



**FALL 2011**

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

**Freshman and Sophomore Seminars  
University of California, Berkeley  
231 Evans 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 September 13, 2011.

## 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**  
**Language and Politics in Southern Africa (1 unit, P/NP)**  
**Professor Sam Mchombo**  
**Wednesday 1:00-2:00, 140 Barrows Hall, CCN: 00554**

**Food for Thought dining arrangements will be discussed in class.**

This seminar will focus on political developments in Southern Africa and the use of language in fostering national identity and attaining cultural emancipation. We will look at case studies representative of the dynamics of the region. The topics covered will include a brief history of the peoples of Southern Africa; family structure, kinship systems and traditional political institutions; cultural practices and religious beliefs; the impact of contact with western culture and civilization on language issues and political organization; language and its role in fostering national identity in post-independence Africa; models of national language policy in multi-ethnic societies; language use and democratic practice and human rights; the impact of AIDS on economic development and linguistic ecology; prospects of mother-education, and the use of African languages in science and technology. Since the course is a seminar, students will be expected to participate actively in the class. There will be a course reader. There will be no examinations. Grades will be based on one 500-word paper and class participation. **This seminar is part of the On the Same Page initiative. This seminar is part of the Food for Thought Seminar Series.**

Sam Mchombo is an Associate Professor in the Department of African American Studies and was a member of the Department of Linguistics faculty from 1988 to 2009. He received his B.A. from the University of Malawi and Ph.D. from the University of London. He pioneered and taught courses in Linguistics and African Language Structure in what is now the Department of African Languages and Linguistics in the University of Malawi. From 1985-1988 he was a member of the Linguistics faculty at San Jose State University, teaching courses on general linguistics, syntax, and semantics. His research focuses on grammatical theory and African linguistic structure. Recently, he has also focused on aspects of African politics, delivering talks at the World Affairs Council on emergent democracies, as well as human rights in Africa. His publications include *Theoretical Aspects of Bantu Grammar* (1993), *The syntax of Chichewa* (Cambridge University Press, 2004), and "Democratization in Malawi: Its Roots and Prospects," published in a volume edited by Jean-Germain Gros called *Democratization in Late Twentieth-Century Africa*. Other works include papers on "National Identity, Democracy and the Politics of Language in Malawi and Tanzania," as well as "The Role of the Media in Fostering Democracy in Southern Africa," both published in *The Journal of African Policy Studies*, "Religion and Politics in Malawi" in *Issues in Political Discourse Analysis* (2005), and "Sports and Development in Malawi" in *Soccer and Society* Vol. 7 No. 2-3, 2006. He has delivered invited lectures and conference presentations in Hong Kong, Europe, Mexico, and in Africa. In Spring 2003, he was appointed Distinguished African Scholar by the Institute for African Development at Cornell University.

Faculty web site: [http://linguistics.berkeley.edu/people/person\\_detail.php?person=26](http://linguistics.berkeley.edu/people/person_detail.php?person=26)

**Architecture 24, Section I**  
**New Horizons in Design: Products, Buildings and Cities (1 unit, LG)**  
**Professor Greig Crysler**  
**Tuesday 4:00-5:00, 172 Wurster Hall, CCN: 03702**

This class will explore a cross section through some of the most innovative examples of design from the last decade. Each week the class will explore a case study of architecture, urban design or product design. Our discussions will provide an introduction to some of the most exciting recent developments in design culture internationally. Students will read an article describing the weekly project from the designer's standpoint, or an analysis by a critic. Class discussions will focus on understanding both the designer's goals and the strengths and limitations of the project, as defined by the critic. **This seminar is part of the Connections@Cal initiative.**

Professor Greig Crysler is an Associate Professor in the Department of Architecture at UC Berkeley, where he teaches courses in architectural theory and criticism. He is also Associate Dean for Undergraduate Studies for the College of Environmental Design. His book, *Writing Spaces: Discourses of Architecture, Urbanism and the Built Environment, 1960-2000*, was published by Routledge in 2003. Crysler is co-editor, with Stephen Cairns and Hilde Heynen, of the *Handbook of Architectural Theory* (forthcoming from Sage Publications, 2011). This major collection contains over forty chapters of original research by prominent scholars from around the world, written from standpoints that are cross-cultural, comparative and interdisciplinary in outlook. Crysler is also completing a co-authored manuscript with the cultural geographer Shiloh R. Krupar entitled *Architectures of Globalization: Figures of Performance and Practice*.

Faculty web site:

<http://www.ced.berkeley.edu/ced/people/query.php?id=42&dept=all&title=all&first=C.&last=Crysler&ced&berkeley>

**Astronomy 24, Section I**  
**Cosmology and the Early Universe (1 unit, P/NP)**  
**Professor Steven Beckwith**  
**Thursday 2:00-4:00, B5 Hearst Annex , CCN: 06049**

**This seminar will meet ten weeks, beginning September 1, 2011. The remaining nine meeting dates, the field trip date and details, and the Food for Thought dining arrangements will be announced in class.**

This course will discuss the modern theory of the origin of the universe, how the early evolution of matter shaped the universe we see today, and why we believe it is all true. This course will use an interplay of observations and theory to explore how science helps us understand our own origins. It will introduce the students to quantitative reasoning on a grand scale without relying on advanced mathematics. We'll explore predictions of the standard Big Bang cosmology and how our most powerful telescopes see the evolution of matter from early times. My aim is to introduce interested students to modern cosmology and give them the tools to reason about the universe. We normally take one field trip to a local observatory or science center. **Students from all backgrounds and interests are welcome in this course, although most of the participants have an interest and aptitude for the physical sciences, and we often discuss wide-ranging topics in astrophysics by popular demand. The course stresses quantitative reasoning and the use of numbers and numerical predictions as a method of understanding nature. All students will learn to apply mathematical reasoning to understanding the fundamentals of cosmology. This seminar is part of the Food for Thought Seminar Series.**

Steven Beckwith is the Vice President for Research and Graduate Studies for the UC system and a Professor of Astronomy at Berkeley. He came to Berkeley most recently from Baltimore, Maryland, where he was the Director of the Space Telescope Science Institute, responsible for the science operations of the Hubble Space Telescope, and a Professor of Astronomy and Physics at Johns Hopkins University for nine years. Previously, he was Director of the Max Planck Institute for Astronomy in Heidelberg, Germany for seven years and a Professor of Astronomy at Cornell University for thirteen years. His research interests include the creation of galaxies in the early universe, the formation of planets around other stars, and the detection of life on extrasolar planets.

Faculty web site: <http://www.ucop.edu/research/beckwith.html>

**Civil and Environmental Engineering 24, Section I  
The Design and Construction of Biosand Filters for Developing Countries (1 unit,  
P/NP)**

**Professor John Dracup**

**See days and times below , See locations below, CCN: 13903**

**The first class meeting will be held on Thursday, August 25, 2011 from 6:00 - 7:00 p.m. in 212 O'Brien Hall. The second class meeting will be held on Saturday, September 10, 2011 from 9:00 a.m. - 3:00 p.m. in Professor Dracup's lab, 125 O'Brien Hall. The third class meeting will be held on Saturday, September 24, 2011 from 9:00 - 3:00 p.m. in Professor Dracup's lab, 125 O'Brien Hall. The fourth and final class meeting will be held on Wednesday, September 28 from 6:00 - 7:00 p.m. in 212 O'Brien Hall. Pizza and soft drinks will be served at all four of the class meetings. To obtain a passing grade, attendance at all of the four class meetings is mandatory. There will be no exceptions. Please check your schedule carefully before registering for this class**

UNESCO reports that 5,000 children under the age of five die each day in the developing world from the lack of clean water and sanitation. However, a simple cheap technology is available to mitigate this problem, which is the use of biosand filters. Biosand filters are becoming widely used in the developing world as a means of purifying drinking water for individual household use. They provide a cheap, effective means of removing pathogens, i.e., viruses, bacteria, worms, and water turbidity. Furthermore, biosand filters can be readily made from local sources of sand and gravel. The bio layer, which is located at the top of the sand column, can take up to several days or a few weeks to grow as the influent is initially poured through the sand and gravel column. The outer container can be made of plastic or concrete, materials that are commonly available in the developing world. The pipes and connections are usually made of 1 inch PVC pipes. The purpose of this seminar will be to build and test three of these biosand filters. The class of fifteen freshmen will be divided into three teams of five persons per team. Each team will build and test its own unique biosand filter. **Enrollment is limited to fifteen 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 in the University of California system for over forty years. His expertise is in water resource engineering and hydrology. His recent awards include being inaugurated into the "Order of the Black Blouse" by the Water Rights Court of Valencia, Spain; the designation of a Diplomat of the American Academy of Water Resource Engineering of the American Society of Civil Engineers; a Honorary Professorship at the Universidad Catolica St. Antonio of Murcia, Spain; and the "Agua para Todos" award from the Region of Murcia, Spain; he is a Fellow of the AGU, ASCE, AAAS and the AWRA. He swims competitively with Pacific Masters Swimming.

Faculty web site: <http://www.ce.berkeley.edu/faculty/faculty.php?id=205>

**Civil and Environmental Engineering 24, Section 2**  
**Skyscrapers and the World Trade Center (1 unit, P/NP)**  
**Professor Abolhassan Astaneh**  
**Wednesday 11:00-12:00, 544 Davis Hall, CCN: 13905**

This seminar discusses skyscrapers first: how they are designed and constructed; what motivates us to build them; and who designs and constructs them. Then for the remainder of the semester we will focus on the World Trade Center. Topics will include the initial design and construction of the World Trade Center, the 1993 unsuccessful terrorist attacks on it, and the attacks in 2001 that resulted in the tragic collapse of the towers and the loss of lives of more than 3000 innocent people. Finally, the plans for rebuilding the World Trade Center will be presented. Although the focus of the course is on design and construction aspects of skyscrapers and the World Trade Center, other aspects such as economical, political, social and historical issues will not be excluded from the discussion. The students are expected to participate in classroom discussions and prepare and submit a three-to-five-page term report on a subject related to the WTC assigned to them. **The seminar is open to all Berkeley freshmen in all fields.**

Professor Astaneh is a member of the faculty in the Department of Civil and Environmental Engineering. His area of specialty is behavior and design of structures to withstand gravity, seismic and blast loads. He has conducted several major research and design projects on long span bridges and tall buildings. He teaches graduate and undergraduate courses in structural engineering. A few days after the September 11th tragedies, armed with a grant from the federal National Science Foundation, he traveled to New York and for several weeks conducted field investigation of the collapsed towers of the World Trade Center. In May of 2002, he testified before the Committee on Science of U.S. House of Representatives. He and his research students and associates conducted an extensive study of the World Trade Center collapse during 2001-2007 period to learn from this tragedy as much as possible in the hope of preventing such collapses in the future. The findings of the study will be discussed in the seminar as well.

**Classics 24, Section 1**  
**Homer's 'Odyssey'—The Text and the Mythology (1 unit, P/NP)**  
**Professor Anthony Bulloch**  
**Monday 4:00-5:00, 204 Dwinelle Hall, CCN: 14733**

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.

Faculty web site: [http://classics.berkeley.edu/people/faculty/person\\_detail.php?person=17](http://classics.berkeley.edu/people/faculty/person_detail.php?person=17)

**Comparative Literature 24, Section 1**  
**Reading and Reciting Great Poems in English (1 unit, P/NP)**  
**Stephen Tollefson**  
**Tuesday 4:00-5:00, 203 Wheeler Hall, CCN: 17287**

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**  
**Polyglots, Vagabonds, and Interpreters in the European Renaissance (1 unit, P/NP)**  
**Professor Timothy Hampton**  
**Friday 12:00-1:00, 123 Dwinelle Hall, CCN: 17289**

"I understand," he said, "but what?" – Rabelais

What language do they speak in Utopia? How did Columbus communicate with the Native Americans? How can you make a peace treaty if no one speaks the same language? How can you recognize invisible writing? In this seminar we will consider these and other pressing questions about the role of different languages in culture and politics. Our focus will be on the Renaissance, the cultural moment that sees the European encounter with America and China, the rise of the printing press, and the birth of the modern nation state, among other things. We will read several literary texts by major authors in which themes of linguistic diversity and inter-lingual communication are stressed. We will study these works, along with material from travelers' accounts and explorers' journals, as well as writings by modern scholars interested in the relationship between the rise of modern vernacular languages, national identity, and colonialism. **All readings and discussion will be in English. No knowledge of any other language is required. Books for this class are available at University Press Books, 2430 Bancroft Way. This seminar is part of the On the Same Page initiative.**

Timothy Hampton is a Professor of French and Comparative Literature. He teaches and writes widely on early modern European literature and culture.

Faculty web site: [http://complit.berkeley.edu/?page\\_id=238](http://complit.berkeley.edu/?page_id=238)

**Economics 24, Section 1**  
**The Financial Crisis and the Great Recession of 2007-2012 (1 unit, LG)**  
**Professor J. Bradford DeLong**  
**Friday 4:00-5:30, 597 Evans Hall, CCN: 22386**

**This seminar will meet for ten weeks beginning Friday, August 26, 2011. The remaining nine meeting dates will be announced in class.**

Ever since at least 1825, industrial market economies have suffered from financial panics and business cycles: economic epileptic seizures that start with some financial derangement and then propagate through the economy creating large-scale joblessness and idle factories, with employment ebbing away with distressing slowness. At least three times—in the 1920s, in the 1960s, and again in the early 2000s—economists and policy makers were confident that they had the business cycle licked. All three times they have been wrong. How did the vulnerabilities that opened us to the financial crisis of 2007-2008 develop? Why did the crisis then trigger a downturn that has so far cost us \$4 trillion and the world \$12 trillion in destroyed wealth? And why is our recovery so slow and halting? These are, none of them, settled issues: these are all research questions. **Enrollment is limited to ten freshmen. Preference will be**

**given to students who have scored 5 on both the microeconomics and macroeconomics AP examinations ( 7 on the IB exam or "A" in A-levels).**

J. Bradford DeLong is Professor of Economics and chair of the Political Economy major at U.C. Berkeley. He was a deputy assistant secretary of the Treasury from 1993-1995. He is currently writing an introductory economics textbook, an economic history of the twentieth century, and a study of the effectiveness of expansionary fiscal policy in a depressed economy.

Faculty web site: [http://elsa.berkeley.edu/econ/faculty/delong\\_j.shtml](http://elsa.berkeley.edu/econ/faculty/delong_j.shtml)

### **Education 24, Section I**

**Behind the Scenes at Berkeley: Perspectives on Public Higher Education (1 unit, P/NP)**

**Associate Chancellor Beata FitzPatrick**

**Wednesday 12:00- 1:00, 125 Dwinelle Hall, CCN: 23523**

In this seminar, you will have the opportunity to examine how university leaders at Berkeley make decisions on key issues that shape what kind of university you attend. What will the student body look like? What kinds of faculty will there be? How much and how should students be paying for their education? Will you have access to the classes, services and facilities you need? How are varsity sports funded? By looking at how some of these important decisions are made at Berkeley, examining how they are viewed from a variety of perspectives by various campus constituencies, and how they are reported in the media, the seminar will engage in lively discussion to help deepen your understanding of some of the current issues and complex challenges confronting public higher education and how the university is responding to these challenges.

