



**FALL 2012**

**<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 December 11, 2012.

## 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, 54 Barrows Hall, CCN: 00557**

**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 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://africam.berkeley.edu/faculty/mchombo.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: 14002**

**The first class meeting will be held on Wednesday, September 12, 2012 from 6:00 - 7:30 p.m. in 212 O'Brien Hall. The second class meeting will be held on Saturday, September 15, 2012 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 22, 2012 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 Tuesday, September 25, 2012 from 6:00 - 7:30 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 and WHO report that 4,000 to 6,000 children under the age of five die each day in the developing world from the lack of clean water and sanitation. This is equivalent to twelve 747 jet passenger planes crashing each day of the year. However, a simple cheap technology is available to mitigate this problem, which is the biosand water filter. Biosand water filters have recently become widely used in the developing world as a means of purifying drinking water for individual household use. Since 1999, approximately 80,000 biosand filters have been installed around the world, serving 500,000 people. They provide a cheap and effective means of removing turbidity and pathogens, i.e., viruses, bacteria and worms, from polluted water. Furthermore, biosand filters can be readily made from local sources of sand and gravel. The bio layer, one of the main combatants of pollutants, is located at the top of the sand column, and takes up to a few weeks to grow, feeding off the influent initially poured through the sand and gravel column. The outer container can be made from plastic or concrete, materials that are commonly available in the developing world. The pipes and connections are usually made of one-inch PVC pipes. The purpose of this class will be to build and test four different biosand filter containers. The class of sixteen freshman students will be divided into four teams of four students per team. Each team will build and test its own unique biosand filter. **Enrollment is limited to sixteen freshmen interested in environmental issues.**

Dr. John Dracup is a Professor of the Graduate School in the Department of Civil & Environmental Engineering. 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 was a Senior Fulbright Scholar to Australia and 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 9:00- 10:00, 544 Davis Hall, CCN: 14588**

This seminar discusses skyscrapers first: how they are designed and constructed; what motivates us to build them; and who designs and constructs them. The seminar will also include discussions 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 3,000 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 and the Quest for Home, Fulfillment, Happiness and Meaning (1 unit, P/NP)**

**Professor Anthony Bulloch**

**Tuesday 2:00-3:00, 210 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 and Assistant Dean in the Office of Undergraduate Advising in the College of Letters & Science at UC Berkeley. He was born and brought up in London, England. He studied Classics at the University of Cambridge, England (B.A., M.A., Ph.D.) and was a student also at the British School at Rome and the University of Freiburg im Breisgau, Germany. He taught in the Faculty of Classics, Cambridge, where he was also Fellow and Dean of King's College, before coming to UC Berkeley. Publications include work in the fields of Greek poetry, language, metrics, religion and myth. He is currently writing a new textbook on Greek Mythology, to be published by Thames and Hudson (London), and working on another on ancient Greek Cults and Festivals.

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)

### **Classics 24, Section 2**

#### **Ancient Greek Tragedy in Modern Performance (1 unit, P/NP)**

**Professor Mark Griffith**

**Wednesday 3:00-4:00, 127 Dwinelle Hall, CCN: 14736**

We will read four or five Classical Greek tragedies in English, and watch video recordings of some modern productions of them. Discussion will focus on differences of acting style, scenic and costume design, and performance space, as well as the use of music and dance, in comparing various approaches that modern directors have taken to adapting these plays to a contemporary context. We will also pay particular attention to the building of the Hearst Greek Theatre at UC Berkeley in 1903, and to the various classical plays that have been performed in it over the years. **This seminar is part of the On the Same Page initiative.**

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

Faculty web site: [http://classics.berkeley.edu/people/faculty/person\\_detail.php?person=13](http://classics.berkeley.edu/people/faculty/person_detail.php?person=13)

**Classics 24, Section 3**

**Monsters of the Ancient World (1 unit, LG)**

**Professor Trevor Murphy**

**Tuesday 11:00-12:00, 201 Wheeler Hall, CCN: 14739**

This seminar will examine monsters in ancient Greek and Roman culture in their roles as guardians of treasure, portents, ancestors, markers of the edges of the world, and messengers from the gods or from one's inner self. Texts from the ancient Near East, the Bible, and the Middle Ages will be read as comparative evidence, as well as some theoretical interpretations of monsters. Requirements: There will be 30-35 pages of reading per week. Each week, two students will be responsible for introducing one of the readings for that class with a short (ten-minute) collaborative oral presentation.

Trevor M. Murphy is a Professor of Classics. His special interests include Roman prose authors and ethnography.

Faculty web site: [http://classics.berkeley.edu/people/faculty/person\\_detail.php?person=32](http://classics.berkeley.edu/people/faculty/person_detail.php?person=32)

**Comparative Literature 24, Section I**

**Bob Dylan and Arthur Rimbaud: Poetry and the Senses (1 unit, P/NP)**

**Professor Timothy Hampton**

**Thursday 1:00-2:30, 4226 Dwinelle Hall, CCN: 17272**

**This seminar will meet for ten weeks, beginning September 6, 2012 and ending November 8, 2012.**

Bob Dylan has named the nineteenth-century French poet Arthur Rimbaud as one of his major sources of inspiration. In this seminar we will explore the connections between these two important writers. First we will read carefully through the poetry and letters of Rimbaud, one of the most original and powerful of modern poets. We will try to get a sense of what makes Rimbaud's poetry so influential, not only for Dylan, but for a whole host of modern artists. Then we will study the intersection between Rimbaud's work and Dylan's. Central to our concerns will be the role of the senses in poetic creation, as well as, of course, the relationship between lyric poetry and song. Students will gain familiarity with the writing of a major modern poet and have the chance to work closely on issues of poetic language and versification. Students will be expected to participate actively in the discussion and write two short papers. The book for this seminar has been ordered at University Press Books, 2430 Bancroft Way. **The course will be in English. No knowledge of French is required.**

Professor Hampton works on Renaissance and early modern European culture, in both English and the Romance languages. His research and teaching involve the relationship between politics and culture, and focus on such issues as the ideology of literary genre, the literary construction of nationhood, and the rhetoric of historiography. His most recent book is "Fictions of Embassy: Literature and Diplomacy in Early Modern Europe." In 2009, Professor Hampton received the Divisional Distinguished Teaching Award for Senate Faculty Members. Professor Hampton is currently the Chair for the Department of French.

Faculty web site: [http://complit.berkeley.edu/?page\\_id=7585](http://complit.berkeley.edu/?page_id=7585)

**Comparative Literature 24, Section 2**  
**Reading and Reciting Great Poems in English (1 unit, P/NP)**  
**Lecturer Stephen Tollefson**  
**Tuesday 4:00-5:00, 202 Wheeler Hall, CCN: 17275**

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.

