history of Paris from its origins in the ancient world down to the present day. Major themes will include urban growth, architectural change, urban politics, immigration, local life, and global interactions.

Tyler Stovall is a professor of French history and Dean of the Undergraduate Division of the College of Letters and Science. His teaching specialties include modern European history, twentieth-century French and European history, Caribbean history, and histories of the black diaspora. He is the author of two books on Paris, where he once lived as a young man, and he hopes to die there as an old man.

Integrative Biology 84, Section I

What's Love Got to Do with It? A Survey of Animal Mating Systems. (1 unit, P/NP)

Professor Eileen Lacey

Thursday 2:00-4:00, 5053 Valley Life Science Building, CCN: 43032

This seminar will meet for eight weeks, beginning August 27 and ending October 8.

Birds do it ... bees do it ... all members of sexually reproducing species find partners in order to produce offspring. The specific strategies that males and females use to acquire mates, however, vary dramatically and include some of the most unusual behaviors that animals exhibit. Using directed readings, student presentations, and in-class discussion, this seminar explores diversity among animal mating systems, including the reproductive strategies employed by humans. Building upon general principles derived from natural and sexual selection theory, we consider differences in fundamental aspects of reproductive behavior such as the number of partners per individual, the nature and strength of social relationships among partners, and which partner(s) provide care to young. **Seminar to be limited to 16 students. Students can be from any intended major or area of interest on campus. Waitlisted students should attend the first section in case openings become available.**

Eileen Lacey is a behavioral ecologist who studies the ecological and evolutionary bases for sociality in vertebrates, with an emphasis on mammals. Currently, Dr. Lacey's work focuses on the reasons for group living and cooperation in several species of South American rodents. Her analyses combine field studies of the behavior and ecology of these animals with molecular genetic analyses of patterns of parentage and kinship within social groups. At Berkeley, Dr. Lacey teaches courses in animal behavior, behavioral ecology, and mammalogy.

Natural Resources 84, Section I

Global Environment Theme House Sophomore Seminar (1 unit, P/NP)

Professors Matthew Potts and Peter Berck
Thursday 5:00-6:00, Foothill 4 - Classroom A (4301 Foothill 4), CCN: 61309

After the formal sessions, the professor and students may continue their discussion informally over dinner in the Dining Commons. Food for Thought dining arrangements and field trip arrangements will be discussed in class.

The goal of this Sophomore Seminar is to bring students and faculty together to explore issues such as global environmental change, policy and management of natural resources, sustainable rural and urban environments, and environmental leadership. The seminar will provide students and faculty a forum to exchange ideas, challenge one another's thinking, and share experiences in a small group setting. Students will have the opportunity to do research and teach their peers about regional to global environmental issues in preparation for Theme Program field trips and guest speakers. **Course enrollment is restricted to Global Environmental Theme House participants. Obtain CEC from the instructor. This seminar is part of the Food for Thought Seminar Series.**

Dr. Matthew D. Potts is an Assistant Professor of Forest Ecosystem Management in the Department of Environmental Science, Policy and Management. He has a broad interdisciplinary background with training in mathematics, ecology and economics. In addition, he has extensive international experience conducting field research in tropical rainforests throughout Southeast Asia. Dr. Potts' varied research interests include spatial aspects of resource management and epidemiology as well as how human actions, values, and ethics affect biodiversity conservation.

Peter Berck is a Professor of Agricultural and Resource Economics and Policy. He was an undergraduate at Cal, received a Ph.D. in Economics from MIT in 1976, and has been teaching at Cal ever since. His research has been on the economics of forestry, fisheries and water, on food security in developing nations, and on the costs of environmental regulation.

South and Southeast Asian Studies 84, Section I
Contemporary Southeast Asian Society and Culture through Film (2 units, LG)
Mr. Frank Smith, Ms. Maria Josephine Barrios-Leblanc and Mr. Bac Tran
Friday 4:00-6:00, 211 Dwinelle Hall, CCN: 83509

In this seminar we will examine contemporary Southeast Asian society and culture through the lens of contemporary Southeast Asian films, three each from Thailand, Vietnam and the Philippines. In discussions about the films in class we will seek to understand how these films mirror modern and traditional aspects of the societies in which they were produced. We will also consider the films as examples of current world cinema and vehicles of storytelling. In their four-page papers for each section of the course, students will address the above broad issues (referencing class discussions when appropriate) in relation to their own experiences and opinions, focusing either on one film or comparing two or three from the same country. **Students should plan to participate actively and consistently in class discussions, remembering that class participation makes up 25% of the grade in the course. Previous knowledge of or personal experience with Southeast Asian societies and cultures, and if possible Southeast Asian film, is desired but not required. Students with no previous knowledge of Southeast Asia who have experience watching and discussing a wide range of films from other countries with a critical eye are also welcome.**

Frank Smith has taught Khmer language since 1990 (since 2008 at UCB). He has done anthropological research on Khmer and Thai culture, taught a workshop on subtitling Southeast Asian film, taught classes on the Ramayana in Southeast Asian adaptation, and previously lived in Thailand for six years.

Maria Josephine Barrios-Leblanc has a Ph.D. in Filipino and Philippine Literature. She has taught classes on popular culture, Southeast Asian Culture and Philippine Literature. She has written five books including

From the Theater Wings: the Grounding and Flight of Women Playwrights (2006). Her essay "Why I Watch the Films of Sharon Cuneta" is used in film and humanities classes in several universities, among them, UP and UC.

Bac Tran has been a language lecturer at UC Berkeley since 1992. He is a co-translator of the collection of short stories titled The Stars, The Earth, The River (1997), as well as several other short stories in the anthologies The Other Side of Heaven (1995), Vietnam: A Traveler's Literary Companion (1996), Night, Again (1996), Virtual Lotus: Modern Fiction of Southeast Asia (2002), and Crossing the River (2003). He is currently translating some Vietnamese poetry into English.

Vision Science 84, Section I

The eyes have it in terms of diversity of design: Lessons to be learnt from comparing eye designs across the animal kingdom. (1 unit, P/NP)

Professor Christine Wildsoet

Thursday 4:00-6:00, 394 Minor Hall, CCN: 66411

First day of class will begin Thursday, September 3rd.

This seminar will review and compare structure of various components of the eye and its motor and neural accessories, by way of understanding the diversity of eye designs, as well as their strengths and limitations from a functional perspective. Examples where such analyses have spawned new bioengineering lines of research will be given. Some hands-on activities are planned. **Students with career plans that include vision research are likely to be interested in this seminar.**

Professor Wildsoet is on faculty in the School of Optometry, where she is involved in both clinical and pharmacology teaching. She is also a member of the Vision Science group. Her research is multidisciplinary as is her research group, which includes basic scientists, clinicians and bioengineers. The focus of research in her lab is myopia (near-sightedness), specifically the mechanisms underlying the development of myopia and its clinical management. The overriding goal of this research is the development of treatments for myopia. Under optimal conditions, young eyes adjust their eye growth to correct neonatal focusing errors. Understanding how this growth regulatory process is derailed in myopia can provide the keys to new treatments. Over the course of her research career, Professor Wildsoet has had opportunity to work with a range of animals and birds to address other questions related to eye design.