Beata FitzPatrick, Ph.D., is Associate Chancellor at UC Berkeley where she works closely with Chancellor Robert Birgeneau on issues in public higher education. She has had a career in higher education administration for over twenty-five years both in the US and in Canada. She is associated with the Center for Studies in Higher Education.

Faculty web site: <http://office.chancellor.berkeley.edu/BeataFitzPatrick/index.shtml>

### **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: 25250**

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.

Faculty web site: <http://www.eecs.berkeley.edu/~jbokor/>

#### **Engineering 24, Section 4**

#### **Freshman Seminar: Introduction to Engineering Studies (1 unit, P/NP)**

**Professor Fiona Doyle**

**Monday 1:00-2:00, 240 Bechtel Engineering Center, CCN: 27695**

Introduction to Engineering Studies will emphasize leadership development and scholarship, and provide students with an orientation to their new academic environment. **Enrollment in this seminar is limited to new engineering freshmen. Instructor approval required. Direct enrollment questions to Vanessa M. Rivera at [vrivera@berkeley.edu](mailto:vrivera@berkeley.edu)**

Fiona Doyle obtained her bachelor's degree from the University of Cambridge, and her master's and doctorate in hydrometallurgy from Imperial College, University of London. She joined the Berkeley faculty in 1983. She was appointed to the Donald H. McLaughlin Chair in Mineral Engineering in 1998. She served as Chair of the Department of Materials Science and Engineering from 2002 to 2005. From 2005 to 2009 she was Executive Associate Dean of the College of Engineering at Berkeley. From 2009 to 2011 she was Vice Chair then Chair of the Berkeley Division of the Academic Senate. Her research focuses on solution chemistry in the processing and behavior of minerals, materials, wastes and effluents. Professor Doyle has taught undergraduate and graduate courses relating to engineering chemistry, mineral engineering, surface properties of materials, solution processing of materials, corrosion, and electrometallurgy.

Faculty web site: <http://www.mse.berkeley.edu/faculty/Doyle/Doylebio.html>

#### **English 24, Section I**

#### **Reading Walden Carefully (1 unit, P/NP)**

**Professor Mitchell Breitwieser**

**Tuesday 2:00-3:00, 205 Wheeler Hall, CCN: 28043**

We will read Thoreau's Walden in small chunks, probably about thirty pages per week. This will allow us time to dwell upon the complexities of a book that is much more mysterious than those who have read the book casually, or those who have only heard about it, realize. We will also try to work some with online versions of the book, using the wordsearch command to identify words such as "woodchuck" or "dimple" that reappear frequently, in order to speculate on patterns Thoreau is trying to establish. Regular attendance and participation, along with a loose five-page essay at the end, are required.

Mitchell Breitwieser has taught American literature in the Berkeley English department for thirty-one years.

Faculty web site: [http://english.berkeley.edu/contact/person\\_detail.php?person=19](http://english.berkeley.edu/contact/person_detail.php?person=19)

**English 24, Section 2**  
**Procrastination: Theory and Practice (1 unit, P/NP)**  
**Professor Susan Schweik**  
**Tuesday 10:00-11:00, 201 Wheeler Hall, CCN: 28045**

Why do we procrastinate? What can we do to stop it? This course explores procrastination both as a practical problem and as a springboard for theoretical inquiry into questions of choice, will, agency, rationality and morality. We'll read (slowly and thoughtfully) some serious philosophical work on the subject, and we'll explore some literary, artistic and filmic representations that shed light on the processes of procrastinating. Not least, we'll critically examine, and then try out, various strategies for coping with procrastination. I can be talked into admitting you into this course if you don't procrastinate. Actually, if that's the case I'd very much like to meet you. If you do procrastinate, hey, why not take this course NOW? **This seminar is part of the Connections@Cal initiative.**

Susan Schweik is a Professor of English and Associate Dean of Arts and Humanities. Does she procrastinate? What do you think?

Faculty web site: [http://english.berkeley.edu/contact/person\\_detail.php?person=68](http://english.berkeley.edu/contact/person_detail.php?person=68)

**English 24, Section 3**  
**Jane Austen (1 unit, P/NP)**  
**Professor Morton D. Paley**  
**Tuesday 2:00-4:00, Central L45 in Unit III, CCN: 28760**

**This seminar will meet for eight weeks, beginning September 6, 2011 and ending October 25, 2011. Please note the first class meeting will be on the Tuesday after Labor Day.**

This seminar is meant to be an interesting and pleasant introduction to the study of a great novelist: Jane Austen. We'll read and discuss two novels: *Sense and Sensibility* and *Emma*. We'll approach the novels from a number of different perspectives, including (but not limited to) the roles of class and gender, Austen's language, plot structure, "point of view," the thematization of moral concerns, and the interplay of her fiction and the history of her time. We'll spend at least one meeting (or two if there is sufficient interest) on film versions of the two novels. We'll also discuss various critical approaches to the two works.

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 4**  
**David Copperfield (1 unit, P/NP)**  
**Professor Robert Tracy**  
**Monday 3:00-5:00, Room L20, Unit II (2650 Haste), CCN: 28763**

**Our first meeting will be on Monday, September 12, 2011; our last meeting will be on Monday, October 31, 2011.**

In *David Copperfield* (1849-50), Charles Dickens writes a novel about a novelist named David Copperfield who writes a novel about Charles Dickens—for many of David's adventures and ordeals mirror Dickens's own experiences that prepared him to be a novelist. In the novel he called "his favorite child" Dickens examines his own right—and David's—to be considered "the hero of his own life." The novel explores the role of emotional pain in the development of a novelist, while at the same time surrounding David with

some of the comically grotesque characters that peopled Dickens's imagination. We will be examining David Copperfield as a confessional novel, as a success story, as a major work of English literature, and as popular entertainment. Since David Copperfield features characters speaking in a variety of ways—country people, Cockneys, teachers, lawyers, clerks, gentry—as well as David's narrative voice, we will also participate in this year's On the Same Page program. This novel offers excellent opportunities to explore diverse usages of language and how they reflect how people think. David Copperfield was originally published as a twenty-part serial and we will read it serially, adjusting the text to fit our eight-week schedule. I ask you to read chapters 1-9 for our first meeting. Please try not to read ahead of assignment for subsequent meetings. **This seminar is part of the On the Same Page initiative.**

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. In 2008-09 he was President of the Dickens Society.

**English 24, Section 5**  
**The Arts at Berkeley and Beyond (1 unit, P/NP)**  
**Professor Genaro Padilla**  
**Wednesday 3:00-4:00, 223 Wheeler Hall, CCN: 28766**

**Food for Thought, field trip and performance dates and arrangements will be discussed in class.**

In this seminar we will attend literary, art, and musical performances in and around Berkeley to introduce first year students to the astonishing range of cultural production on the campus and in the Bay Area. We will visit the Berkeley Art Museum as well as museums in Oakland and San Francisco, we will attend dance, theater, and musical performances at Zellerbach and Hearst Halls, we will view manuscripts, photography and graphic arts at the Bancroft Library. And, we will engage in discussion based on short papers by the students in the seminar. **This seminar is part of the Connections@Cal initiative. This seminar is a Berkeley Arts Seminar. Admission to the on-campus arts events included in this course will be provided at no cost to students. This seminar is part of the Food for Thought Seminar Series.**

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

Faculty web site: [http://english.berkeley.edu/contact/person\\_detail.php?person=61](http://english.berkeley.edu/contact/person_detail.php?person=61)

**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: 28948**

**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.

Faculty web site: <http://ecnr.berkeley.edu/facPage/disFP.php?l=645>

**Environmental Science, Policy, and Management 24, Section 2**  
**Discussions on Evolutionary Biology (1 unit, P/NP)**  
**Professor Philip Spieth**  
**Wednesday 3:00-4:00, 106 Mulford Hall, CCN: 2895 I**

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.

Faculty web site: <http://ecnr.berkeley.edu/facPage/disFP.php?l=637>

**Environmental Science, Policy, and Management 24, Section 3**  
**Food Security, Waste, Water, and Everyday Chemicals (Are They Safe?) (1 unit, P/NP)**  
**Professor Gordon Frankie**  
**Wednesday 10:00-11:00, 106 Mulford Hall, CCN: 28953**

The course will examine several different and current aspects of food quality and security and what is and can be done to improve quality and security. The topic of waste is an old one, but recent studies have opened the issue again with a fresh new look at the complexities of waste that will be discussed in class. Water continues to be in short supply in California, and the shortages have caused a wide variety of problems, which will receive air time. Finally, the growing concern over the safety of everyday chemicals will be explored. Several recent books/reports will provide good reference material.

Gordon Frankie is Professor of Insect Biology in the College of Natural Resources at UC Berkeley. He received his Ph.D. in entomology from UC Berkeley in 1968. His research interests are in plant reproductive biology, pollination ecology, and solitary-bee biology. One of his current projects deals with surveying and recording relationships of native bees and their ornamental host plants throughout California, with the goal of developing a user-friendly book on urban bee ecology and urban bee gardening. His field research time is split between California and the seasonally dry tropical forests of Costa Rica. He teaches several lecture and field courses in applied conservation biology and environmental problem solving at UC Berkeley and is developing environmental education to be used by schools, museums and commercial nurseries.

Faculty web site: <http://ecnr.berkeley.edu/facPage/disFP.php?l=578>

**Environmental Science, Policy, and Management 24, Section 4**  
**What is Environmental Science? (1 unit, LG)**  
**Professor Dennis Baldocchi**  
**Friday 3:00-4:00, 410 Wellman Hall, CCN: 30373**

**This seminar will meet on six Fridays: August 26, September 2, September 9, September 16, September 30 and October 7, 2011. It will also meet on Saturday, September 10, 2011 for a half-day field trip in the morning and on Saturday, October 8, 2011 for a full-day field trip. Field trip arrangements will be discussed in class.**

The seminar will cover such topics as these: What is environmental science? How do we study the environment? What are some key environmental problems, today and yesterday? What may be future environmental problems and solutions, and what is involved in becoming an environmental science major?

Dennis Baldocchi is a Professor of Biometeorology. He received his BS from UC Davis and PhD from the University of Nebraska. Biometeorology involves studying the interactions between weather and life. His research concentrates on studying the transfer of trace gases between ecosystems and the atmosphere. It involves theoretical and laboratory work on campus and field work in California and across the globe. His current field work focuses on water use and carbon sequestration of oak savannas and on the methane emission of rice and wetlands in the Delta.

Faculty web site: <http://nature.berkeley.edu/biometlab>

**French 24, Section I**  
**Introduction to the Films of the French New Wave (1 unit, P/NP)**  
**Professor Nicholas Paige**  
**Monday 5:30 - 7:30 p.m. and Tuesday 2:00 - 3:00 p.m. , two locations - see below,**  
**CCN: 32329**

**Mandatory weekly screenings will take place on Mondays from 5:30 - 7:30 p.m. in 170 Barrows Hall. Discussions will take place on Tuesdays from 2:00 - 3:00 p.m. in 210 Dwinelle Hall.**

The goal of this seminar is to introduce students to a number of representative films of the French New Wave, perhaps the most important and emblematic moment in modern cinema. Along the way, we will look at the theoretical and cultural factors that help explain this extraordinary flowering of filmmaking talent in the late 1950s and early 1960s; and we will also be reading a few important short essays from the period that will help bring the films' originality into focus. Movies screened will be subtitled and will include works by Truffaut, Godard, Varda, Demy, Rohmer, Eustache, and others. **Course will be accessible to the general student body. No French necessary. Interest in film history is a plus.**

Professor Paige teaches mainly classes in seventeenth- and eighteenth-century French literature and culture, with special interest in aesthetics and the history of the novel. A new book on the latter will be coming out in Fall 2011. He has also published on the director Jean-Luc Godard.

Faculty web site: <http://french.berkeley.edu/people/detail.php?person=12>

**Geography 24, Section I**  
**What Does It Mean to be Modern? (1 unit, P/NP)**  
**Professor Michael Watts and Ms. Shaina Potts**  
**Wednesday 1:00-2:00, 575 McCone Hall, CCN: 36833**

**Exhibits and performance dates and arrangements will be discussed in class.**

What does it mean to be modern, or live in a modern society? What distinguishes the modern from the non-modern? How might we think about words like modernity, modernization and modernism? To what do they refer and what are their origins? This seminar will explore these questions by reading some key texts by a variety of intellectuals and thinkers who have explored the various and complex meanings of being modern and the fundamental contours of modern life. We shall read works by Karl Marx, Hanna Arendt, Charles Baudelaire, Michel Foucault, Friedrich Nietzsche, Max Weber and others who help us explore what stands at the heart of modernity and being modern. We will also attend exhibits and performances on campus and discuss modernism as it is expressed in the visual and performing arts.

**Bright, eclectic and motivated students with any background or interest who have an interest in exploring challenging ideas and in reading a wide variety of materials, often of a philosophical orientation. This seminar is a Berkeley Arts Seminar. Admission to the on-campus arts events included in this course will be provided at no cost to students.**

Michael Watts is Class of '63 Professor of Geography and Development Studies. A Guggenheim Fellow in 2003, he served as the Director of the Institute of International Studies from 1994-2004. His research has addressed a number of development issues, especially food and energy security, rural development, and land reform in Africa, South Asia and Vietnam. Over the last twenty years he has written extensively on the oil industry in West Africa and the Gulf of Guinea. Watts has served as a consultant to the Ford and Rockefeller Foundations and a number of NGOs and foundations. Watts is currently the Chair of the Board of Trustees of the Social Science Research Council and serves on a number of Boards of non-profit organizations including the Pacific Institute.

Faculty web site: [http://geogweb.berkeley.edu/PeopleHistory/faculty/M\\_Watts.html](http://geogweb.berkeley.edu/PeopleHistory/faculty/M_Watts.html)

Shaina Potts is a doctoral student completing her PHD in Geography. She was trained in History and Philosophy at UC Berkeley as an undergraduate and is currently completing a dissertation on the rise of the dominant role of finance in US capitalism and exploring the dynamics of the global financial crisis in 2008-2009.

**History 24, Section I**  
**Paris Across the Ages (1 unit, P/NP)**  
**Professor Tyler Stovall**  
**Tuesday 10:30-12:00, 2303 Dwinelle Hall, CCN: 39204**

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

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.