**Education 24, Section 1**  
**Behind the Scenes at Berkeley: Perspectives on Public Higher Education (1 unit, P/NP)**  
**Dr. Beata FitzPatrick**  
**Wednesday 12:00-1:00, 205 Wheeler Hall, CCN: 23502**

What does it mean to be an undergraduate at one of the world’s great public research and teaching universities? Are you curious about how university leaders 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? Learn how these and other decisions that affect your educational experience are made at Berkeley. This seminar will engage in readings and lively discussion to help deepen your understanding of some of the current issues and complex challenges confronting public higher education and how we see Berkeley now and might imagine it in the future. **This seminar is part of the On the Same Page initiative.**

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 25 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 24, Section 1**  
**Gadgets Electrical Engineers Make (1 unit, P/NP)**  
**Professor Jeffrey Bokor**  
**Wednesday 11:00-12:00, 125 Cory Hall, CCN: 25054**

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/>

**English 24, Section 1**  
**Reading Art Spiegelman's Maus (I unit, P/NP)**  
**Professor Hertha D. Sweet Wong**  
**Wednesday 3:00-5:00, 275 Kroeber Hall, CCN: 28045**

**This seminar will meet for seven weeks on the following dates: August 29, September 5, September 12, September 19, September 26, October 3, and October 10, 2012.**

Art Spiegelman has been called “one of our era’s foremost comics artists” and “perhaps the single most important comic creator working within the field.” In this seminar we will devote ourselves to a close reading of his Pulitzer Prize-winning graphic memoir, *Maus*, informed by a small dose of comics criticism. The required texts for this seminar are 1) *Maus*. Volume I: A Survivor’s Tale, My Father Bleeds History; 2) *Maus*. Volume II: A Survivor’s Tale, And Here My Troubles Began; and 3) *Understanding Comics: The Invisible Art*. Students should be prepared for active involvement and at least six pages of informal writing.

Hertha D. Sweet Wong is Associate Professor in the Department of English and Chair of the Department of Art Practice. She is the author of books and essays on Native American literature, autobiography, and visual culture. Currently, she is completing a book tentatively entitled *Visualizing Identity: The Pictorial Turn in Late 20th-Century American Autobiography* that examines late 20th-century American subjectivity as it is represented in visual-verbal forms: story quilts, artists' books, comic books, experimental autobiographies, word paintings, and photo-autobiographies.

Faculty web site: <http://english.berkeley.edu/profiles/75>

**English 24, Section 2**  
**Margaret Atwood's Dystopian Fictions (I unit, P/NP)**  
**Professor Katherine Snyder**  
**Tuesday 10:00-11:00, 205 Wheeler Hall, CCN: 28787**

Canadian author and Booker Prize winner Margaret Atwood has published more than 40 books of poetry, criticism and nonfiction prose, and narrative fiction over the course of a writing career that extends from the 1960s to the present. In this seminar, we will read her most well known novel, *The Handmaid's Tale* (1985), as well as her two most recent ones, *Oryx and Crake* (2003) and *The Year of the Flood* (2009). In



each of these “near future” fictions, Atwood follows contemporary political, social, and environmental trends to their potential dystopian conclusions, asking questions such as these: What if the U.S. were controlled by religious fundamentalists or by bioengineering corporations? What might be the possibilities for resistance in this brave new world? What if environmental degradation destroyed human fertility, or a man-made pandemic wiped out the majority of the human race? Who might survive, and how might they try to rebuild the world? We will consider Atwood’s post-apocalyptic imaginings with an eye to how their narrative forms contribute to their meanings. Seminar members will participate through lively in-class discussion, online posts, oral and written summaries of published reviews and criticism, and a 3-4 page final reflection. **This seminar is part of the Connections@Cal initiative.**

Katherine Snyder received her B.A. from Cornell University and her Ph.D. in English from Yale; she has been a member of the English Department at UC Berkeley since 1993. She enjoys a good zombie apocalypse as much as the next guy.

Faculty web site: <http://english.berkeley.edu/profiles/70>

**English 24, Section 3**  
**The Arts at Berkeley and Beyond (1 unit, P/NP)**  
**Professor Genaro Padilla**  
**Wednesday 2:00-3:00, 202 Wheeler Hall, CCN: 27952**

**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, the Hearst Museum as well as, if possible, museums in Oakland and San Francisco; we will attend dance, theater, and musical performances at Zellerbach Hall and elsewhere on campus; and we will view at least one film at the Pacific Film Archive. We will engage in discussion based on short response papers by the students in the seminar. **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.**

Genaro Padilla is Professor of English, Associate Dean of Undergraduate Advising in the College of Letters and Sciences, 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: 28998**

**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://ourenvironment.berkeley.edu/people\\_profiles/david-wood/](http://ourenvironment.berkeley.edu/people_profiles/david-wood/)

**Environmental Science, Policy, and Management 24, Section 2**  
**Conservation and Environmental Problem Solving (1 unit, P/NP)**  
**Professor Gordon Frankie**  
**Wednesday 10:00-11:00, 106 Mulford Hall, CCN: 29001**

This seminar is an examination of current conservation and environmental problems in California and elsewhere in the world. What are the origins of the problems from socioeconomic, policy, biological, and political viewpoints? What is being done to address the problems and how successful are the efforts? Examples of problems include conservation of natural resources such as water and soil, waste issues, recycling, restoration, environmental education, and food systems.

Dr. Gordon Frankie is a faculty member in the Department of Environmental Science, Policy, and Management (ESPM) and teaches several courses on the environment and especially to students in the Conservation and Resource Studies Major in the Department of ESPM. Some of these courses are taught off campus in workshop or in field courses. Dr. Frankie's research specialties are conservation biology, pollination ecology, native bee ecology, urban ecology, environmental education, and tropical ecology. He does his field work throughout California and in selected regions of Costa Rica.

Faculty web site: [http://ourenvironment.berkeley.edu/people\\_profiles/gordon-frankie/](http://ourenvironment.berkeley.edu/people_profiles/gordon-frankie/)

**Environmental Science, Policy, and Management 24, Section 3**  
**Discussions on Evolutionary Biology (1 unit, P/NP)**  
**Professor Philip Spieth**  
**Wednesday 4:00-5:00, 14 Haviland Hall, CCN: 29004**

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://ourenvironment.berkeley.edu/people\\_profiles/philip-spieth/](http://ourenvironment.berkeley.edu/people_profiles/philip-spieth/)

### **German 24, Section I**

#### **Post World War II Reflections on the Holocaust: (Auto)Biographical Perspectives (1 unit, P/NP)**

**Professor Frederic Tubach**

**Monday 12:00-2:00, 282 Dwinelle Hall, CCN: 37274**

**This seminar will meet the first seven weeks of the semester. Food for Thought dining arrangements will be discussed in class.**

I was a German and grew up in Hitler's Reich. Bernat Rosner was a Hungarian Jew who was deported to Auschwitz. His entire family perished in the Holocaust, my family survived WWII. Together, we wrote a book about our radically different lives: *An Uncommon Friendship: From Opposite Sides of the Holocaust* (University of California Press, 2nd ed., 2010). My subsequent book: *German Voices: Memories of Life During Hitler's Third Reich* (UC Press, 2011) narrates experiences and insights of Germans during the fateful twelve years of Nazism. Both books will be discussed within the context of established Holocaust literature with excerpts from works by Primo Levi, Elie Wiesel and Ruth Klüger. **This seminar is part of the Food for Thought Seminar Series.**

Frederic C. Tubach is a Professor Emeritus of the German Department. His areas of interest and research include contemporary German culture and society, and medieval European literature and folklore. He has written radio plays for German radio and has recently co-authored a documented history of the Holocaust.