Faculty web site: <http://history.berkeley.edu/faculty/Stovall/>

### **History of Art 24, Section I**

#### **Translating Pictures: Early Modern Cultural Exchange (1 unit, P/NP)**

**Professor Todd Olson**

**Tuesday 2:00-4:00, 425 Doe Library, CCN: 04802**

**This seminar will meet seven weeks on the following dates: August 30, September 6, September 13, September 20, September 27, October 4, and November 29, 2011.**

Pictures are often taken to be a universal language available to diverse linguistic communities. We assume that two stick figures painted on a sheet of metal warns drivers, regardless of their cultural knowledge or language, that a school is nearby. Yet, such “reading” of pictures is based on learning a visual language and its conventions. Assuming that pictures are universal signs can lead to mistranslations and the production of new meanings. This seminar will examine the transmission and exchange of pictures during a major period of cultural convergence, European intervention in the Americas and Asia during the 16th century. The French, Dutch and English who interacted with non-European peoples made assumptions about the universality of visual communication and left pictorial records in prints. The Spanish who conquered Mexico encountered complex societies with sophisticated pictorial traditions. The survival of the glyphic traditions in copies of Mexican codices and post-Conquest documents entailed the (mis)translation and convergence of European and indigenous pictorial conventions. Participants in the seminar will work with materials in the collection of the Bancroft Library. Several seminar meetings will take place in the Bancroft Library, where we will discuss readings and examine materials in the collection. Each member will select an illustrated book or other object, such as a map or a print, in consultation with the instructor, conduct research and present a short, explorative final paper to the group. The group will pool together their diverse linguistic and visual capacities. **This seminar is part of the On the Same Page initiative.**

Todd P. Olson is Associate Professor of History of Art. His teaching and publications concern the Early Modern visual and material cultures of France, Italy and New Spain. His forthcoming book is entitled *Caravaggio's Pitiful Relics*.

Faculty web site: [http://arthistory.berkeley.edu/Faculty\\_Olson.html](http://arthistory.berkeley.edu/Faculty_Olson.html)

### **Industrial Engineering and Operations Research 24, Section I**

#### **Overview of IEOR (1 unit, P/NP)**

**Professor Ken Goldberg**

**Wednesday 4:00-5:00, 3105 Etcheverry Hall, CCN: 41003**

**Field trip arrangements will be discussed in class.**

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>.

Faculty web site: <http://goldberg.berkeley.edu/>

### **Integrative Biology 24, Section 1**

#### **Biology: The Study of Life (1 unit, P/NP)**

**Professor Tyrone Hayes**

**Wednesday 5:00-7:00, 2063 Valley Life Sciences Building, CCN: 43003**

**This seminar meets the entire semester. 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](http://atrazinelovers.com).

Faculty web site: <http://atrazinelovers.com>

### **Integrative Biology 24, Section 2**

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

**Professor George Bentley**

**Tuesday 2:00-3:00, 4110 Valley Life Sciences Building, CCN: 43006**

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](http://ib.berkeley.edu/research/interests/research_profile.php?person=17).



Faculty web site: [http://ib.berkeley.edu/research/interests/research\\_profile.php?person=17](http://ib.berkeley.edu/research/interests/research_profile.php?person=17)

**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.

Faculty web site: [http://ib.berkeley.edu/research/interests/research\\_profile.php?person=245](http://ib.berkeley.edu/research/interests/research_profile.php?person=245)

**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. This course is designed to be taken for a letter grade. Students who elect to take this seminar should enroll under the letter grade option.**

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.

Faculty web site: [http://ib.berkeley.edu/people/faculty/person\\_detail.php?person=166](http://ib.berkeley.edu/people/faculty/person_detail.php?person=166)

**Integrative Biology 24, Section 5**  
**Ethnobiology, Nutrition, and Global Food Systems (1 unit, P/NP)**  
**Dr. Thomas Carlson**  
**Wednesday 10:00-11:00, 4110 Valley Life Sciences Building, CCN: 43015**

In this seminar we will read Michael Pollan's Omnivore's Dilemma, Gary Nabhan's Where Our Food Comes From and other select literature on related topics. We will explore the ethnobiological systems around the world that generate thousands of different species of plants and animals eaten by humans. We will examine the historical, cultural, commercial, and biological factors that have resulted in the worldwide consumption of certain plant (e.g., corn) and animal (e.g., cows) species. We will also compare the nutritional qualities, health effects, and carbon footprint of industrial food, organic food, locally grown food, and food that is hunted or gathered.

Dr. Thomas Carlson is an ethnobotanist, botanist, and physician who has conducted food and medicinal plant research with numerous different ethnolinguistic groups in Africa, Asia, Oceania, and the Americas. He has published articles in a spectrum of different disciplines including pharmacology, chemistry, experimental biology, nutrition, botany, ethnobotany, and anthropology. Dr. Carlson teaches courses in medical ethnobotany, botany, California plant life, and human reproduction.

Faculty web site: [http://ib.berkeley.edu/research/interests/research\\_profile.php?person=40](http://ib.berkeley.edu/research/interests/research_profile.php?person=40)

**Integrative Biology 24, Section 6**  
**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: 43018**

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 as much about the process of science as it is about animal navigation. We will first explore examples of animal navigation and how the underlying mechanisms are being researched. We will then examine experiments that suggest a human navigation ability based on geomagnetic input, and finally we will design an experiment to test if humans have the ability to detect and/or use a geomagnetic sense as do many other animals. **This seminar is designed for students interested in the biological sciences. 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.

Faculty web site: [http://ib.berkeley.edu/research/interests/research\\_profile.php?person=38](http://ib.berkeley.edu/research/interests/research_profile.php?person=38)

**Integrative Biology 24, Section 7**

**Night (and Day) in the Museum: What Really Goes on in Berkeley's Museum of Vertebrate Zoology? (1 unit, P/NP)**

**Professor Eileen Lacey**

**Tuesday 3:00-5:00, 3101 Valley Life Sciences Building, CCN: 43020**

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

Ever wonder what museum curators really do? Through a combination of tours, hands-on exercises, and student projects, we will explore the diverse activities encompassed by modern natural history museums. This is a rare chance to go behind the scenes at one of the top vertebrate natural history collections in North America ... and learn how you could become involved in museums-based studies of vertebrate evolution and conservation. **If you are manic for mammals, bonkers for birds, or red-hot for reptiles and amphibians, this could be the seminar for you! The course is open to all freshmen, but we are particularly eager to recruit prospective biology majors who are likely to develop long-term affiliations with the Museum of Vertebrate Zoology and its Undergraduate Apprentice Program. This seminar is part of the Connections@Cal initiative.**

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.

Faculty web site: <http://ib.berkeley.edu/labs/lacey/>

**Italian Studies 24, Section I**

**The Mafia: History and Fiction (1 unit, P/NP)**

**Professor Mia Fuller**

**Thursday 2:00-3:00, 6331 Dwinelle Hall, CCN: 46953**

Everyone loves the mafia –at least in films, on television, and in books. Why? And what is 'the' mafia? In this seminar we will explore fictional and non-fictional explanations of the mafia as an originally unique, Italian phenomenon, and as a closed social, economic, and psychological system based on brutality and secrecy. Our materials will include a few essential readings with discussion of classic films and TV representations.

Mia Fuller, Ph.D. Berkeley, is Associate Professor of Italian Studies. She is a cultural anthropologist who has combined fieldwork and archival research in her studies of architecture and city planning in the Italian colonies between 1869 and 1943. Her book on the subject, *Moderns Abroad: Architecture, Cities, and Italian Imperialism*, was published by Routledge in 2007. She is also the co-editor (with Ruth Ben-Ghiat) of *Italian Colonialism: A Reader* (Palgrave, 2005). Currently, she is preparing an ethnographic, architectural, and oral-historical study of the Fascist-era 'New Towns' built in 1930s Italy.

Faculty web site: <http://italian.berkeley.edu/people/profile.php?id=19>

### **Japanese 24, Section I**

#### **Anime Japan (1 unit, P/NP)**

**Professor Dan O'Neill**

**Monday 5:00-6:00 for discussion and 6:00-8:00 for screening, See two locations below., CCN: 21095**

**This seminar will meet for three hours per week: one hour for discussion and two hours for screening. The discussion location is 225 Dwinelle Hall. The screening location is 188 Dwinelle Hall.**

This seminar is an introduction to Japanese animation, or anime. We will screen several animated feature films and read critical works with a focus on the themes of gender, sexuality and the contours of the post-human. Students will be introduced to a number of approaches to analyzing and understanding Japanese popular culture. **Attendance at the first meeting is mandatory to secure your place in the course.**

Dan O'Neill is an Associate Professor in the East Asian Languages and Cultures Department. His research interests include modern Japanese literature, film and popular culture.

Faculty web site: <http://ieas.berkeley.edu/faculty/oneill.html>

### **Journalism 24, Section I**

#### **London Calling: Producing the News at the BBC (1 unit, LG)**

**Professor William J. Drummond**

**Tuesday 2:00-3:30, 127 North Gate Hall, CCN: 48003**

**This seminar will meet for ten weeks, beginning October 4, 2011 and ending December 6, 2011. Food for Thought dining arrangements will be discussed in class.**

The BBC (British Broadcasting Co.) is one of the most distinguished and comprehensive news organizations in the world. You don't have to be British to be a fan. The BBC, in cooperation with Oxford University Press, has launched an on-line College of Journalism. This seminar will use the College of Journalism (CoJo) to explore the inner workings of how the BBC covers the news around the world. It will examine the many tutorials dealing with questions of ethics, bias, and fairness, as framed by the management of the BBC. Students will also get a glimpse of the hands-on, practical techniques used by BBC reporters, editors and producers to turn out their news product. CoJo is audio, visual and textual. The goal of the course is to introduce students to the internal workings of a great news organization and to provide a basis for contrast with the policies and practices of US media companies. **This seminar is part of the Connections@Cal initiative. This seminar is part of the Food for Thought Seminar Series.**

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.

Faculty web site: <http://journalism.berkeley.edu/faculty/drummond/>

### **Journalism 24, Section 2**

#### **Talkin' bout My Generation (and a Few of the Others) (1 unit, P/NP)**

**Lecturer Susan Rasky**

**Tuesday 11:30-1:00, 104 North Gate Hall, CCN: 48005**

**This seminar will meet the entire semester.**

Talkin' bout my generation (and a few of the others)—The song is an oldie, <http://www.youtube.com/watch?v=cH9lgjZCx4c>, but the theme is eternal. Each generation has its own look, its own voice and the distinctive life experiences that separate it from all others. This seminar will start with demographics and move to history, pop culture, technology and politics to get a fix on those of you born in the early 1990s. We will be creating our own web site and writing weekly about what makes you tick. **Enrollment is limited to twelve freshmen. This seminar is for students with strong writing and research skills as well as simple web design capabilities. This seminar is part of the Connections@Cal initiative.**

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.

Faculty web site: <http://journalism.berkeley.edu/faculty/rasky/>

### **Letters and Science 24, Section I**

#### **Looking at Berkeley Buildings (1 unit, P/NP)**

**Professor David Wright**

**Wednesday 2:00-4:00, 104 Moffitt Library, CCN: 51830**

**This seminar will meet for twelve weeks, beginning August 31, 2011 and ending November 16, 2011. Participation in the first seminar meeting is essential. 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—from the Classical Language of Architecture to the Modern—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 simplified 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 with 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 studied Physics at Harvard for three years just after the war, but 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.

Faculty web site: [http://arthistory.berkeley.edu/Faculty\\_Emeritus.html](http://arthistory.berkeley.edu/Faculty_Emeritus.html)

**Linguistics 24, Section 1  
Language Myths (1 unit, P/NP)  
Professor Larry Hyman  
Monday 2:00-3:00, 233 Dwinelle Hall, CCN: 52245**

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 lesser 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. This seminar is part of the On the Same Page initiative.**

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.

Faculty web site: [http://linguistics.berkeley.edu/people/person\\_detail.php?person=19](http://linguistics.berkeley.edu/people/person_detail.php?person=19)

**Linguistics 24, Section 2  
Your Languages at Cal (1 unit, P/NP)  
Professor Susanne Gahl  
Monday 9:00-10:00, 233 Dwinelle Hall, CCN: 52247**

In this seminar, you will examine your language background and current linguistic experience, and you will learn about language development in adults. Readings will include first-person accounts of language loss, and some research reports of the effects of exposure to new speech patterns and accents. All participants are expected to do some research and report on their own language background and current linguistic environment. Such reports will touch on the following questions, among others: What languages and dialects do you regularly encounter in your life at Cal? What languages do you speak, and what languages did you speak when you were younger? What languages do/did your parents and grandparents speak? **This seminar is part of the Connections@Cal initiative. This seminar is part of the On the Same Page initiative.**

Susanne Gahl is an assistant professor of Linguistics and Cognitive Science. She is the mother of a (currently) trilingual child who may soon lose his ability to talk to his grandparents and cousins in their native languages.

Faculty web site: [http://linguistics.berkeley.edu/people/person\\_detail.php?person=147](http://linguistics.berkeley.edu/people/person_detail.php?person=147)

**Linguistics 24, Section 3**  
**Language Games (1 unit, P/NP)**  
**Professor Sharon Inkelas**  
**Monday 1:00-2:00, 259 Dwinelle Hall, CCN: 52662**

Language games appear to be universal, in the sense that they exist in every language, although they exhibit a great deal of variety. The ease with which they are invented makes them an interesting window onto how speakers analyze and manipulate the structures of their own languages. This course will explore language games from around the world, from language play of young children to conventionalized speech disguises found in adult languages to the spontaneous language games of college students. Students will read some literature and do some linguistic investigations of their own. **Anyone who loves playing with language should enjoy this course. This seminar is part of the On the Same Page initiative.**

Sharon Inkelas is Professor and Chair of the Linguistics Department. She received her PhD in Linguistics from Stanford University in 1989. Her research focuses on phonology (sound systems) and morphology (word structure) of the world's languages, focusing on cross-linguistic patterns and differences. She has also conducted research in child language acquisition.

Faculty web site: <http://www.linguistics.berkeley.edu/~inkelas/>

**Mathematics 24, Section I**  
**Mathematics in Film and Fiction (1 unit, P/NP)**  
**Professor Olga Holtz**  
**Tuesday 4:00-5:00, 150 Moffitt Library - Media Resource Center's Group Room B, CCN: 53942**

**Students will need to provide Cal ID cards at the Moffitt security gate in order to get in the library.**

"Something's going on. It has to do with that number. There's an answer in that number."— Maximilian Cohen, in  $\pi$  (1998).

This course will offer an exploration of mathematics through the lenses of a camera, the stage of a theater, and the language of a book. Can mathematics as a science, the thrill of its pursuit, or the idiosyncrasies of its practitioners be accurately portrayed in these media? Is such an accurate portrayal at all necessary or important? What societal beliefs and misconceptions are reflected in the works of literature and film dealing with mathematics? What is behind the stereotype of a crazy mathematician? How can one tell a compelling story about math to a non-mathematical audience? We will meet once a week to watch, read, argue about, and (try to) understand the mathematics within the world of literature and film. Besides reading and viewing, the students will be expected to take a very active part in class discussion and to make short presentations, which could include critique of a movie fragment, analysis of a literary text, or even a short mathematical proof. **This class is intended for students with substantial interest in mathematics, film and literature.**

Olga Holtz received her PhD [2000] in Mathematics from the University of Wisconsin, Madison. She subsequently held postdoctorate positions in mathematics and computer science in the U.S. and Germany. Currently, Holtz is a Professor of Mathematics at the University of California, Berkeley, a Professor of Applied Mathematics at Technical University Berlin, and a Professor of Berlin Mathematical School. Her non-mathematical interests include music, dance, film and literature.

Faculty web site: <http://www.cs.berkeley.edu/~oholtz/>

### **Mathematics 24, Section 2**

#### **What is Happening in Math and Science? (1 unit, P/NP)**

**Professor Jenny Harrison**

**Tuesday 3:00-4:00, 891 Evans Hall, CCN: 53944**

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! **This seminar is intended for students who love math and science and want to discuss the latest developments in an atmosphere that fosters creative thought. 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.

Faculty web site: [http://en.wikipedia.org/wiki/Jenny\\_Harrison](http://en.wikipedia.org/wiki/Jenny_Harrison)

### **Mathematics 24, Section 3**

#### **The Mathematics of Gambling (1 unit, P/NP)**

**Professor F. Alberto Grunbaum**

**Tuesday 11:00-12:30, 939 Evans Hall, CCN: 55334**

**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.

Faculty web site:

[http://math.berkeley.edu/index.php?module=mathfacultyman&MATHFACULTY\\_MAN\\_op=sView&MATHFACULTY\\_id=43](http://math.berkeley.edu/index.php?module=mathfacultyman&MATHFACULTY_MAN_op=sView&MATHFACULTY_id=43)



**Mechanical Engineering 24, Section I**  
**Art and Science on Wheels (1 unit, P/NP)**  
**Professor Benson Tongue**  
**Wednesday 12:00- 1:00, 3102 Etcheverry Hall, CCN: 55403**

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.

Faculty web site: <http://www.me.berkeley.edu/faculty/tongue/>

**Media Studies 24, Section I**  
**Keeping Informed in the Digital Age: Reading the New York Times (1 unit, P/NP)**  
**Professor Thomas Goldstein**  
**Wednesday 12:00- 1:00, 385 LeConte Hall, CCN: 56736**

This seminar will explore what keeping informed means in the digital age. It will also offer strategies on how to be well informed. **I look for eager, enthusiastic students who want to know how to figure out what is going on in the world.**

Tom Goldstein, Director of the Media Studies Program, is the former Dean of the journalism schools at Berkeley and Columbia. He was a reporter at the New York Times, the Wall Street Journal and other newspapers.

Faculty web site: <http://journalism.berkeley.edu/faculty/goldstein/>

**Molecular and Cell Biology 90A, Section I**  
**Evolution—Creatures, Not Creation (1 unit, LG)**  
**Professor Jeremy Thorner**  
**Friday 12:00- 1:00, 2066 Valley Life Sciences Building, CCN: 57847**

The advent of molecular biology, recombinant DNA methodology, and the capacity to obtain the complete nucleotide sequence of any genome (from a bacterium to a human) has confirmed the close relationships among all organisms at the genetic and biochemical level, and has confirmed the major tenets of the theory of evolution that were based on the fossil record and other more circumstantial and empirical evidence based on field observations of populations. This course will discuss the unique physical and chemical properties of both water and carbon, and other molecules and elements on which the life forms on our planet are based; the principles of the scientific method and its application to our observations of the natural world; how the term "theory" is applied in science; and the forces that influence organismal survival, adaptation and speciation. Readings will range from Charles Darwin to Steven Jay Gould to James D. Watson. **This course is designed to be taken for a letter grade. Students who elect to take this seminar should enroll under the letter grade option.**

Jeremy Thorner is a Professor in the Division of Biochemistry and Molecular Biology in the Department of Molecular and Cell Biology. He joined the Berkeley faculty on 1 July 1974, and has been here on this

campus ever since. His current research addresses the mechanisms by which cells respond to and decode changes in their extracellular environment and induce the appropriate changes in metabolism, gene expression, growth and proliferation rate, and cell shape that allow the cell to cope properly with the changed circumstances. For more information regarding Professor Thorner, please visit his faculty web page at: <http://mcb.berkeley.edu/faculty/BMB/thornerj.html>

Faculty web site: [http://mcb.berkeley.edu/index.php?option=com\\_mcbfaculty&name=thornerj](http://mcb.berkeley.edu/index.php?option=com_mcbfaculty&name=thornerj)

**Molecular and Cell Biology 90A, Section 2**  
**Sampling the Performing Arts at Berkeley (1 unit, P/NP)**  
**Professor Jack Kirsch**  
**Tuesday 6:00-7:00, 521 Stanley Hall, CCN: 57849**

**Food for Thought dining arrangements and event dates and arrangements will be discussed in class.**

We will attend about four campus events, which will include at least one play, dance, and film. We will meet the week preceding the event for a discussion of the work, and will follow our attendance with a class discussion the following week. There will be some assigned reading. **I would like a mix of students ranging from those who have had little exposure to the subject matter to some who have often attended plays, dance performances, and who enjoy serious or vintage films. This seminar is a Berkeley Arts Seminar. Admission to the on-campus arts events included in this course will be provided at no cost to students. This seminar is part of the Food for Thought Seminar Series.**

Jack F. Kirsch is a professor of the Graduate School. He is associated with both Molecular and Cell Biology and the Chemistry Departments. He joined the campus in 1964, and has had a lifelong interest in the performing arts and literature as well as in science.

Faculty web site: <http://chem.berkeley.edu/faculty/kirsch/index.php>

**Molecular and Cell Biology 90D, Section I**  
**Human Viruses and Diseases (1 unit, P/NP)**  
**Professor P. Robert Beatty and Dr. Simona Zompi**  
**Thursday 11:00-12:00, 2066 Valley Life Sciences Building, CCN: 57856**

**Food for Thought dining arrangements will be discussed in class.**

This seminar will focus on human diseases caused by both RNA and DNA viruses. The course will begin with lectures by the instructor to introduce virology and immunology. The remainder of the course will be student-led discussions of specific viruses. **This seminar is part of the Food for Thought Seminar Seminars. 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 is focussed on dengue virus immunology especially testing drugs and vaccines to protect against severe disease. He teaches immunology classes at Cal in the Department of Molecular and Cell Biology.

Dr. Zompi is an immunologist and hematologist with extensive experience in mouse and human immunology and international work. Prior to joining Cal, she worked at the Pasteur Institute in Paris studying NK cell signaling in response to tumors and infections, then worked as a HIV advisor in several resource-limited countries in Asia and Africa. Her research is now focused on the B cell immune response to dengue virus infection. Dr. Zompi is currently supervising undergraduates in the lab as well as

technicians in Nicaragua and providing on-going technical and logistic support for both laboratory assays and clinical studies.

**Molecular and Cell Biology 90E, Section I**  
**Matter, Mind, Consciousness (1 unit, P/NP)**  
**Senior Lecturer David E. Presti**  
**Wednesday 3:00-4:00, 2070 Valley Life Sciences Building, CCN: 57862**

All that we know as humans comes to us by way of our mental experience: our thoughts, feelings, perceptions, and conscious awareness. The prevailing assumption in contemporary science is that mental experience will ultimately be completely understood in terms of physical processes in the brain and body. However, it is a deep mystery as to how the objective physical movements of ions and molecules in our brains might give rise to subjective experiences like thoughts and feelings. Some argue that the investigation of this mind-body problem is the most interesting question in all of science. We will consider this question from the perspectives of neuroscience, biology, physics, and philosophy. **Students interested in all areas of the arts, humanities, and sciences are encouraged to enroll.**

David Presti has taught neuroscience at UC Berkeley for more than twenty years. For the past several years, he has also been teaching neuroscience to Tibetan monks in India.

Faculty web site: [http://mcb.berkeley.edu/index.php?option=com\\_mcbfaculty&name=prestid](http://mcb.berkeley.edu/index.php?option=com_mcbfaculty&name=prestid)

**Natural Resources 24, Section I**  
**Global Environment Theme House Freshman Seminar (1 unit, P/NP)**  
**Professors Peter Berck and Matthew Potts**  
**Thursday 5:00-6:00, 4301 Foothill 4 - Classroom A, CCN: 61353**

**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 Connections@Cal initiative. 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.

Faculty web site: <http://afs.berkeley.edu/~pberck/>

Matthew D. Potts is an Assistant Professor of Forest Ecosystem Management in the Department of Environmental Science, Policy and Management. He has an interdisciplinary background with training in mathematics, ecology and economics with a BS from the University of Michigan and a PhD from Harvard University. In addition, he has extensive international experience conducting field research in tropical forest throughout the world. His varied research interests include spatial aspects of resource management and epidemiology as well as how human actions, values, and ethics affect biodiversity conservation.

Faculty web site: <http://nature.berkeley.edu/pottslab/>

**Near Eastern Studies 24, Section 1**

**Islam and Imaginative Literature: The Making of a Problematic Relation (1 unit, LG)**

**Professor Muhammad Siddiq**

**Tuesday 3:00-4:00, 180 Barrows Hall, CCN: 61492**

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.

Faculty web site: [http://nes.berkeley.edu/Web\\_Siddiq/Siddiq.html](http://nes.berkeley.edu/Web_Siddiq/Siddiq.html)

**Near Eastern Studies 24, Section 2**

**Ancient Egypt at Berkeley: Egyptian Archaeology in the Hearst Museum (1 unit, LG)**

**Professor Carol Redmount**

**Monday 1:00-2:00, 18 Barrows Hall (first meeting) and Exhibit Gallery in Hearst Museum, CCN: 61495**

**The first seminar meeting will be in 18 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 on display, due to exhibit space constraints. This year we are fortunate because the museum's newest exhibit will highlight Egyptian objects. In this one-credit 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 museum resources and have the opportunity to go behind the scenes in the museum as well as work with the ancient objects on display. **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 digging since. She has worked in the Middle East for over 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.

Faculty web site: [http://nes.berkeley.edu/Web\\_Redmount/Redmount.html](http://nes.berkeley.edu/Web_Redmount/Redmount.html)

**Nutritional Sciences and Toxicology 24, Section I**  
**Science and Culture of American Foods (1 unit, P/NP)**  
**Professor George Chang**  
**Wednesday 11:00- 1:00, Unit Two All Purpose Room, CCN: 64596**

**Food for Thought dining and field trip dates and arrangements will be discussed in class.**

Why did your grandmother rub cornstarch with her finger before dumping it into a hot wok? Or throw pasta against a wall? Or dry peppers in the autumn sun? Or salt food so heavily that you could hardly eat it? The questions address some of the food practices of cultures that make up America. This semester you will explore food preparation in various American sub-cultures. Your references will be books, newspapers, the internet, and best of all, parents and grandparents. As we go on, you will notice that each culture's food practices can be rationalized by the chemistry and microbiology of the foods themselves, in other words, by science, flavored with a dash of economics and a generous serving of tradition. Students will work in groups to make presentations and help prepare field trips. After the formal seminars, we will dine together in the Crossroads Dining Commons. **This seminar is part of the Connections@Cal initiative. This seminar is part of the Food for Thought Seminar Series.**

Professor Chang received an A.B. in chemistry from Princeton and a Ph.D. in biochemistry from Cal. His research is in food microbiology with an emphasis on detecting fecal contamination in water and food. He has been heavily involved in undergraduate affairs, serving on the Undergraduate Affairs Committee, the Committee on Courses, and the Committee for Undergraduate Scholarships and Honors of the Academic Senate. He has also served on ad hoc committees dealing with disabled students and the need to develop a sense of community on each of the UC campuses. His most exciting assignment in the 20th century was to serve on The Chancellor's Commission to Study the University's Responses to a Diversified Student Body. In 2005 Professor Chang became the inaugural professor in Cal's Residential Faculty Program.

Faculty web site: [http://nature.berkeley.edu/site/personnel\\_profile.php?id=95&id\\_url=true](http://nature.berkeley.edu/site/personnel_profile.php?id=95&id_url=true)

**Philosophy 24, Section I**  
**Philosophy and the Meaning of Life (1 unit, P/NP)**  
**Professor R. Jay Wallace**  
**Wednesday 12:00- 1:00, 234 Moses Hall, CCN: 67159**

In this seminar we will take a philosophical look at some ancient questions about the meaning of life. What is it that makes life worth living, from the agent's point of view? What is the relation between morality and the good life? (Can one live well, as an individual, only if one complies with moral requirements? Or does morality sometimes interfere with the conditions for living a meaningful life?) Can life have meaning if there are no objective values? What is the significance of our mortality for the question of life's meaning? Finally, what is the relation of philosophy itself to the meaning of life? Is there any truth in the dictum that the unexamined life is not worth living? Readings will be taken primarily from contemporary philosophical sources.

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 was Chair of the Philosophy Department at Berkeley from 2005–2010. He is on sabbatical leave in academic year 2010–11, with a Fellowship from the John Simon Guggenheim Memorial Foundation.

Faculty web site: <http://philosophy.berkeley.edu/wallace/>

### **Physics 24, Section 1**

#### **Earthquake, Tsunami and Radiation: What Happened in Japan? (1 unit, P/NP)**

**Professor Bob Jacobsen**

**Thursday 12:00-1:00, 458 Evans Hall, CCN: 69452**

**Food for Thought dining arrangements will be discussed in class.**

In spring 2011, a large earthquake occurred off the coast of Japan. This caused a tsunami, which in turn caused a nuclear reactor accident at the Fukushima Daiichi plant. These events had a huge impact on Japan, and were so large that they had effects even in California. We'll explore this entire series of events, with initial emphasis on what really happens in very large earthquakes, how tsunamis are caused and what they do, and what happened in the reactor accidents. As time allows, we'll investigate ways of estimating the risk of similar events in California and the US, and discuss how those risks are being managed. **No special math or physics knowledge is required, but you should be curious about the science and technology underlying the events in Japan. A willingness to ask and even sometimes answer questions would be helpful. 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.

Faculty web site:

[http://physics.berkeley.edu/index.php?option=com\\_dept\\_management&act=people&Itemid=299&task=view&id=363](http://physics.berkeley.edu/index.php?option=com_dept_management&act=people&Itemid=299&task=view&id=363)

### **Physics 24, Section 2**

#### **Coding and Computation in the Brain: Some Interesting Findings and Open Questions in Systems Neuroscience (1 unit, P/NP)**

**Professor Michael DeWeese**

**Wednesday 3:00-4:00, 325 LeConte Hall, CCN: 70293**

In this introduction to systems neuroscience, we will explore some of the basic facts and important milestones in the development of theories of brain function, with an emphasis on the cerebral cortex. We will touch on major discoveries as well as some current areas of active research that are far from resolved. This will not be an exhaustive survey; we will try to focus on topics that have the greatest potential to inform our understanding of the neural mechanisms underlying perception and thought. **This course will provide an informal introduction to systems neuroscience requiring no prior knowledge of biology. Some of the lectures will involve some math and some concepts from physics, but the ideas presented should be understandable to those who are not interested in the mathematical description. Audience participation is strongly encouraged!**

Michael DeWeese received his BA (1988) in physics from the University of California at Santa Cruz and his PhD (1995) in physics from Princeton University. From 1995-1999 he took a computational postdoctoral appointment at the Salk Institute in La Jolla, California, with a fellowship from the Alfred P. Sloan Foundation. He then pursued experimental neuroscience as a postdoctoral researcher at Cold

Spring Harbor Laboratory on Long Island, NY from 2000-2006. In 2007 he was appointed Assistant Professor at the University of California at Berkeley, with a joint appointment shared between the Physics Department and the Helen Wills Neuroscience Institute.