### **History 24, Section I**

#### **The Place of Berkeley in the History of Universities (1 unit, P/NP)**

**Professor Sheldon Rothblatt**

**TuTh 2:00-3:30, Unit 3 - 2400 Durant Avenue - Room L45, CCN: 39213**

**Attendance at the first class meeting on August 23, 2012 is mandatory to secure your place in the seminar. This seminar will meet on ten dates: August 23, August 28, August 30, September 4, September 6, September 11, September 13, September 20, September 25 and September 27, 2012.**

This intensive 5-week course is designed to complement *Fiat Lux Redux*, the Fall Semester 2012 Bancroft Library exhibition and tribute to both the University of California and its celebrated president, Clark Kerr. His contributions were many. The class will view and discuss the exhibitions and Kerr's lifelong work, walk about the campus to better grasp its plan, architecture and symbolism, and visit classrooms in order to appreciate how learning and space are interrelated. We will venture into the world of the internet and interactive computer instruction in order to gain some perspective on teaching and the undergraduate learning experience in the 21st century. The changing nature of student life over many years will receive special attention. Discussions of the present-day university will be viewed within the context of the 800-year old history of the university as a self-governing corporation. The overall object is to understand Berkeley's special place within that ancient legacy, the ways in which it is both generic and unique. A small amount of reading and several very brief written exercises will be used to focus discussion. **The course is designed to introduce freshman students to the history and pleasures of a great world university, to understand its rich heritage and special intellectual and cultural qualities. The hope is that such an introduction will add immeasurably to personal and intellectual growth. This seminar is part of the On the Same Page initiative.**

Sheldon Rothblatt is Professor of History Emeritus. He was Associate Dean of Students, L&S, chair of History, and Director of the Center for Studies in Higher Education at Berkeley. His specialties are Modern Europe and the comparative history of universities. He is a Foreign Member of the Royal Swedish Academy of Sciences (the body that grants most of the Nobel Prizes), a Fellow of the Royal Historical Society of Britain and a Member of the National Academy of Education. Besides Berkeley, he has taught at

other universities in the US and abroad. He has also been decorated by the King of Sweden as Knight Commander of the Royal Order of the Polar Star (the Order was founded in 1748).

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

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 I**

#### **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.

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, 1007 Valley Life Sciences Building, 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-eight 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 5**  
**Ethnobiology, Nutrition, and Global Food Systems (1 unit, P/NP)**  
**Dr. Thomas Carlson**  
**Tuesday 10:00-11:00, 4110 Valley Life Sciences Building, CCN: 43015**

In this seminar we will read Michael Pollan's Omnivore's Dilemma 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., cow) 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. 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. Professor Carlson teaches courses in medical ethnobotany, botany, California plant life, evolutionary medicine, 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. **The seminar is designed for students interested in biological research. 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/labs/caldwell/>

**Integrative Biology 24, Section 8**  
**Randomness and Heritable Memories in Biology (1 unit, LG)**  
**Professor Han Lim**  
**Monday 10:30-12:00, 4110 Valley Life Sciences Building, CCN: 43023**

So you think you are the product of your genes and your environment? Well, that's only part of the picture. In this seminar series we will discuss how random biochemical events and the experiences of previous generations can shape an organism's phenotype. Learn why some decisions that determine an organism's fate are left to chance and how this impacts our strategies for preventing and treating bacterial infections. Discover how single cells can inherit memories. Find out how your grandparents' environment may have played a role in shaping your development.

Han Lim is in the Department of Integrative Biology and teaches systems biology to biology and bioengineering majors. Dr Lim trained in medicine and surgery in Australia and has a PhD in pediatrics from the University of Cambridge. His lab studies gene regulation in bacteria using a combination of experiments and mathematical modeling in order to obtain insight into the fundamental processes involved in gene regulation, to better understand infectious disease and to uncover design principles that can be applied to synthetic biology.

Faculty web site: [http://ib.berkeley.edu/people/faculty/person\\_detail.php?person=274](http://ib.berkeley.edu/people/faculty/person_detail.php?person=274)

**Italian Studies 24, Section 1**  
**From Sadism to Satire: How Dictators are Represented in Film (1 unit, P/NP)**  
**Professor Mia Fuller**  
**Wednesday 10:00-11:00, 6331 Dwinelle Hall, CCN: 46952**

Sacha Baron Cohen's most recent film, *The Dictator*, depicts a comically mad North African tyrant, just in the wake of 2011's Arab Spring of uprisings, which successfully deposed several dictators – including Mu'ammarr Qadhafi of Libya, on whom Baron Cohen's character is most closely based. But depicting modern-era dictators is hardly a new exercise. In this seminar we will focus on how totalitarian rule and its effects have been depicted in film, emphasizing Mussolini's Italy. We will explore the range of portrayals of the ruler, from the dictator as pure evil to the dictator as buffoon, and also discuss films in which the dictator does not appear but we see the effects of his regime. For comparative reasons, we will include a few films addressing Hitler's dictatorship as well. Our guiding questions will be: What purposes does it serve to regard the dead dictator as one-dimensional? How long after the end of a dictatorship do sympathetic or nuanced portrayals begin to appear? And perhaps most importantly, how have filmmakers handled the delicate matter of satire, in which the dictator is lampooned?

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>

**Journalism 24, Section 1**  
**London Calling: Producing News for the BBC (1 unit, LG)**  
**Professor William J. Drummond**  
**Tuesday 2:00-3:30, 104 North Gate Hall, CCN: 48003**

**This seminar will meet ten weeks, beginning September 11, 2012 and ending November 13, 2012. 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. **Students are required to subscribe to the BBC's College of Journalism website. Instructions on registering will be provided. 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**

### **Writing for The Berkeley Political Review (1 unit, P/NP)**

**Lecturer Susan Rasky**

**Monday 2:00-3:30, 142 North Gate Hall, CCN: 48006**

**This seminar will meet from the beginning of the semester through November 26, 2012 with a few Mondays off due to holidays and the November election.**

We are grooming the next set of writers and editors for the Berkeley Political Review, and there is nothing like a presidential election year to strut your stuff. The Berkeley Political Review is a nonpartisan political news magazine that publishes news analysis, current events, opinion, and political humor. The publication strives to approach pressing political issues and events of the day with fair, balanced, and intelligent analysis. The class will introduce students to the world of political reporting and writing for an audience, particularly the processes of content development, writing, and production that go into creating a political news magazine. Students will learn how to formulate and develop a story idea, the research and interview techniques involved in writing a piece of political news analysis, the basic mechanics of such writing, and the editing, layout, and other production processes that occur after an article is written. Students will be required to submit one completed piece to the Berkeley Political Review and to post each week to the BPR website. **Enrollment is limited to twelve freshmen who love writing and politics and, dare we admit it, punditry.**

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, 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**  
**Monday 2:00-4:00, 104 Moffitt Library, CCN: 51826**

**This seminar will meet for eleven weeks, beginning August 27, 2012 and ending November 19, 2012. 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 On the Same Page initiative. This seminar is part of the Food for Thought Seminar Series.**