Faculty web site: <http://physics.berkeley.edu/research/faculty/deweese.html>

### **Physics 24, Section 3**

#### **The Big Bang (1 unit, P/NP)**

**Professor Bernard Sadoulet**

**Wednesday 1:00-2:00, 325 LeConte Hall, CCN: 70296**

**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. 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>.

Faculty web site: <http://physics.berkeley.edu/research/faculty/Sadoulet.html>

### **Physics 24, Section 4**

#### **Physical Biology of Cells and Tissues (1 unit, P/NP)**

**Professor Jan Liphardt**

**Tuesday 2:00-3:00, 482 Stanley Hall, CCN: 70299**

Have you ever wondered how living cells crawl, make decisions, and organize themselves into living tissues and organisms, such as you? In the last decade, it has become clear that these kinds of questions cannot be answered by considering only the biology and biochemistry of life, but that concepts from chemistry and physics are essential to understand the full range of behaviors that living cells exhibit. The goal of this seminar is to show you a selection of beautiful problems at the intersection of biology, chemistry, and physics.

Jan Liphardt received a BA from Reed College (1993-96) and a PhD from Cambridge University, UK (Churchill College, 1996-99). After two years as a joint postdoc in the labs of Carlos Bustamante and Nacho Tinoco, Jr. (in the UC Berkeley Physics and Chemistry Depts.), he became the divisional fellow of the Physical Biosciences Division at Lawrence Berkeley Lab. He joined the UC Berkeley Physics faculty in 2004. He is presently an associate professor of Physics at UC Berkeley, the deputy director for science of the LBNL Physical Biosciences Division, and the director and principal investigator of the Bay Area

Physical Sciences-Oncology Center. Jan is a Searle Scholar, a Sloan Research Fellow, and the recipient of the 2007 Mohr Davidow Ventures Innovator's Award.

Faculty web site: <http://www.physics.berkeley.edu/research/liphardt/index.html>

### **Plant and Microbial Biology 24, Section 1**

#### **Encounters with Plants: First-hand Experiences with the Culture, Lore, and History of Plants (1 unit, P/NP)**

**Professor Lewis Feldman**

**Tuesday 11:00-12:00, 104 Genetics and Plant Biology Building, CCN: 70306**

This seminar is meant to provide students the opportunity to explore ways plants have influenced their lives, both personally and in an historical sense. Examples could include unique cultural uses of plants, perhaps as foods or medicines, or in a ceremonial way. As well, you could also use this seminar to explore an aspect of plants in which you may have an interest, and about which you would like to learn more, such as the ways plants figure into art (e.g., Rousseau's Jungle paintings). Plants too have recently been associated with controversial issues, such as genetically engineered foods. We want to use this seminar as a way of expanding our appreciation and understanding of this unique group of organisms. For the first few meetings we will have talks/discussions from individuals whose daily lives involve plants. During this first period we will go on a tour of the campus emphasizing particularly important plantings, especially of trees. We will also include a visit to the University Botanical Garden in Strawberry Canyon. For the remaining weeks each student will present a twenty-minute "seminar" on a plant topic in which he or she has an interest. This seminar should be based on readings and could also involve some personal, first-hand experiences with plants.

Lewis Feldman has been teaching about plants at Berkeley for more than thirty years. He regularly instructs in the plant section of Introductory Biology (Biology 1B). He is a member of the Department of Plant and Microbial Biology, where he conducts research on plant development, with a particular interest in understanding how plants are organized, and how patterns are established. He has also studied how plants detect and respond to gravity.

Faculty web site: <http://epmb.berkeley.edu/facPage/dispFP.php?l=7>

### **Plant and Microbial Biology 24, Section 2**

#### **Extreme Green: Using the UC Botanical Garden to Understand Plant Adaptation to Life on the Edge (1 unit, P/NP)**

**Professor Chelsea Specht**

**Wednesday 1:15-3:15, UC Botanical Garden, CCN: 70309**

**This seminar will meet every other week, beginning Wednesday, August 31, 2011. Students can catch the H shuttle at the Mining Circle at 1:10 p.m. and meet at the entrance of the UC Botanical Garden at 1:15 p.m. The class will end at 3:15 p.m. Students can catch the H shuttle back to the Mining Circle at 3:29 p.m.**

We will meet up at the University of California Botanical Garden every other week to investigate the role of adaptation in shaping plants and their interactions with the environment. Using living collections, we will learn about how plant form can evolve in response to extreme conditions, and how plants use their flowers, roots, stems and even leaves to interact most appropriately with their surroundings. Students will develop small projects investigating their favorite aspects of plant morphology and diversity.

**Students should be willing and able to attend lectures at the Botanical Garden every other week, and should be very excited by the idea of learning more about this amazing resource of living plants. The goal of this seminar is to help you see plants in a whole new light, so be prepared! This seminar is part of the Connections@Cal initiative.**



Dr. Chelsea Specht is a professor in the department of Plant and Microbial Biology, focusing her research on evolution and diversification in plants. She works on the tropical monocot lineage Zingiberales, an order that contains ginger and bananas and the lovely bird-of-paradise flower, and is particularly interested in the genetics underlying the development of novel structures within this group. She obtained her PhD at NYU in a joint program with the New York Botanical Garden, and values living collections for their role in teaching and research. Dr. Specht teaches Plant Morphology for upper division IB, MCB and GPB majors.

Faculty web site: <http://www.plantbiodiversity.org/index.html>

**Portuguese 24, Section I**  
**Introduction to Brazil: Literature and Arts (I unit, P/NP)**  
**Professor Candace Slater**  
**Tuesday 2:00-3:00, 104 Dwinelle Hall, CCN: 86605**

**Film viewing dates and times will be discussed in class.**

The seminar is an introduction to Brazil through literature and a number of the arts—music, film, puppetry, and painting. It focuses on contemporary outgrowths of a long history of inter-relations among the arts that began in the 1920s. It also looks at urban violence and at different forms of protest that have surfaced through the arts. **Students with an interest in Latin America are particularly welcome. No prior knowledge of Brazil is necessary.**

Professor Candace Slater teaches Brazilian literature and culture. She is the author of seven books and various articles and has served as an international advisor to the Brazilian Ministry of Culture, which has various arts programs geared to social transformations in marginal communities including various urban favelas.

Faculty web site: <http://ies.berkeley.edu/psp/people.html>

**Psychology 24, Section I**  
**Squirrels at Berkeley: A Field Course in Animal Cognition (I unit, P/NP)**  
**Professor Lucia Jacobs**  
**Tuesday 3:00-4:30, G75 Tolman Hall, CCN: 75342**

**This seminar will meet for ten weeks, beginning September 20, 2011 and ending November 29, 2011.**

The Berkeley campus is home to some of the smartest animals in the world—and not just people! Here you will find not only the famous Raven and Western Scrub Jay but also the Eastern Fox Squirrel. Tree squirrels are really 'mini-primates': they're long-lived (up to 20 years), big-brained animals with interesting and complex lives. The goal of this seminar is to learn about our neighbors, the fox squirrels, how they live and how they think, using classic observational methods and simple experiments that we'll design ourselves. We'll begin by getting to know them—watching individuals who are marked with unique fur dye patterns so we can track individuals and measure dominance hierarchies and competition. We'll then start observing their complex caching decisions—and we'll study ourselves making the same decisions, in the field (Easter Egg hunt, anyone?)! So about half of the classes will be in the field, studying squirrels and the other half in the classroom, watching films and talking about squirrels and our data. Using our campus as our laboratory, you'll learn how to design and conduct your own experiments in animal cognition—and you'll be able to appreciate a new aspect of the Berkeley experience, our amazing squirrels! **Students who like animals, are interested in squirrels, and don't mind getting muddy and rained on occasionally are encouraged to enroll.**

Lucia Jacobs started studying tree squirrel cognition as a graduate student—her Ph.D. thesis finally answered the question, do squirrels remember where they bury their nuts? Yes! Professor Jacobs and her students have been studying the campus fox squirrels for over a decade, publishing classic studies on their ability to solve ten-foot-tall vertical mazes (they work for peanuts!), how they shake their head to weigh nuts before deciding whether to cache them and how their strategy of encoding a location in space changes through the year. Professor Jacobs and her students also study spatial orientation in voles, kangaroo rats, mice and humans, and causal reasoning in pet dogs and humans.

Faculty web site: <http://jacobs.berkeley.edu>

### **Public Policy 24, Section I**

#### **Race and Ethnicity in the U.S. Census (1 unit, P/NP)**

**Professor Jane Mauldon**

**Tuesday 9:30-11:00, 355 Goldman School of Public Policy , CCN: 77102**

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

Whom do we count in the U.S. Census, and how do we count them? Who's been counted in the past, and why? Come do original research on the U.S. Census back to 1860, and link what you discover to the public policies of then and now.

Professor Jane Mauldon is a demographer whose research focuses on policies that affect children, youth and families in the United States. Her recent research includes a project on changing foster care payment policy in California, and one on how families have combined unemployment benefits with Food Stamps to get by during the recent recession. She teaches courses on poverty, race/ethnicity and public policy, and policies for children. Her varied life experiences have included running a shelter for abused women, teaching on an Indian reservation in Nevada and teaching English in Vientiane, Laos.

Faculty web site: <http://gspp.berkeley.edu/academics/faculty/mauldon.html>

### **Religious Studies 24, Section I**

#### **St. Augustine's Confessions (1 unit, P/NP)**

**Professor Steven Justice**

**Monday 3:00-4:00, 259 Dwinelle Hall, CCN: 77602**

St. Augustine's Confessions, completed around the year 400, is one of the most influential works in the Christian intellectual tradition. It is an autobiography, and at the same time a philosophical speculation about understanding, desire, and the human experience of time. It is intellectually audacious, brain-bendingly brilliant, and surprisingly intimate. But it needs some introduction: on first reading, you do not quite know how to approach it. This seminar is such an introduction: we will learn some of the important background to the work and its intellectual traditions, but mostly will read it, selectively and carefully and slowly, to follow the threads of its thought and to see how it works them together. Reading, thinking, and discussing will be the chief work of this seminar; the expectations for written work are minimal.

Steven Justice has taught at Berkeley for almost twenty-five years; he is Professor of English and former director of Religious Studies. He studies the literary and intellectual history of Christianity, especially in the medieval west.

Faculty web site: [http://english.berkeley.edu/contact/person\\_detail.php?person=43](http://english.berkeley.edu/contact/person_detail.php?person=43)

**Religious Studies 24, Section 2**  
**The Judaism of St. Mark (1 unit, P/NP)**  
**Professor Daniel Boyarin**  
**Tuesday 4:00-5:00, 80 Barrows Hall, CCN: 77693**

In this course we will read the Gospel of Mark closely. Although the reading will be in English, reference will be made to the original Greek (no Greek background required). Special attention will be paid to literary features of the text and its relationship with Hebrew Scriptures as well. A mode of reading will be suggested that ties the text of Mark closely to Judaism. **This seminar is part of the Connections@Cal initiative. This seminar is part of the On the Same Page initiative.**

Daniel Boyarin is the Hermann P. and Sophia Taubman Professor of Talmudic Culture in the Department of Near Eastern Studies. He is also an affiliated member of the Department of Women's Studies, and a member of the core faculty in the minor program in Lesbian, Gay, Bisexual and Transgender Studies. He has published several books, the most recent of which are *Unheroic Conduct: The Rise of Heterosexuality and the Invention of the Jewish Man* and *A Radical Jew: Paul and the Politics of Identity*.

Faculty web site: [http://rhetoric.berkeley.edu/faculty\\_bios/daniel\\_boyarin.html](http://rhetoric.berkeley.edu/faculty_bios/daniel_boyarin.html)

**Rhetoric 24, Section 1**  
**Arguing with Judge Judy: Popular "Logic" on TV Judge Shows (1 unit, LG)**  
**Professor Daniel F. Melia**  
**Tuesday 2:00-3:00, 225 Dwinelle Hall, CCN: 77854**

**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. I am interested in students who are interested in the deployment of logic in everyday life. This is NOT a law course or even a pre-law course. This seminar is part of the Connections@Cal initiative. 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.

Faculty web site: [http://rhetoric.berkeley.edu/faculty\\_bios/daniel\\_melia.html](http://rhetoric.berkeley.edu/faculty_bios/daniel_melia.html)

**Social Welfare 24, Section I  
Children's Rights (1 unit, LG)  
Professor Mary Ann Mason  
Monday 11:00-12:00, 309 Haviland Hall, CCN: 80703**

This course explores the rights of children from fetus through adolescence in criminal court, family courts, schools and public venues. Recent Supreme Court cases include juvenile execution, drug testing in schools, freedom of speech and statutory rape.

Mary Ann Mason is currently Professor and Co-Director, Center, Economics & Family Security at the University of California, Berkeley, School of Law. Mary Ann Mason's scholarship spans children and family law, policy and history. Recent works have focused on working families, in particular the issues faced by the surging numbers of professional women in law, medicine, science and the academic world. Her most recent book (co-authored with her daughter Eve Mason Ekman) is *Mothers on the Fast Track: How a New Generation Can Balance Family and Careers* (Oxford 2007).

Faculty web site: <http://www.law.berkeley.edu/3133.htm>

**South and Southeast Asian Studies 24, Section I  
First Person Plural: Voices Across Cultures (1 unit, LG)  
Professor Penny Edwards  
Monday 2:00-3:00, 175 Dwinelle Hall, CCN: 83211**

**Food for Thought dining arrangements will be discussed in class.**

This seminar examines the role of language and literature in expressing identities across cultures, the place of exile in shaping voice and story, and questions of origins as we go beyond the maxim "lost in translation" to explore what gets found as voices and places are remade. Readings will include poetry by U Sam Ouer (*Sacred Vows*), a novel by Michio Takeyama (*Harp of Burma*), and short stories by Madeleine Thien (*Simple Recipes*) and Nam Le (*The Boat*). We will situate these readings, which journey to and from or transit through, Cambodia, Burma, Indonesia, Japan and Vietnam, against essays on creativity, translation and mobility by writers Michael Chabon (*Imaginary Homelands*) and Siri Hustvedt (*Yonder*). We will also explore the embodiment of voice and story in dance and music, through choreographer Sophiline Shapiro's Cambodia's Khmer Arts Ensemble, and a Javanese Gamelan and dance performance. The seminar will include outings to performances by both artists on October 2 and December 3 and a class visit by dancer Wilis Rengianasih Endah Ekowati. **Success in this course requires a love of story, an interest in elsewhere, an appreciation of the power of voice, and what author Rick Moody defined in a recent *Paris Review* interview as a "delight in language." Students will be required to complete four short written exercises. Participation in class discussions is required, and attendance in all seminars is mandatory. This seminar is part of the Connections@Cal initiative. This seminar is part of the On the Same Page initiative. This seminar is a Berkeley Arts Seminar. Admission to the on-campus arts events included in this course will be provided at no cost to students. This seminar is part of the Food for Thought Seminar Series.**

Penny Edwards is Associate Professor of Southeast Asian Studies. She has written widely on issues of transcultural identity. Her cross-cultural history of colonialism, *Cambodge: The Cultivation of a Nation, 1860-1945* (Hawaii 2007), was awarded the Harry Benda Prize in 2009 for an outstanding new work on Southeast Asia. She is currently completing a book on the life in exile of Prince Myingun Min of Burma. Her other edited works include *Pigments of the Imagination* (with Debjani Ganguly and Jacqueline Lo), *Lost in the Whitewash: Aboriginal Asian Relations from Federation to Reconciliation, 1991-2001* (Canberra, 2003, with Shen Yuan-Fang), and *A Short History of the Buddhist Institute* (Phnom Penh, 2006, with Chheat Sreang et al).