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

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

**Linguistics 24, Section I**  
**Mythbusters! Language Myths That Drag Us Down (1 unit, P/NP)**  
**Professor Sharon Inkelas**  
**Monday 2:00-3:00, 106 Dwinelle Hall, CCN: 5224 I**

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 the ones implied in these questions: Do some people speak more grammatically than others? Is the English language undergoing a process of decay? Does bilingualism make it harder to succeed in school? Are some dialects (varieties) of English better than others? Are all languages equally complex? Are some more logical? More beautiful? Is there such a thing as a primitive language? We will draw on facts from English, other languages that may be familiar to participants, and lesser known languages that bear on the above and other questions. No linguistic or other prerequisites are required. All interested students are

welcome, especially students who have an interesting language history of their own or who simply have a fascination with language and/or languages. **No linguistic or other prerequisites are required. All interested students are welcome, especially students who have a fascination with language and/or languages.**

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 1**  
**Quantum Mechanics with Matrices (1 unit, P/NP)**  
**Professor Maciej Zworski**  
**Wednesday 3:00-4:00, 736 Evans Hall, CCN: 53818**

In this freshman seminar we will exploit the basis of mathematical quantum mechanics and linear algebra without assuming any prior knowledge of either. Although it sounds intimidating we will start with systems of linear equations with two unknowns and build simple models from that. By the end of the semester we will hopefully see some aspects of the classical/quantum correspondence. This should elucidate the fact that our macroscopic world is "classical" (that is the way it is) despite the fact that it is governed by mysterious quantum principles.

Maciej Zworski is a Professor of Mathematics at UC Berkeley. His research interests include partial differential equations and mathematical physics.

Faculty web site: <http://math.berkeley.edu/~zworski/>

**Mathematics 24, Section 2**  
**Using Random Walks in the Physical and Social Sciences (1 unit, P/NP)**  
**Professor F. Alberto Grunbaum**  
**Tuesday 11:00-12:30, 939 Evans Hall, CCN: 53821**

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

Random walks (whatever they are) have been used as models to understand all sorts of phenomena. More recently this has been enriched with the introduction of so-called "quantum walks." I will explain what this is all about and illustrate some of the surprising results one can explain with these tools by looking at the so called Parrondo's paradox (you may want to Google this one).

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/people/faculty/f-alberto-gruenbaum>

**Mathematics 24, Section 3**  
**What is Happening in Math and Science? (1 unit, P/NP)**  
**Professor Jenny Harrison**  
**Tuesday 3:00-4:00, 891 Evans Hall, CCN: 53824**

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://math.berkeley.edu/~harrison/Home.html>

**Mathematics 24, Section 5**  
**Mathematics in Film and Fiction (1 unit, P/NP)**  
**Professor Olga Holtz**  
**Thursday 6:00-7:00, 939 Evans Hall, CCN: 55207**

"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/>

**Mechanical Engineering 24, Section I**  
**Let There Be Pixels (1 unit, P/NP)**  
**Professor Benson Tongue**  
**Wednesday 1:00-2:00, 127 Dwinelle Hall, CCN: 55303**

Fascinated by the interplay of light and dark? Wondering what separates a compelling image from one that's more, well, mundane? Perplexed by why this megapixel camera is better than that one? Me too. So come and help me learn more about optics, perception and artistry in Mechanical Engineering 24: Let There Be Pixels. In this seminar we'll look at basic optics, human perception, the physics of image acquisition, and the creation and modification of images (photographs, paintings, and so forth). Participants

in the seminar will be learning, doing, and teaching, along with the occasional moment of spacing out. **There are three requirements of participants, all of which should be easily accomplished. The first is the possession of a computer. The second is having something that takes pictures: either a camera phone or a stand-alone camera of some sort. The final need is a new copy of Photoshop, CS5. Luckily, Photoshop is free for all Berkeley students so satisfying this requirement simply means visiting software central and downloading your copy. The seminar is open to all freshmen, regardless of prior experience with photography, Photoshop, painting, and so forth. This seminar is part of the On the Same Page initiative.**

Benson likes to profess in the Department of Mechanical Engineering. His interests lie in the fields of vibrations, dynamics and controls, not to mention Scottish dancing, bicycling, fast cars, bird watching, photography and playing around with Photoshop. His books, Principles of Vibrations and Dynamics: Analysis and Design of Systems in Motion, make great bedtime reading.

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

**Molecular and Cell Biology 90A, Section 1  
Evolution–Creatures, Not Creation (1 unit, LG)  
Professor Jeremy Thorner  
Friday 12:00-1:00, 2070 Valley Life Sciences Building, CCN: 57853**

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 derived from field observations of existing 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 may 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, Biophysics and Structural Biology in the Department of Molecular and Cell Biology. He has been a faculty member at UC Berkeley since July 1974. 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 a cell to cope properly with the changed circumstances.

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  
Merging the Two Cultures (1 unit, P/NP)  
Professor Jack Kirsch  
Tuesday 5:00-6:00, 521 Stanley Hall, CCN: 57856**

**Food for Thought and performance attendance dates and arrangements will be discussed in class.**

The eminent English scientist, novelist and essayist C.P. Snow gave a lecture in 1959 decrying the fact that there was virtually no communication or mutual understanding between scientists and humanists. His lecture can be found via the related course link at the end of this paragraph. The plan for this seminar is to devote two sessions of class discussion to that lecture and to more recent interpretations by authors

who accept and amplify his arguments, and by those who disagree. The remaining weeks will be about equally divided between arts and science with the intention of merging the two for us. The science sessions will consist of selections from the Science on Tuesday section of the NY Times. This section presents a range of important issues in current science at a level that is accessible to the intelligent layperson. The arts component will be built around our attendance at two campus events—most probably a play and a classical music performance. These events are preceded and followed by class sessions dedicated to the particular performances. **Enrollment in this seminar is by instructor approval only. It is my intention to have the class composed of roughly equal numbers of scientists and humanists. Generally I will assign the science presentations to the humanists and vice versa. If you are interested in taking my seminar, please add your name to the wait list for my seminar AND send me an email at [jfkirsch@berkeley.edu](mailto:jfkirsch@berkeley.edu) to let me know your intended major and interests in these areas. Freshmen admitted to this seminar will be enrolled from the wait list. 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.**

I taught and did research in biochemistry and organic chemistry at Berkeley for many years, but always found some time for serious reading, attendance at concerts and the theater. I formally retired a few years ago, and have reversed those areas of focus. I taught freshman seminars devoted completely to the performing arts in fall 2011 and spring 2012. The idea of combining science and art was inspired by the students in those seminars. Please feel free to contact me at [jfkirsch@berkeley.edu](mailto:jfkirsch@berkeley.edu) for more information.

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

**Molecular and Cell Biology 90B, Section I  
Insulin as a Window on Discovery in Biology (1 unit, P/NP)  
Professor Randy W. Schekman  
Tuesday 3:00-4:00, 242 Dwinelle Hall, CCN: 57859**

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

The discovery and therapeutic application of insulin was one of the most dramatic developments in twentieth-century biomedical science. We will consider the impact of insulin in protein biochemistry, and molecular and cell biology. We will also explore the role of the individual scientist in the process of discovery and the importance of animal research in biomedical science. The Discovery of Insulin by Michael Bliss will be available in the student bookstore and Invisible Frontiers: The Race to Synthesize a Human Gene by Stephen S. Hall will be provided in class because it is out of print. Glory Enough For All, a Canadian film and dramatic portrayal of the insulin story, will be available for viewing. For additional information about insulin and its status as the first "miracle drug", use the related web site link below this seminar description to access an article that appeared in the New York Times. **Students considering a major in Molecular and Cell Biology as well as all other interested students are welcome to enroll. This seminar is open to all students interested in the discovery process in the life sciences. A background in high school biology will be useful; AP biology is particularly appropriate preparation for the material we cover. This seminar is part of the Connections@Cal initiative. This seminar is part of the Food for Thought Seminar Series.**

Randy Schekman is a Professor of Cell and Developmental Biology in the Department of Molecular and Cell Biology and an Investigator in the Howard Hughes Medical Institute. Schekman is past Chair of the Department and currently is Chair of the Chancellor's Advisory Committee on Biology, a council that covers the span of life science research conducted on the Berkeley campus. Schekman also directs the campus program in stem cell biology. The research in Schekman's laboratory focuses on the mechanism of transport of membrane proteins within the eukaryotic cell.

Faculty web site: <http://www.hhmi.org/research/investigators/schekman.html>

**Molecular and Cell Biology 90E, Section I  
Matter, Mind, Consciousness (I unit, P/NP)  
Senior Lecturer David E. Presti  
Wednesday 3:00-4:00, 107 Genetics and Plant Biology Building, CCN: 5787 I**

All we know comes to us via our mental experience: our thoughts, feelings, perceptions, and conscious awareness. However, it is a deep mystery how the physical processes of our brain and body give rise to the subjective experience of consciousness. Some argue that the investigation of this mind-body problem is the most profound question in all of science. **Students interested in all areas of the sciences, arts, and humanities are encouraged to enroll. This seminar is part of the Connections@Cal initiative.**

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 monastics in India.

Faculty web site: <http://mcb.berkeley.edu/labs2/presti/>

**Natural Resources 24, Section I  
Global Environment Theme House Freshman Seminar (I unit, P/NP)  
Professors Peter Berck and Matthew Potts  
Thursday 5:00-6:00, 430I 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 2**

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

**Wednesday 2:00-3:00, 252 Barrows Hall (first meeting) and Exhibit Gallery in Hearst Museum, CCN: 61489**

**The first seminar meeting will be in 252 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. Because the museum is closed for renovations for the next two years, our access will be limited. We will, however, be able to view some Egyptian materials in display cabinets, and possibly have the opportunity to assist museum staff with some of the renovation activities. We will also review and discuss the Hearst-Reisner excavations and the past conditions in Egypt that enabled the museum to develop its collection, and compare and contrast those with current realities for the ongoing UC Berkeley fieldwork at El Hibe in Middle Egypt. **First-year students with no background in the field are encouraged 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-Hibe, 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 1**

### **Asian Martial Arts Films and Western Cinema (1 unit, P/NP)**

**Professor George Chang**

**Wednesday 11:00-1:00, Unit Two All Purpose Room, CCN: 64596**

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

Do you like Asian martial arts films? Or wonder how they and Western movies influenced each other? Would you like to compare "Star Wars" to the Japanese film that inspired it? Or see the martial arts movie that sparked the invention of the "Spaghetti Western"? Then this is the seminar for you. Tentative plans include watching and discussing "The Hidden Fortress" and George Lucas' re-interpretation, "Star Wars"; comparing "The Seven Samurai" with "The Magnificent Seven"; and seeing how "Yojimbo" inspired the Spaghetti Western and made Clint Eastwood into a superstar. "Asian Martial Arts Films" will be held in the Unit 2 All-Purpose Room to enhance the living-learning connection in the residence halls. After seminars, students and faculty can continue their discussions over lunch at the Crossroads Dining Commons. Social media will be used in this seminar. **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. His martial arts experience includes many grade school brawls, an embarrassing boxing class in college, and a few decades of Tai Chi, Xing Yi, and Ba Gua training with SF Bay Area masters. 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**  
**Death (1 unit, P/NP)**  
**Professor R. Jay Wallace**  
**Wednesday 12:00-1:00, 234 Moses Hall, CCN: 67180**

In this seminar we will take a philosophical look at some fundamental questions about death and mortality. Is it bad for us to die? Some philosophers have thought that death cannot be bad for us, since we will no longer be around when we are dead. Is this a compelling argument? If not, where does it go wrong? If death is bad for us, does it follow that immortality would be a desirable condition? Is it even coherent to imagine that we might enjoy immortal life? What exactly is death, anyway? How should the fact that we will die affect our attitude toward life while we are living? Readings will be taken from both contemporary and historical sources.

R. 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, normativity, constructivism, instrumental reason, resentment, hypocrisy, and Nietzsche's Genealogy of Morals (among other topics). Current research projects include a book on regret and affirmation, *The View from Here*, and a study of the relational elements in moral theory (working title: *The Moral Nexus*). Professor Wallace 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, and his honors include a Fellowship from the John Simon Guggenheim Memorial Foundation and a senior Research Award ("Forschungspreis") from the Alexander von Humboldt Foundation.

Faculty web site: <http://philosophy.berkeley.edu/people/detail/21>

**Physics 24, Section I**  
**Science at UC (1 unit, P/NP)**  
**Professor Bob Jacobsen**  
**Thursday 2:00-3:00, 127 Dwinelle Hall, CCN: 69470**

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

Research, particularly research in the physical sciences, is a huge part of what Berkeley is. We'll survey what's being done, how it's being done and what it means for undergraduate and graduate students, the campus and the UC system as a whole. **This seminar will be interesting to students who want to know more about how universities work, and what it means to "do research," particularly in the physical sciences, and to students who are interested in a wide overview of the types of scientific research that's currently being done. It'll be less interesting to students who want to spend an entire semester on a single area, as we won't go into that kind of depth. This seminar is part of the Connections@Cal initiative. This seminar is part of the On the Same Page initiative. 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)

**Plant and Microbial Biology 24, Section I**  
**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, 106 Mulford Hall, CCN: 70306**

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

This seminar is meant to provide students the opportunity to explore ways plants have touched or 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, and with so-called crop circles. 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. For the remaining weeks each student will present a 20-minute "seminar" on a plant topic in which they have an interest. This talk should be based on readings and could also involve some personal, first-hand experiences with plants. Additionally, this seminar will expose students to the great breadth and variety of botanical resources available at Berkeley, and will include field trips to the Botanical Garden and the Herbaria, and a tour of the trees of the Berkeley campus.

Lewis J. Feldman is a Professor in the Department of Plant and Microbial Biology and Associate Dean for Academic Affairs in the College of Natural Resources. His lab researches plant development, e.g. how the populations of cells in and around the meristem interact to control root development. Professor Feldman has received both the Distinguished Teaching Award at UC Berkeley and the College of Natural Resources Teaching Award.