Faculty web site: <http://sseas.berkeley.edu/people/faculty/penny-edwards>

**Spanish 24, Section 1**  
**New Latin American Cinema (1 unit, P/NP)**  
**Professor Natalia Brizuela**  
**Wednesday 1:00-2:00, 108 Wheeler Hall, CCN: 86187**

**Food for Thought dining arrangements will be discussed in class.**

This course will explore the cultural and political significance of film analysis through a close reading of representative Latin American films from the 1960's and 1970's. During this period of social and political revolt, film was deemed an instrument of change, and underwent some of the most radical, challenging and interesting changes in its still short life. We will watch and discuss a number of feature and documentary films produced during this period that deploy the experimental poetics and politics of the "national popular" (and its critique) in Cuban "nuevo cine," Brazilian "cinema novo," and parallel manifestations in Argentina and Bolivia. We will also learn some fundamental film language to help us not only better discuss the films but also understand the radical nature of these films' propositions. **The films to be viewed all have subtitles. No knowledge of Spanish is necessary, although always welcome. This seminar is part of the Food for Thought Seminar Series.**

Natalia Brizuela is Associate Professor of Latin American literatures and cultures. Author of a number of essays on topics ranging from gender and sexuality, photography and State formations, visual culture and poetry, travel narratives, and the essay genre, she has completed a book-length manuscript on photography and the field of cultural-political production in nineteenth-century Brazil as well as an edited volume of critical essays on Argentine avant-garde escritor maldito Osvaldo Lamborghini. Professor Brizuela's areas of research lie at the intersection of Latin American literature and visual technologies/new media. Specializing in Argentine, Brazilian and Chilean literature and culture, she is currently working on articulating relationships between regimes and devices of vision—in particular photography and film—and the field of literary production in the nineteenth and twentieth centuries.

Faculty web site: <http://spanish-portuguese.berkeley.edu/people/faculty.html>

**Spanish 24, Section 2**  
**Talking Funny: Language Variation in Spanish and English Literary Texts (1 unit, LG)**  
**Professor Milton Azevedo**  
**Thursday 11:00-12:00, 125 Dwinelle Hall, CCN: 86190**

For centuries fiction authors have used literary dialects containing nonstandard spelling and regional syntax and vocabulary to represent colloquial and regional speech, foreigners' talk, and mixed languages. Our goal in this seminar is to read passages from some of their works, analyze the ways in which nonstandard speech is represented in writing, and use that analysis as a point of departure for commenting on social and cultural implications of language variation. Spanish and English literary works to be read will include Mark Twain's *Adventures of Huckleberry Finn* and Guillermo Cabrera Infante's *Tres Tristes Tigres*. The seminar 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. **Although the seminar is conducted in English, students must be comfortable with Spanish—they need to understand spoken Spanish and be able to read Spanish with some fluency—about the equivalent of four years of high school Spanish minimum. 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. This seminar is part of the On the Same Page initiative.**

Professor Milton Azevedo received his Ph.D. in Linguistics from Cornell University and has been at UC Berkeley since 1976. He has offered this seminar since spring 1999.

Faculty web site: <http://spanish-portuguese.berkeley.edu/people/faculty.html>

**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: 88042**

**This seminar will meet for eight weeks, beginning September 12, 2011 and ending October 31, 2011.**

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 an original 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. Daisy Bates' *THE LONG SHADOW OF LITTLE ROCK* and Melba Pattillo Beals' *WARRIORS DON'T CRY* will be the required books.

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.

Faculty web site: <http://vision.berkeley.edu/VSP/content/faculty/facprofiles/vansluyters.html>

**Vision Science 24, Section 2**  
**Oh Say Can You See (1 unit, P/NP)**  
**Professor Dennis Levi**  
**Monday 4:00-6:00, 491 Minor Hall, CCN: 66406**

**This seminar will meet every other week throughout the semester, beginning September 12, 2011.**

Visual illusions are tricks that the eye plays on the brain. Illusions can tell us a great deal about the heuristics (rules of thumb) and algorithms (structural rules) that might operate in the visual cortex. This seminar focuses on visual illusions and the eye and brain mechanisms that underlie them. The class will include demonstrations, a field trip to view "natural" illusions on the Berkeley campus, and another to view illusions at the Exploratorium. This seminar will meet approximately every other week throughout the semester, beginning the first week of the semester.

Dennis M. Levi is the Dean of the School of Optometry at the University of California, Berkeley. He received his initial training in Optometry in South Africa, and did advanced training in London and New York. He received the O.D. and Ph.D in Physiological Optics from the University of Houston, where he became a Professor of Optometry and Physiological Optics, and Associate Dean for Research and Graduate Studies in the College of Optometry. In 1996, he became the Cullen Distinguished Professor of Optometry, a lifetime University Chair. Dr. Levi achieved international prominence as a vision scientist for his research in amblyopia, a major cause of vision loss in children. He has been a recipient of the American Academy of Optometry's Garland Clay and Glenn Fry awards as well as an honorary doctorate of science from the State University of New York. He has served as Chair of the National Institutes of Health Visual Sciences B Study Section and a member of the institute's special review committee as well as on the editorial boards of a number of scientific journals.

Faculty web site: <http://levilab.berkeley.edu/>

## **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.

**African American Studies 39D, Section I**  
**Black and Female: Eyeing The Spirit (4 units, LG)**  
**Ms. Cara Stanley**  
**TuTh 2:00-4:00, 106 Wheeler Hall, CCN: 00581**

This course is designed to introduce students to the field of African American Studies with an emphasis on African American feminist thought. The course is organized around three topic areas: Defining Black womanhood, the Black female body, and Black women's relationships and their relationships with others. Examining works from nineteenth and twentieth century African American feminist scholars, we will closely review and critique how Black females are represented in canonical discourse. Utilizing an interdisciplinary approach, this course will investigate how Black women translate societal messages and interrogate what it means to be a Black woman in America. Specifically, students will be asked to examine the confluence of factors that influence a Black woman's perspective, image and understanding of self and her relationship to others. The seminar goal is to create a multi-generational, multi-racial/ethnic community conversation about African American feminist thought. Guest scholars and community leaders will be invited to join the seminar and engage in conversation. On occasion students will be asked to break into small pods of three to interrogate and discuss material. The objectives of the course are for students to understand and be conversant with African American feminist thought, and cognizant of how and why there are particular perceptions and representations associated with the Black female body, and how these perceptions and representations influence relationships with and between Black women. Course attendance is required. This seminar may be used to satisfy the Social and Behavioral Sciences breadth requirement in Letters and Science.

Cara Stanley brings over twenty-five years of experience teaching, training and delivering academic support services in higher education. She directs the development of innovative curriculum and learning models specifically designed for students attending a research one university. Employing peer based learning models that are grounded in the theoretical frameworks of constructivism, critical pedagogy, collaborative and cooperative learning; she strives to enhance and empower the learning experience of budding scholars. In addition to managing the primary academic support service on Cal's campus, Cara is a lecturer in the African American Studies department. Drawing from her interdisciplinary training in Ethnic Studies from the University of California at Berkeley and her Interdisciplinary Social Science graduate training from San Francisco State, Cara creates dynamic courses that support student transformation as learners, scholars and people. She currently teaches courses on African American Student Identity, Black Feminist Thought and Black Female Intellectuals.

**African American Studies 39E, Section I**  
**Investigating Life Journeys: Exploring the Search for Identity, Representation and Authenticity (4 units, LG)**  
**Mr. John Quame Patton**  
**MW 2:00-4:00, 175 Barrows Hall, CCN: 00584**

As students continue at the University of California, Berkeley, the experience presents a path. Along this path, students may encounter obstacles to overcome, social and historical phenomena, information that challenges their views and identities, and ways of thinking that may lead them to interrogate their purpose within the university and also within society. This seminar will introduce students to diverse



epistemological models and practices for navigating the academy and how the cultural environment influences their identity as a budding scholar. To assist students along their own individual journeys throughout the course and time at the university, students will engage in close reading of texts, critical viewing of films and in-depth analysis of various course themes and ideas. When examined from an interdisciplinary approach, each book and film will present distinct cultural representations, identities and practices that simultaneously share common themes that students will be challenged to locate. How may salient themes and points made by the authors and filmmakers be interconnected? In addition, how may these themes connect to current issues occurring in local communities and the larger society? Lastly, how might students connect course material to their own individual life journeys? In addition, students will be exposed to several guest scholars, many of whom attended UC Berkeley. These guests will share their unique stories, describing their journey not only through the university onto their respective career paths but also personal epiphanies and realizations about "self" attained along the way. As a final assignment, each student will be required to write, produce or perform a piece that connects several major concepts from the books and films to his/her own personal journey. This seminar may be used to satisfy the Social and Behavioral Sciences breadth requirement in Letters and Science.

John Quame Patton is working on his doctorate in African Diaspora Studies at the University of California, Berkeley; earned his MA in Language, Literature and Social Studies from the University of Columbia, Teacher's College (1994); and earned his B.A. in African American Studies at the University of California, Berkeley (1992). He is currently working on two books. The first effort is a collaboration with Professor of Sociology Greg Zaire, chronicling the evolution of Hip Hop culture, titled "Not a Decade After, Not a Decade Before." The second effort is a book that will explore the effects of capitalism on Hip Hop music. Quame teaches an introductory seminar to the university that seeks to forge critical thought through the analysis of various themes central to Hip Hop. Quame's professional music career began in 1998 as Superstar Quamallah when he released his first mini album, Don't Call Me John, on ABB Records. Since that time he has worked with and alongside artists such as Defari, Dialated Peoples, Ras Kass, the Heiroglyphics Crew, and current fellow graduate student Taj the Infinite. Having lived in New York, North Carolina, Los Angeles and Oakland, Quame brings a wealth of experience, humor and oral stories to his classes.

**Architecture 39C, Section I**  
**Design in Earthquake Country (3 units, LG)**  
**Professor Mary Comerio**  
**TuTh 9:30- 11:00, 170 Wurster Hall, CCN: 03703**

This seminar introduces seismic design principals to any student interested in how and why buildings fail in earthquakes. Students will learn what causes earthquakes and why some building types are at risk. The course will focus on housing, schools, commercial and industrial buildings in the U.S. and in developing countries to evaluate how different building types perform in earthquakes. The course will also explore techniques for strengthening existing buildings and different approaches to rebuilding after major disasters. This course will help a student to understand the basic structural components of existing buildings and performance-based design principles for new buildings. Case studies from recent earthquakes in Japan, New Zealand, China, Chile, Haiti, Mexico, and other countries will focus attention on the global construction issues and opportunities for improvement. This seminar may be used to satisfy the Social and Behavioral Sciences breadth requirement in Letters and Science.

Mary Comerio is an internationally recognized expert on disaster recovery. She joined the faculty of the Department of Architecture at UC Berkeley in 1978 and served as chair from 2006-09. As an architect, she has designed numerous public and private facilities including market-rate and affordable housing. In the last two decades, her research has focused on the costs and benefits of seismic rehabilitation for existing buildings (particularly housing), post-disaster recovery and reconstruction, and loss modeling. For additional information about Professor Comerio, visit her faculty web page via the Architecture Faculty web page at <http://arch.ced.berkeley.edu/people/faculty>.

Faculty web site:

<http://www.ced.berkeley.edu/ced/people/query.php?id=39&dept=all&title=all&first=Mary&>

**Chicano Studies 39A, Section I**  
**Chicano Civil Rights Movement (1.5 units, P/NP)**  
**Professor Carlos Muñoz Jr.**  
**Tuesday 9:30-11:00, 140 Barrows Hall, CCN: 13118**

The seminar will consist of examining the multifaceted dimensions of the 1960s Chicano Civil Rights Movement via documentary films. **Students who took Chicano Studies 24: Chicano Civil Rights Movement may not take this freshman and sophomore seminar.**

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*.

Faculty web site: <http://ethnicstudies.berkeley.edu/faculty/profile.php?person=21>

**Classics 39I, Section I**  
**The Origins of Rome (4 units, LG)**  
**Professor J. Theodore Peña**  
**TTh 3:30-5:00, 210 Dwinelle Hall, CCN: 14739**

This freshman/sophomore 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 forms of evidence, and the ways in which ideology has influenced what people have believed about the early period 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. This seminar may be used to satisfy the Historical Studies breadth requirement in Letters and Science.

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

Faculty web site: [http://classics.berkeley.edu/people/faculty/person\\_detail.php?person=145](http://classics.berkeley.edu/people/faculty/person_detail.php?person=145)

**Computer Science 39P, Section I**  
**Photographing History in the Making (2 units, P/NP)**  
**Professor Brian Barsky**  
**Tuesday 12:00-2:00, 405 Soda Hall, CCN: 26257**

**On the first day of instruction, please meet Professor Barsky at 12:10 p.m. next to the "Suggestions" board inside the Foothill Dining Commons. At 1:10 p.m., the class will meet in 405 Soda Hall. Additional Food for Thought dining arrangements and field trip dates and arrangements will be discussed in class.**

Responding to this transformational period in the history of the university, this experimental seminar will explore photographic technique and be conducted in the context of the current climate of change and conflict sweeping the university. Political discussion will be an integral part of the seminar. Class participation is essential. Students should be interested in learning about changes that are occurring at the university and in discussing these topics (for example, fiscal issues, priorities, privatization, students' rights), as well about how documentary photographs convey and affect political change. The seminar emphasizes civic engagement and is not intended to be primarily a photography course. Students should have a background in photography. The seminar will explore the roles of documentary photography,

photojournalism, and activist photography as both documenters of and vehicles for change. To hone photographic skills for both film and digital photography, aesthetic, semantic, and technical aspects of photography will be discussed. As time permits, possible photography topics may include quality of light, exposure control, depth of field, composition and patterns, perspective, color science, the human visual system, spatial and color perception, or digital versus chemical processing. Print film assignments are not required but are encouraged; however, darkroom facilities are outside the control of the class. Students are required to take photographs on a weekly basis and these photographs will be critiqued in class as time permits. To complete the course assignments, students must have a camera that enables manual setting of shutter speed, aperture, and ISO as well for focus and that has either interchangeable lenses of different focal lengths or a zoom lens. Although access to both a film camera and a digital camera is preferred, this is by no means necessary. The class includes visits to campus museums, galleries, and archives. In addition to the requirement of completing weekly photographic assignments, 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."