Faculty web site: <http://pmb.berkeley.edu/profile/lfeldman>

**Political Economy 24, Section I**  
**Political Economy in Contemporary Perspective (1 unit, P/NP)**  
**Senior Lecturer Alan Karras**  
**Tuesday 4:00-5:00, 205 Wheeler Hall, CCN: 71203**

This seminar will require students to engage with current events, international and domestic, through the lens of political economy. Those who are enrolled will be required to read The New York Times and/or the Economist each week, identify issues of political economy that are being discussed, and present them to their peers for discussion. Differing perspectives on the news, as well as the different ways in which political economy theorists would interact with the events, will be discussed. Students in this seminar will spend a week or two working on the ways in which the political economy interacted with the Ansel Adams photographs, and how we can use these photographs to raise new questions about the political economy of California and higher education. Students should expect vigorous engagement and critical thinking. **This seminar is part of the On the Same Page initiative.**

Alan Karras is Associate Director of and Senior Lecturer in the International and Area Studies Academic Program. He is the author of *Smuggling: Contraband and Corruption in World History*, as well as several other books and articles on similar subjects. He currently serves as a member of the Executive Council for the World History Association and he has previously served as the Chair of the AP World History Development Committee for the College Board (as well as several other committees). He is also a member of the Boards of Editors for Cambridge University Press's forthcoming *Dictionary of World History* and the nine-volume *Cambridge World History*. In addition to smuggling and corruption, his research interests are in eighteenth-century Caribbean history, especially as it relates to more recent political economy.

Faculty web site: <http://iastp.berkeley.edu/People-Detail/Alan%20Karras>

### **Political Economy 24, Section 2**

#### **What is Political Economy? Theories from Ancient to Modern Times (1 unit, P/NP)**

**Dr. Beverly Crawford**

**Tuesday 5:00-6:00, 201 Moses Hall, CCN: 71206**

This seminar introduces the political economy major and is intended to help us understand why we think the way we do about real-life questions of political economy: questions of justice and injustice, equality and inequality, individual rights and the common good. It deals with problems in the inequality of wealth, immigration, affirmative action, and the morality of torture. In each case we ask what is the right thing to do and how should we treat each other? This course invites you to subject your own views about the relationship between power and wealth to critical examination.

Beverly Crawford teaches Political Economy at UC Berkeley and is Co-Director of Berkeley's European Union Center of Excellence.

### **Psychology 24, Section 1**

#### **Social and Personality Psychology in Everyday Life (1 unit, LG)**

**Professor Serena Chen**

**Monday 11:00-12:00, 2304 Tolman Hall, CCN: 73884**

In this seminar, we will read articles from *Current Directions in Psychological Science*, a journal that publishes short review articles (typically 4-5 pages) on various psychology-related topics. These articles are written by experts in a language that is intended to be accessible to non-experts. Each week, students will read one such article and submit a few discussion questions or issues on the article. Classroom time will focus on discussing these questions and issues as a group. Possible topics include loneliness, interracial interactions, status-seeking, gender differences, and self-control.

Professor Serena Chen is an Associate Professor in the Psychology Department. She is a social and personality psychologist who studies the self, identity, and close relationships.

Faculty web site: <http://socrates.berkeley.edu/~serchen1/>

### **Public Health 24, Section 1**

#### **Critical Perspectives on Normal: Gender, Sexuality and Intersections of Difference (1 unit, P/NP)**

**Professor Seth Holmes**

**Thursday 5:30-7:00, Unit 3 All Purpose Room, CCN: 75502**

**This seminar meets the entire semester. Food for Thought dining arrangements will be discussed in class.**

This course serves as the required freshman seminar for the Unity Theme House, which is focused on gender and sexuality. This course takes the critical analysis of the categories of normal and abnormal in society and in health as an important framework for exploring the ways in which people of different genders and sexualities are treated in the United States and globally. The course utilizes readings from multiple disciplines, by authors from diverse backgrounds, as well as arts events on related topics from multiple formats on campus, in an effort to think through the representations of and treatment of people as related to gender and sexuality, primarily, but also intersecting with race, class, ability, and citizenship. Throughout the course, these first-semester freshman students will be introduced to arts events at UC Berkeley as well as opportunities for involvement and leadership in various communities on campus. By the end of the course, students will be able to think critically about gender and sexuality, social difference, social categories, what and who is considered normal or abnormal, bodies and health, and the ways this knowledge may relate to their future at UC Berkeley. **Enrollment in this seminar is by instructor approval only. This freshman seminar serves as the required seminar for "Unity House: exploring diverse genders and sexualities" (<http://themeprograms.berkeley.edu/unity.html>). The seminar will be open to residents of Unity House only. 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.**

Seth M. Holmes, PhD, MD, is the Martin Sisters Endowed Chair and Assistant Professor of Health and Social Behavior in the School of Public Health. Dr. Holmes is a cultural and medical anthropologist and public health physician whose work focuses broadly on social hierarchies, health disparities, and the ways in which representations and perceptions of social difference naturalize and normalize these inequalities. Dr. Holmes is currently investigating social hierarchies and health disparities in the context of US-Mexico migration and the ways in which these inequalities become understood to be natural and normal. This project draws on approximately eighteen months of full-time participant-observation, during which time Dr. Holmes migrated with undocumented indigenous Mexicans in the United States and Mexico, picked berries and lived in a labor camp in Washington State, pruned vineyards in central California, harvested corn in the mountains of Oaxaca, accompanied migrant laborers on clinic visits, and trekked across the border desert into Arizona. An article from this work has been awarded the Rudolf Virchow Award from the Society for Medical Anthropology. Concurrently, he is conducting research into the processes through which medical trainees learn to perceive and respond to social difference. In addition, Dr. Holmes is exploring new interdisciplinary research into the social, cultural, and political processes producing high HIV death rates among specific groups of people, notably Latino day laborers and other ethnoracial minorities, homeless people, and sexual minorities. This new project addresses the ways in which political economic structures and social categories affect individual behavior and vulnerability.

Marisa Boyce is the workshop coordinator for the course and is the Program Coordinator for the Gender Equity Resource Center. She graduated from UC Berkeley in 2005 with a B.A. in Development Studies, studying the political and economic development of developing nations, and spent most of her five years at Berkeley focused on advocating for justice, peace and equality on a global scale. Happy to focus on communities and issues that were primarily local and felt tangible, Marisa worked as a Program Assistant at the Gender Equity Resource Center in the 2004-2005 academic year. After spending a year as a student intern, Marisa joined the professional staff team in 2005 as the Program Coordinator. As Program Coordinator at the Gender Equity Resource Center, Marisa works with women and LGBT students, and their allies, to develop leadership skills; advises student groups whose work centers around LGBT and women's issues; coordinates GenEq events; maintains GenEq's website; and generally supports the communities that GenEq works with. For more information regarding Marisa, visit <http://geneq.berkeley.edu/staff>.

Faculty web site: <http://sph.berkeley.edu/faculty/holmes.php>

**Public Health 24, Section 2  
Women, Weight and Food (1 unit, P/NP)  
Professor Barbara Abrams  
Wednesday 8:30- 10:00, 238 University Hall, CCN: 77018**

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

The United States combines the most abundant food supply in the history of the world with a cultural obsession with thinness and perfection that can affect women's body image, sexuality, and sense of power. In this seminar, we will study these relationships from medical, public health, cultural, social, economic, psychological and political perspectives. Topics include food and nutrition, physical activity, psychological health, obesity and eating disorders, "dieting," food systems, and social messages underlying media advertising. Through readings, discussion and experiential exercises, we will attempt to arrive at a definition of healthy weight and strategies for healthy eating and lifestyles for women.

Dr. Abrams is a Professor of Public Health. She teaches courses in epidemiology, nutrition, maternal and child health and women's health. Prior to teaching at UC Berkeley, she worked as a nutritionist and taught in the Department of Obstetrics, Gynecology and Reproductive Sciences at UC San Francisco. Her research focuses on weight and women's health, particularly during and after pregnancy. She also has studied breastfeeding and the prevention of HIV transmission from mother to child in resource-poor countries.

**Rhetoric 24, Section I  
Bad Books and How to Spot Them (1 unit, LG)  
Professor Daniel F. Melia  
Tuesday 11:00- 12:00, 225 Dwinelle Hall, CCN: 77851**

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

The world is full of Bad Books—not just uninteresting or uninformed or morally repugnant books, but books that set out to present or defend positions that are unsupportable in logic. I speak here not of books like Hitler's *Mein Kampf*, but of books such as von Daniken's *Chariots of the Gods*, which presents "proof" of visits to earth by extra-terrestrials, or Barry Fell's *America B.C.* which "proves" that ancient Celts reached North America before the time of Christ. Often these Bad Books become quite popular. This seminar will examine the proposition that there is a recognizable rhetoric common to many such Bad Books and investigate possible reasons why they often gain a wider audience than Good Books on the same subjects. **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/people.php?page\\_id=1056&p=62](http://rhetoric.berkeley.edu/people.php?page_id=1056&p=62)

## **Rhetoric 24, Section 2**

**Ansel Adams's "Fiat Lux" and the Visual Rhetoric of Berkeley in the 1960s (1 unit, P/NP)**

**Professor Michael Mascuch**

**Thursday 3:00-5:00, 7415 Dwinelle Hall, CCN: 77852**

**This seminar will meet for seven weeks, beginning August 23, 2012 and ending October 4, 2012. Berkeley in the Sixties will be screened in the Media Resources Center in Moffitt Library on dates to be decided at the first class meeting.**

The Fiat Lux book is a classic example of a corporate publicity brochure on grand scale. What image of the University of California, and more specifically, what image of UC Berkeley, is projected through Adams's Fiat Lux portfolio? How are Adams's photographs rhetorical—in other words, how do they persuade us of their vision? We will explore these and related questions by contextualizing Adams's work, seeing it alongside other portfolios of photographs depicting UC Berkeley, California and the US from roughly the same period. Students will complete one 5-7-page final interpretive essay due by the end of the semester. **Please have read John Berger's Ways of Seeing before the first class meeting, as we will be discussing it then. This seminar is part of the On the Same Page initiative.**

My research concerns the functions and effects of documents (in the broadest terms, signifying objects) and the process of documentation. I have specialized in the field of autobiography, or "egodocuments," and published a monograph and a co-edited collection, both on the history of autobiographical texts and discourse. After earning my BA in English at Berkeley I read Modern History at Cambridge and have expertise in early modern British culture and society. Recently I commenced study of photographic documents, and am currently at work on two projects in this area. One is about photography and autobiography; the other is about photography and the Cambodian genocide. My fieldwork in Cambodia is described in the Summer 2011 issue of the UC Berkeley alumni magazine, California. I am also a founding editor of the Brill academic book series, Egodocuments and History.

Faculty web site: [http://rhetoric.berkeley.edu/people.php?page\\_id=1056&p=61](http://rhetoric.berkeley.edu/people.php?page_id=1056&p=61)

## **Scandinavian 24, Section 1**

**Thinking with Animals: Animals, their Voices, and their Rights in Scandinavian Literature and Film (1 unit, P/NP)**

**Professor Linda Rugg**

**Wednesday 2:00-3:00, 6415 Dwinelle Hall, CCN: 78738**

**Film screening dates and arrangements will be announced in class.**

In this seminar we will discuss animal rights and animal perspective as represented in Nordic literature. Students will read texts and view films from Denmark, Iceland, Norway, and Sweden in order to understand the way in which the perspective of animals is imagined, and how that perspective is engaged to speak on behalf of animals. The philosophical and ethical question of the boundary between humans and animals will be discussed in light of some recent theoretical writing on animals. **Enrollment is limited to twelve freshmen.**

Linda Haverty Rugg is an Associate Professor in the Scandinavian Department. She has published a book on autobiography and photography and completed a book on autobiography and film. Because her doctorate was in Comparative Literature, the topics of her published articles range from Mark Twain and race to films by Werner Herzog and Ingmar Bergman, but the major emphasis of her publication has been in autobiography studies. She is now working on a book on ecology and culture in Scandinavia, a subject she has taught several times at Berkeley. This course on animals reflects one aspect of that project.

Faculty web site: <http://scandinavian.berkeley.edu/people/rugg.html>

**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, 108 Wheeler Hall, CCN: 83212**

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 a novel by Michio Takeyama (*Harp of Burma*), and short stories by Madeleine Thien (*Simple Recipes*), Rattawut Lapcharoensap (*Sightseeing*), Merlinda Bobis (*White Turtle*) and Nam Le (*The Boat*). We will situate these readings, which journey to and from or transit through, Burma, Indonesia, Japan, Thailand and Vietnam, against essays on creativity, translation and mobility by writers Michael Chabon (*Imaginary Homelands*) and Siri Hustvedt (*Yonder*). **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](mailto:Connections@Cal) initiative.**

Penny Edwards is Associate Professor of South and Southeast Asian Studies at UC Berkeley.

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

**Spanish 24, Section I**  
**Talking Funny: Language Variation in Spanish and English Literary Texts (1 unit, LG)**  
**Professor Milton Azevedo**  
**Tuesday 11:00-12:00, 5125 Dwinelle Hall, CCN: 86196**

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.**

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/our-faculty/>

**Spanish 24, Section 2**  
**Envisioning the University (1 unit, P/NP)**  
**Professor Ignacio Navarrete**  
**Tuesday 10:00-11:00, 5125 Dwinelle Hall, CCN: 86199**

This year's "On the Same Page" program celebrates Clark Kerr's visionary "Master Plan" that led to the multi-campus UC system that we have today. What is your vision for the University of California? There are lots of different ways to think about this, involving trade-offs of interests and reconciliation and compromise between different points of view. To begin our exercise in envisioning the University, we'll read some key historical documents, including selections from Kerr's master plan and from the recent "Commission on the Future" report. We'll take a particularly close look at admissions policies, past and present, and pay special attention to the views of undergraduate students as expressed in the annual "UCUES" surveys. We'll invite visitors to meet with us who play important roles in planning for the University's future. And in the closing weeks of the semester, teams from the class will develop their own visions in the form of a new Master Plan, an admissions policy, and/or a new module for the UCUES survey, and present them to UC administrators. **This seminar is part of the Connections@Cal initiative. This seminar is part of the On the Same Page initiative.**

Professor Ignacio Navarrete has taught at Berkeley for 25 years, and has been a campus leader in formulating policy for undergraduate education.