**Enrollment in this seminar is limited to freshmen only. This seminar is not about the subject of computer science even though it is offered through the Computer Science Division. Students from all academic disciplines are welcome. This seminar is part of the Connections@Cal initiative. This seminar is a Berkeley Arts Seminar. Admission to the on-campus arts events included in this course will be provided at no cost to students. This seminar is part of the Food for Thought Seminar Series.**

Brian A. Barsky received his Ph.D. from the University of Utah in Computer Science and joined the UC Berkeley faculty in 1981 where he is Professor of Computer Science and Vision Science, and Affiliate Professor of Optometry at the University of California, Berkeley. He is a member of the Joint Graduate Group in Bioengineering, an interdisciplinary and inter-campus program, between UC Berkeley and UC San Francisco. His research interests include computational photography, contact lens design, computer methods for optometry and ophthalmology, image synthesis, computer aided geometric design and modeling, CAD/CAM/CIM, interactive and realistic three-dimensional computer graphics, computer aided cornea modeling and visualization, and medical imaging.

Faculty web site: <http://www.cs.berkeley.edu/~barsky>

**Computer Science 39Q, Section I**  
**Priorities Under Pressure: Critical Assessment of How the University's Core Mission is Affected by Intercollegiate Athletics (2 units, P/NP)**  
**Professors Brian Barsky, Margaretta Lovell and Laura Nader**  
**Thursday 12:00-2:00, 405 Soda Hall, CCN: 27256**

The core mission of the University of California is "undergraduate education, graduate and professional education, research, and other kinds of public service, which are shaped and bounded by the central pervasive mission of discovering and advancing knowledge." This seminar will focus on how this core mission is affected by Intercollegiate Athletics, at this institution and nationwide. Readings, assignments, and discussions will address a broad range of potential issues related to economics & business models, amateurism & labor, media and the entertainment industry, law, public policy, fandom & "spirit," health & safety, journalism, educational policy, and community. The goal of the seminar is to foster critical thinking concerning issues on this topic of both local and national interest. **Enrollment is limited to freshmen. This class is intended for students who are interested in increasing their awareness of the forces shaping the institution of which they are a part, as well as its broader context. Students from all academic disciplines are welcome. This seminar is not about the subject of computer science even though it is offered through the**

**Computer Science Division. This seminar is part of the Food for Thought Seminar Series.**

Brian A. Barsky received his Ph.D. from the University of Utah in Computer Science and joined the UC Berkeley faculty in 1981 where he is Professor of Computer Science and Vision Science, and Affiliate Professor of Optometry at the University of California, Berkeley. He is a member of the Joint Graduate Group in Bioengineering, an interdisciplinary and inter-campus program, between UC Berkeley and UC San Francisco. His research interests include computational photography, contact lens design, computer methods for optometry and ophthalmology, image synthesis, computer aided geometric design and modeling, CAD/CAM/CIM, interactive and realistic three-dimensional computer graphics, computer aided cornea modeling and visualization, and medical imaging.

Faculty web site: <http://www.cs.berkeley.edu/~barsky>

Margaretta M. Lovell, the Jay D. McEvoy Professor of the History of Art at the University of California, Berkeley, received her Ph.D. in American Studies at Yale and specializes in American and British art, architecture, and design. Her books include prizewinners *Art in a Season of Revolution: Painters, Artisans, and Patrons in Early America*, and *A Visitable Past: Views of Venice by American Artists*. Her interests focus on visual studies, material culture, and the points of intersection between objects and culture from the seventeenth century to the present.

Faculty web site: [http://arthistory.berkeley.edu/Faculty\\_Lovell.html](http://arthistory.berkeley.edu/Faculty_Lovell.html)

Laura Nader is Professor of Anthropology at the University of California, Berkeley since 1960. Her current work focuses on how central dogmas are made and how they work in law, energy, and science. Her recent publications include *Harmony Ideology—Justice and Control in a Zapotec Mountain Village* (1990), *Naked Science—Anthropological Inquiry into Boundaries, Power and Knowledge* (1996), *The Life of the Law* (2002), and, with Ugo Mattei, *Plunder—When the Rule of Law is Illegal*. Her films *To Make the Balance* and *Little Injustices* are widely disseminated. And her latest documentary, *Losing Knowledge—50 Years of Change*, previewed Spring 2011. Nader is a member of the Academy of Arts and Sciences.

Faculty web site: [http://anthropology.berkeley.edu/people/person\\_detail.php?person=24](http://anthropology.berkeley.edu/people/person_detail.php?person=24)

**Earth and Planetary Science 39A, Section I  
Geological Influences in California Society Today (2 units, LG)  
Professor Mark Richards  
MW 4:00-5:00, 265 McCone Hall, CCN: 19012**

**Students must attend the first class where field trip dates and arrangements will be discussed.**

The theme of this course is the influence of geology in California society. The focus is a 4-day field trip to explore California. As a freshman seminar, the class involves close personal interaction between students and 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 trip is preceded by two or three one-hour lectures and two or three video presentations. Students are expected to attend one logistical meeting prior to the trip. The continuous four-day trip will 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. Attendance at initial six class meetings and 4-day field trip is mandatory. **Enrollment is limited to ~30 freshmen. This course is restricted to freshmen only unless the instructor's consent is obtained. If you have any questions**

**regarding this seminar, please contact Catherine Pauling at 642-4068 or [cpauling@berkeley.edu](mailto:cpauling@berkeley.edu).**

Mark Richards is a Professor in the Department of Earth and Planetary Science, and currently Dean of Physical Sciences. His research is focused on understanding the dynamics of planetary interiors, especially Earth, Venus, Mars, and the Moon. His research group carries out large-scale computational simulations, performs laboratory fluid dynamics experiments, and synthesizes a wide variety of information on interior dynamics, including the gravity field, seismology, geochemistry, planetary imaging, and field investigations. Professor Richards also enjoys exploring Earth's surface by climbing, skiing, and white-water rafting whenever possible. For more information regarding Professor Richards, please visit his faculty web page at [http://eps.berkeley.edu/development/view\\_person.php?uid=7517](http://eps.berkeley.edu/development/view_person.php?uid=7517).

Faculty web site: [http://eps.berkeley.edu/development/view\\_person.php?uid=7517](http://eps.berkeley.edu/development/view_person.php?uid=7517)

**Jewish Studies 39C, Section I  
Peoples of the Book? Comparison and Contiguity in Jewish and Romani Diasporas (2 units, LG)**

**Mr. Eli Rosenblatt**

**Thursday 12:00-2:00, 271 Barrows Hall, CCN: 47805**

This course will introduce students to the modern Roma (Gypsy) and Jewish Diasporas. We will examine the discursive uses of Roma and Jewish images in novels, films and poetry and identify the various strategies by which Romani and Jewish poets, writers and filmmakers have represented themselves and each other, both in dialogue with and apart from the larger societies in which they live. We will ask ourselves what makes these texts “Jewish” and/or “Romani,” and explore the meanings of race and ethnicity that inflect our ideas. We will address each group’s origins, migrations and social formations and weave our way through texts written about Roma and Jews by majority writers. **This course will be of interest to any student interested in Jewish Studies, Cultural Studies, Comparative Ethnic Studies, Literature, Cultural History or Film.** This seminar may be used to satisfy the Social and Behavioral Sciences breadth requirement in Letters and Science.

Eli Rosenblatt is a graduate student in the Joint Doctoral Program in Jewish Studies.

**Jewish Studies 39D, Section I  
Prophecy, Science Fiction, and Social Critique (2 units, LG)**

**Ms. Yosefa Rosenberg**

**Tuesday 3:00-5:00, 252 Barrows Hall, CCN: 47845**

What's the difference between fortunetelling and prophecy? How much should we think about the future? Does science fiction ever predict the future? Should it? This course juxtaposes two very different genres that are deeply concerned with the future: Hebrew Prophetic texts from the eighth to sixth century BCE and nineteenth- and twentieth-century texts of science/speculative fiction. In both genres, though, “soothsaying” (whether by Extispicy—the Babylonian science of examining animal livers to tell the future—or our modern-day statistical extrapolations) often takes a back seat to more intriguing and complex journeys out of the real. Both prophecy and science fiction are often used for social critique, as well as for revitalizing deep mythological structures, making philosophical investigations, and pushing social and cultural boundaries and categories. Though science fiction is often considered a new genre, formed in relation to the Industrial Revolution begun in the nineteenth century, this seminar will attempt to trace an alternative genealogy—perhaps science fiction is the bastard child of Biblical prophecy? **I designed this class for students who are interested in literature & text study—for students with majors or intended majors such as English, Comparative Literature, Jewish Studies, or Near Eastern Studies. It is also appropriate for Engineers, Psychology majors etc. who are enthusiastic readers of science fiction and would like to broaden their critical horizons. Students do not need a background in Bible or Jewish Studies.**

**Though it is listed under Jewish Studies, the point of departure is the Hebrew Bible in conversation with science fiction.** This seminar may be used to satisfy the Arts and Literature or Philosophy and Values breadth requirement in Letters and Science.

Yosefa Raz is doctoral candidate in the GTU-UC Berkeley Joint Doctoral Program in Jewish Studies. She is completing her dissertation on prophetic weakness in the Hebrew Bible and its post-enlightenment reception.

### **Legal Studies 39D, Section I**

#### **Current Political and Moral Conflicts and the U.S. Constitution (2 units, LG)**

**Mr. Alan Pomerantz**

**Thursday 2:00-4:00, 203 Wheeler Hall, CCN: 51506**

The debate about morals has moved steadily into the realm of the Supreme Court, but people differ on what exactly the role of the Court should be. Some have strongly argued that the Court's interpretation and application of the Constitution have adversely affected our fundamental rights and usurped powers from other branches of government. This position claims the Court has created an "Imperial Judiciary." Others argue as strongly that the Court has acted properly to protect fundamental freedoms and individual rights in the face of unprecedented political and governmental efforts to limit them. This position claims the Court has, in fact, fulfilled the role envisioned for the Court by the Constitution. This seminar will follow the Socratic method in examining moral and political issues that have a constitutional basis and the Court's participation in the debate on topics such as gay rights (including gay marriage), abortion, privacy, capital punishment, college speech codes, "hate" speech, and racial and ethnic profiling. We will read Supreme Court cases, as well as political and legal commentary from across the political spectrum, and consider not only the opinions of the Justices, but also why they hold those opinions. Students will be asked to develop and apply critical thinking skills and are expected to develop and support their own views and opinions regarding the relevant topics. **This seminar is part of the Connections@Cal initiative.** This seminar may be used to satisfy the Philosophy and Values or Social and Behavioral Sciences breadth requirement in Letters and Science.

Alan J. Pomerantz, Esq., is a practicing lawyer and Senior Counsel of Orrick, Herrington & Sutcliffe, a major international law firm. A graduate of the NYU School of Law, he also studied in Chile and received an advanced legal degree from the University of Amsterdam (Netherlands). He has lectured and taught widely, including at the NYU School of Law, NYU College of Arts and Science, the University of Amsterdam, Columbia Graduate School, and the University of Concepcion (Chile). He has published numerous articles and contributed to several treatises on legal topics. Mr. Pomerantz is recognized by several peer publications as one of the world's leading lawyers. Mr. Pomerantz has participated in important and controversial matters affecting individual rights, including death penalty appeals, right of public artistic expression, right of privacy for acts of consenting adults, and numerous free speech cases.

### **Materials Science and Engineering 39A, Section I**

#### **The Berkeley Experience (1.5 units, P/NP)**

**Professor Kal Sastry**

**Thursday 4:00-5:30, 75 Evans Hall, CCN: 53205**

**Please note that the class is regularly scheduled for one and one-half hours each week; however, it may be extended two hours on two or three field trip days. Accordingly, we may reduce the number of weekly meetings to adjust the total seminar hours to 21 in the semester. This first seminar meeting date is TBA.**

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 resource rich. At times, Berkeley may feel impersonal, even alienating for new freshman as well as for

returning sophomore students, but increased awareness and prior planning will result in the greatest of Berkeley experience. This year the Berkeley Experience seminar is extended to sophomores so they can share their first-year experiences with freshmen and work together for a mutually enriching experience of getting the best and most out of Berkeley and the Bay Area. To this end, the seminar activities will be highly action oriented and carried out at the individual, small group or class level and consist of 1) Workshop-style classroom sessions sharing mutual thoughts, priorities, and experiences; 2) Field trips to professors' offices, campus events, laboratories, libraries, local restaurants, and local area sites; and 3) Development of 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 enjoys working with freshmen and sophomores and loves 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."

**Native American Studies 90, Section I**  
**Myth, Memory, and History: Understanding Native America (4 units, LG)**  
**Visiting Lecturer Diane Pearson**  
**MWF 11:00-12:00, 104 Barrows Hall, CCN: 61171**

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.

Faculty web site: <http://ethnicstudies.berkeley.edu/faculty/profile.php?person=70>

**Psychology 39E, Section I**  
**The Psychology of Art (2 units, LG)**  
**Professor Art Shimamura**  
**Monday 2:00-4:00, 3105 Tolman Hall, CCN: 73891**

What happens when we experience a work of art? What does it mean to have an aesthetic reaction? Can we derive general properties of such experiences or is there no accounting for taste? Philosophers, psychologists, and recently neuroscientists have sought answers to these questions. This course examines the ways we experience the visual arts. In particular, we will discuss how aspects of psychology—such as perceiving, knowing, and feeling—help us understand works of art and their aesthetic appeal. **No background experience in psychology, biology, or art is required.** This seminar may be used to satisfy the Arts and Literature breadth requirement in Letters and Science.

Arthur P. Shimamura is Professor of Psychology and faculty member of the Helen Wills Neuroscience Institute. He uses brain imaging techniques and analyses of brain-injured patients to explore the biological underpinnings of human memory and cognition. He is also interested in explorations of how we experience art. He is recipient of the Distinguished Teaching Award from the UC Berkeley Division of Social Sciences, has been Scientific Advisor for the San Francisco Exploratorium Science Museum, and was awarded a Guggenheim fellowship to examine art, mind, and brain.

Faculty web site: <http://psychology.berkeley.edu/faculty/profiles/ashimamura.html>

**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 Avenue - Room L45, 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.

Faculty web site: <http://sseas.berkeley.edu/people/faculty/kausalya-hart>



## 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 I**

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

**Professor Rosemary Joyce**

**Tuesday 1:00-2:00, 225 I College Avenue, Room 101, CCN: 02455**

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. This seminar is part of the Connections@Cal initiative.**

Rosemary Joyce has participated in archaeological field research in northern Honduras since 1977, and co-directed a project investigating the earliest evidence of village life in that country where she recovered evidence of chocolate dating to 1150 BC. The sites she has worked at span the entire known sequence of occupation in Honduras, from the Early Formative (before 1500 BCE) to the twentieth century. Since 1992, she has coordinated her field work with the cultural resources management goals of the Honduran Institute of Anthropology and History, working in the lower Uluva Valley to record information about sites being destroyed for economic development. Her publications include many books, the most recent "Ancient Bodies, Ancient Lives" (2008, Thames and Hudson), as well as dozens of journal articles and book chapters on topics including gender, sexuality, pottery, burials, and of course, chocolate.

Faculty web site: <http://berkeley.academia.edu/RosemaryJoyce/About>

### **Architecture 84, Section I**

#### **3D Modeling, Rendering and Animation (1 unit, P/NP)**

**Professor Ronald Rael**

**Monday 11:00-12:00, 104 Wurster Hall, CCN: 03705**

This seminar will be an introduction to 3D modeling, rendering and animation using the software application, modo. The software is described as the next evolution of 3D modeling, painting, sculpting and rendering in a single package and will be a valuable new tool to a design arsenal. **A laptop with modo installed will be necessary to participate in the course. modo is available with an**

**educational discount at [www.luxology.com](http://www.luxology.com). This seminar is part of the Connections@Cal initiative.**

Ronald Rael is an architect, author, and Assistant Professor at the University of California, Berkeley. Rael's research examines the convergence of digital, industrial, and non-industrial approaches to making architecture.

Faculty web site:

<http://www.ced.berkeley.edu/ced/people/query.php?id=416&dept=all&title=all&first=Ronald&last=Rael&ce>

**Astronomy 84, Section I**  
**Space, Time, and the Cosmos (1 unit, P/NP)**  
**Professor Alex Filippenko**  
**Monday 11:00-12:00, B5 Hearst Annex, CCN: 06052**

We will consider the nature of space and time, especially in the context of our understanding of the overall properties of the Universe. The major topics from the following best-selling book will be discussed: "A Briefer History of Time," by Stephen Hawking. Our journey will take us through the basics of the two pillars of modern physics: quantum mechanics and Einstein's general theory of relativity. We will also explore string theory, which attempts to unify these two great fields by postulating the existence of many hidden dimensions in which packages of energy vibrate. **Though the seminar is intended for non-science majors, the discussion will be held at a fairly high level; thus, students must have already successfully completed at least one of the following courses: Astronomy 10 (or C10), L&S C70U, Astronomy 7A, or Astronomy 7B.**

Alex Filippenko received his B.A. (1979, Physics) from UC Santa Barbara and his Ph.D. (1984, Astronomy) from the California Institute of Technology. He joined the UC Berkeley faculty in 1986. An observational astronomer who makes frequent use of the Hubble Space Telescope, the Keck 10-meter telescopes, and Lick Observatory, he engages in research on exploding stars, active galaxies, black holes, gamma-ray bursts, and observational cosmology. Having written over 650 articles on his research, Filippenko has received numerous awards and is one of the world's most highly cited astronomers; he is also an elected member of the National Academy of Sciences. His group's discovery that the expansion of the Universe is accelerating with time was named the "Top Science Breakthrough of 1998" by the editors of Science magazine. A dedicated and enthusiastic teacher, he has won the campus Distinguished Teaching Award and has been voted "Best Professor" seven times in the Daily Cal's annual "Best of Berkeley" survey. He was also named the 2006 CASE/Carnegie National Professor of the Year among doctoral and research institutions, and he won the Astronomical Society of the Pacific's 2010 Emmons Award for undergraduate teaching of astronomy. Besides being an avid tennis player, skier, and hiker, he enjoys world travel and is addicted to observing total solar eclipses (11 out of 11 attempts, so far).

Faculty web site: <http://astro.berkeley.edu/people/faculty/filippenko.html>

**English 84, Section I**  
**High Culture, Low Culture: Postmodernism and the Films of the Coen Brothers (2 units, P/NP)**  
**Professor Julia Bader**  
**Thursday 2:00-5:00, 300 Wheeler Hall, CCN: 28151**

We will concentrate on the high and low cultural elements in the noir comedies of the Coen brothers, discussing their use of Hollywood genres, parodies of classic conventions, and representation of arbitrariness. We will also read some fiction and attend events at the Pacific Film Archive and Cal Performances. **This seminar is part of the Connections@Cal initiative. This seminar is a Berkeley Arts Seminar. Admission to the on-campus arts events included in this**

**course will be provided at no cost to students.** 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.

Faculty web site: [http://english.berkeley.edu/contact/person\\_detail.php?person=11](http://english.berkeley.edu/contact/person_detail.php?person=11)

**English 84, Section 2**  
**Know Thyself (2 units, P/NP)**  
**Professor John Coolidge**  
**Monday 2:00-4:00, 108 Wheeler Hall, CCN: 28153**

This simple, two-word admonition carved over the entrance to the ancient temple at Delphi might be called the founding oracle of western humanism. The phrase itself is alive and well today, as a Google search will amply confirm, but what does it mean? We will read and discuss texts illustrating the remarkable variety of ways in which the oracle has been interpreted in the past, beginning with Socrates' equally bemusing declaration that "The unexamined life is not livable for a human being," or words to that effect. I envision a kind of ongoing "focus group" in which we try to ascertain which "takes" on the oracle resonate with us today and why. **This course is intended to appeal especially to students desirous of getting in on the intellectual conversation of our time and curious as to its cultural antecedents. This seminar is part of the Connections@Cal initiative.** This seminar may be used to satisfy the Arts and Literature breadth requirement in Letters and Science.

John S. Coolidge is an Emeritus Professor of seventeenth-century English literature. He has written articles on Shakespeare, Milton, and Marvell and a book on Puritanism and the Bible.

**History 84, Section 1**  
**Concept, Image, and Symbol: Movies as Historical Documents for the Study of the United States, 1920-1945 (2 units, P/NP)**  
**Professor Samuel Haber**  
**Wednesday 2:00-5:00, 214 Haviland Hall, CCN: 39213**

**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. Participation in "Food for Thought" voluntary dinner meetings will be discussed in class.**

We will be studying the history of this country over a brief period of twenty-five years. Yet during those years the nation entered into and responded to three drastically different eras—those of prosperity, depression, and war. Movies provide invaluable evidence of what it was like to be alive in these eras. Movies have great advantages and great 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 seminar may be used to satisfy the Historical Studies or Social and Behavioral Sciences breadth requirement in Letters and Science.

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

Faculty web site: <http://history.berkeley.edu/faculty/Haber/>

**Integrative Biology 84, Section I**  
**Understanding Species' Responses to Climate Change (1 unit, P/NP)**  
**Professor Craig Moritz**  
**Tuesday 1:00-2:00, 4110 Valley Life Sciences Building, CCN: 43029**

**Field trip arrangements will be discussed in class.**

As we enter an era of rapid, human-caused climate change, it is more important than ever that we understand how species responded to past, rapid alterations in climate. Only then can we make secure predictions about the future and identify which components of biodiversity are resilient vs. vulnerable. This seminar, run in the format of a student-led reading and discussion group, will examine evidence of responses to climate change over time scales from 1000's to 10's of years and discuss implications for future impacts and how to minimize these. As a special treat, the group will tour UCB's famous Museum of Vertebrate Zoology and see first hand ongoing research in climate-change biology. **The course is open to all interested students, regardless of background in biology**

Craig Moritz is Director of the Museum of Vertebrate Zoology and Professor in Integrative Biology. He teaches Bio1B (Evolution) in Spring semesters and Molecular Ecology. His research, involving lots of wonderful undergrads as well as grad students & postdocs, focuses on response of species to past climate change at multiple scales. This combines molecular analyses with spatial modelling of rainforest communities over 1000's of years and also examines changes in small mammal and bird populations in California over the last 100 years.

Faculty web site: <http://ib.berkeley.edu/labs/moritz/>

**Landscape Architecture 84, Section I**  
**The River in Film (2 units, P/NP)**  
**Professor G. Mathias Kondolf**  
**Tuesday 3:30-5:00 and 7:00-10:00, 220 Stephens Hall - Geballe Room in the Townsend Center, CCN: 48523**

**The format of this seminar includes lecture, film viewing, and seminar discussion. Because of the time required to screen films, the course meets for a longer time period than most sophomore seminars, but only ten weeks during the term. This seminar will begin on Tuesday, September 6, 2011; the nine remaining meeting dates are TBA. The lecture and discussion will be in the afternoon from 3:30- 5:00 p.m. The film viewing will be in the evening from 7:00 - 10:00 p.m.; the ending time will vary based on film length. There may also be additional screenings at the Pacific Film Archive.**

Rivers have always appealed to artists, inspired by the river's form, movement, and intimate relation with human settlement. The river was a frequent subject of the landscape painters touring the American hinterland of the nineteenth century, whose art served as precursor to the art of film. With the emergence of film in the early twentieth century, filmmakers were quick to capture the river in its beauty and scale, as a scenic backdrop but often with additional symbolic importance. This class will explore the great symbolic value of rivers by viewing classic (and not-so-classic) films dealing with rivers, floods, and

dams. Themes and topics involving rivers range from its transformative and cleansing properties, to possible roles as timekeeper, lifegiver, indicator of the authentic and "natural," to the spiritual, or its important role in often defying (or conforming to?) modernity. Course requirements are viewing films, reading, participating in discussion, and a short (two-page) research paper requiring use of the PFA library. **Sophomores enrolled in the class are admitted free to the required PFA screenings.**

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.

Faculty web site: <http://landscape.ced.berkeley.edu/~kondolf/>

**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, 4301 Foothill 4 - Classroom A, CCN: 61356**

**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 Connections@Cal initiative. This seminar is part of the Food for Thought Seminar Series.**

Matthew D. Potts is an Assistant Professor of Forest Ecosystem Management in the Department of Environmental Science, Policy and Management. He has an interdisciplinary background with training in mathematics, ecology and economics with a BS from the University of Michigan and a PhD from Harvard University. In addition, he has extensive international experience conducting field research in tropical forest throughout the world. His varied research interests include spatial aspects of resource management and epidemiology as well as how human actions, values, and ethics affect biodiversity conservation.

Faculty web site: <http://nature.berkeley.edu/pottslab/>

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.

Faculty web site: <http://afs.berkeley.edu/~pberck/>

**South and Southeast Asian Studies 84, Section I**  
**Contemporary Southeast Asian Society and Culture through Film (2 units, LG)**

**Mr. Frank Smith, Dr. Maria Josephine Barrios-Leblanc and Mr. Bac Tran  
Friday 4:00-6:00, 263 Dwinelle Hall, CCN: 83235**

**This seminar will meet for thirteen weeks, beginning August 26, 2011 and ending December 2, 2011.**

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. This seminar is part of the Connections@Cal initiative.** This seminar may be used to satisfy the Social and Behavioral Sciences or International Studies breadth requirement in Letters and Science.

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.

Faculty web site: <http://sseas.berkeley.edu/people/faculty/frank-smith>

Joi Barrios has a Ph.D. in Filipino and Philippine Literature. She is the author of five books, among them the poetry collection *To Be a Woman is to Live at a Time of War* and her research, *From the Theater Wings: Grounding and Flight of Filipino Women Playwrights*.

Faculty web site: <http://sseas.berkeley.edu/people/faculty/joi-barrrios-leblanc>

Bac Hoai Tran has a Master's degree in English with a concentration in Linguistics from San Francisco State University. He is the author of the textbook *Conversational Vietnamese* (2008), and is a coauthor of the *Vietnamese Practical Dictionary* (2010) and *Living with English* (2001). 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).

Faculty web site: <http://sseas.berkeley.edu/people/faculty/bac-hoai-tran>

**Vision Science 84, Section I  
Comparative Eye Design: Lessons to be Learnt from Comparing Eyes of Different Animals (I unit, P/NP)  
Professor Christine Wildsoet  
Thursday 4:00-6:00, 394 Minor Hall, CCN: 66409**

**This seminar will meet every other week and will begin the first week of the semester. Field trip arrangements will be discussed in class.**

This seminar will review and compare the structures of various components of the eye as well as 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 and one excursion are planned. **Students with clinical career plans involving eyes or vision research careers are likely to be interested in this seminar.**

Professor Wildsoet is on the 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 the her lab is myopia (nearsightedness), 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 the opportunity to work with a range of animals and birds to address other questions related to eye design.

Faculty web site: <http://vision.berkeley.edu/wildsoet/>

**Vision Science 84, Section 2**  
**Current Topics in US Healthcare (1 unit, P/NP)**  
**Professor Kenneth Polse**  
**Thursday 10:00-12:00, 490F Minor Hall, CCN: 66412**

**This seminar will meet for seven weeks, beginning October 6, 2011 and ending November 17, 2011.**

This seminar examines some of the major topics/controversies in US healthcare delivery. The aim of this seminar is to heighten our awareness of the issues in today's health care. Typically, the class will review a news story, media presentation, or editorial that will serve as the beginning for class discussion/debate. Some of the topics will include single payer vs. 3rd party medical coverage; factors driving the cost of medical care, strategies to control medical costs; the role of insurance companies, pharmaceutical and device manufactures, hospitals, physician groups and government in developing health care policy; healthy living; how to evaluate products/procedures; preventative measures; end of life issues; nursing elder care; and defensive medicine. **Enrollment is limited to ten sophomores. This seminar would be of interest to most students and in particular those who are considering a career in the health care field (professional service, public health, planning, administration).**

From 1972-2003 Professor Polse served as faculty member, Clinic Director, and Associate Dean in the School of Optometry, University of California, Berkeley (UCB). Recently retired, Dr. Polse is currently Professor of Graduate Studies at UCB. His research developed from years of clinical experience, convincing him that it is the clinician's astute observations that often drive the research agenda. He also believes that discovery and clinical implementation require close collaborative efforts between basic and clinical scientists, a principle that has guided his research career. Some of Professor Polse's professional services and honors include President, International Society for Contact Lens Research; memberships on the AOA Council on Research and the National Advisory Eye Council (NIH); a Senior Fulbright Fellowship; AAO Garland Clay Award; AAO Max Shapero Lecture; BCLA Principal Keynote Speaker; UCB Sarver Endowed Chair; and Montague Ruben Medal. Since 1974, Professor Polse has had many students, residents, and post-doctoral fellows participate in his laboratory. He has received continuous research support from NIH and Industry for thirty years, resulting in many successful studies (including two NIH-sponsored randomized clinical trials) and over 140 papers published in peer-reviewed journals.

Faculty web site: <http://vision.berkeley.edu/polse/>

**Vision Science 84, Section 3**  
**Introduction to Visual Impairment (1 unit, P/NP)**  
**Professor Susana Chung**  
**Wednesday 4:00-6:00, 394 Minor Hall, CCN: 66414**

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

This is an introductory course on visual impairment. When a person's vision cannot be corrected to the standard 20/20 with glasses or contact lenses due to disorders of the eye, he or she may be functionally limited by the reduced vision. This is referred to as "visual impairment." In this course, we will discuss various causes that can lead to a visual impairment, what are the difficulties facing people with visual impairment and what can be done to help these people lead a successful life.

Professor Susana Chung is an Associate Professor of Optometry and Vision Science at the University of California, Berkeley. She is an optometrist as well as a researcher specializing in the field of low-vision rehabilitation.

Faculty web site: <http://vision.berkeley.edu/VSP/content/faculty/facprofiles/chung.html>