**Spanish 24, Section 3**  
**Photographs of/for the Future: Two Case Studies—Buenos Aires and University of California (1 unit, P/NP)**  
**Professor Natalia Brizuela**  
**Thursday 10:00-11:00, 5125 Dwinelle Hall, CCN: 86201**

In 1935, with the celebrations of Buenos Aires' first centennial approaching the following year, the Mayor of the city commissioned Horacio Coppola, the most avant-garde Argentine photographer of the time, to make an official photo-book of the city. In 1963, with the first centennial of the University of California a few years away, Ansel Adams, the world's most famous nature photographer, was commissioned by the University's President to make a photo-book of the University. We will spend our weekly meetings this semester studying these two photo-books, both 'commemorative documents' which instead of looking back to the years already gone by (which is what monuments, commemorations and photographs always do) look forward to the years to come. Photographs of and for the future. Fiat Lux: Let There be Light. **This seminar is part of the On the Same Page initiative.**

Natalia Brizuela is Associate Professor of Latin American literatures and cultures. Author of *Photography and Empire and Landscapes for a Modern Brazil* (2012), she has also edited two books, *Literatura e Outras Artes* (2012) as well as an edited volume of critical essays on Argentine avant-garde escritor maldito Osvaldo Lamborghini (2010). She has also published a number of essays on a range of topics including gender and sexuality; photography and State formations; visual culture and poetry; travel narratives; the essay genre; literature and photography; panoramas; literature and politics; and albums. Professor Brizuela's areas of research lie at the intersection of Latin American literature and visual technologies/new media, particularly photography and film. 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, twentieth and twenty-first centuries. She is currently writing two books: one on contemporary cinema, and the other one on albums (all kinds of albums).

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

**Spanish 24, Section 4**  
**Imagining Havana (1 unit, P/NP)**  
**Dr. Teresa Stojkov**  
**Wednesday 4:00-5:00, 220 Stephens Hall, CCN: 86502**

Throughout the first half of the twentieth century numerous writers and artists, from Langston Hughes and Graham Greene to George Gershwin and Paul Bowles, were fascinated with the cultural milieu of Havana, Cuba. In this seminar we will examine the cultural landscape of pre-revolutionary Havana — between the early 1930s and the late 1950s— and analyze its diverse representations in literature and the arts. Of particular interest is the influence and poetic uses of Afro-Cuban rhythms (son cubano) in key writers and musicians of the era. While our main focus will be Cuban artists, we will also read and listen to Spanish and North American artists. **This seminar is part of the Connections@Cal**

Teresa Stojkov holds a PhD in Romance Languages and Literature with a specialization in Latin American Literature. She is Associate Director at the Townsend Center for the Humanities at UC Berkeley. Previously she taught at Oberlin College and the University of Chicago.

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

**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: 88054**

**This seminar will meet for eight weeks, beginning September 10, 2012 and ending October 29, 2012.**

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 also 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 Monday, September 10th.**

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.

**Chicano Studies 39A, Section I**  
**Chicano Civil Rights Movement (1.5 units, P/NP)**  
**Professor Carlos Muñoz Jr.**  
**Thursday 9:30-11:00, 204 Wheeler Hall, CCN: 13203**

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.**

Dr. 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 39J, Section I**  
**Lucretius' On the Nature of the Universe (4 units, LG)**  
**Visiting Lecturer Laura Jansen**  
**Tuesday and Thursday 11:00-12:30, 204 Wheeler Hall, CCN: 14741**

Lucretius' *On the Nature of the Universe* is one of the most brilliant and powerful poems in Latin literature, a passionate attempt at dispelling humanity's fear of death and the gods, and a detailed exposition of Epicurean philosophy. Perhaps no other Roman poem deals with such an extensive range of topics: the cosmos, religion, astronomy, the natural world, the rise of western civilization, the mind and sensation, even love. This course offers the opportunity to explore Lucretius' universal narrative, as well as the various ways in which the poet attempts to represent his text as 'the universe itself.' We will also enhance our understanding of 'the poem about the universe' from the perspective of its reception in fictional and scientific literature, including its most recent treatment by Stephen Greenblatt's *The Swerve: How the World became Modern*. This seminar may be used to satisfy the Arts and Literature breadth requirement in Letters and Science.

Laura Jansen lectures for the Department of Classics. She has held posts at the University of St Andrews, Scotland (2008-11), and Stanford University (2011-12) and holds degrees from Oxford (MPhil 2004) and Trinity College, Dublin (PhD 2009). She specializes in Roman literature of the Republican and Imperial periods with an emphasis on textuality and cultures of reading, writing, and editing. She has published on paratextuality in Roman authors and is writing a book entitled *Liminal Mediations in Roman Poetry* for Cambridge UP. All of her research addresses various areas of literary theory, criticism, and thought, both ancient and modern.

**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: 26178**

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 and submit a written paragraph 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 and written 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 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.**

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.

To view Professor Barsky's photographs of the Occupy Cal / Day of Action at Sproul Hall at UC Berkeley on November 9, 2011, visit <http://www.cs.berkeley.edu/~barsky/occupy.Cal.html>.

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

**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: 19033**

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

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)

**Environmental Science, Policy, and Management 39E, Section I**  
**Biology's Ideologies (2 units, P/NP)**  
**Professor Ignacio Chapela**  
**Wednesday 4:00-6:00, 332 Giannini Hall, CCN: 29009**

Human understanding of living things has changed dramatically over the centuries, and certainly over the course of the last century. Simultaneously, resilient ideas about what and who we are, and about how we fit in the larger tableau of life run deeply in the way we view, study, utilize and intervene in the world. Launching from Lewontin's invitation to view Biology as ideology, in this seminar we will explore the many and diverse ideologies that have populated the discipline and practice of this field over the years. From the long pre-agricultural history of humanity, through the origins of agriculture and forth into the years of the Bio-Economy, we will look for traces of ourselves—our ideologies—in the way we relate to non-human living others. This seminar, as an intellectual trip, promises many surprises involving views on religion, politics, and economics as well as foundational concepts of biology. We will read, watch movies and walk in the richly biological—and richly ideological—Berkeley campus. **This seminar will require critical capacity and fearless commitment to intellectual inquiry. The intention is to provide a space for cross-pollination of ideas from the humanities, the social sciences and the natural sciences: students from all fields will be welcome.** This seminar may be used to satisfy the Philosophy and Values breadth requirement in Letters and Science.

Professor Chapela self-describes as a Biologist in the making, since he believes that understanding living things is itself an evolving project. He has formal training in microbial ecology (the world and interactions of the living invisible), and has practiced his craft in various contexts over the years: in industry, in governmental, non-governmental and multilateral organizations, working for indigenous communities and in various appointments as an academic researcher. His current lab and field work is on the geographical visualization and mapping of microscopic, airborne biological materials.

Faculty web site: <http://www.cnr.berkeley.edu/chapelalab/>

**History of Art 39E, Section I**  
**Socially Engaged Art and the Future of the Public University (1.5 units, P/NP)**  
**Professor Gregory Levine**  
**Thursday 9:00-12:00, 425 Doe Library, CCN: 04853**

**This seminar will meet the first seven weeks of the semester. Event dates and arrangements will be discussed in class.**

Co-taught by a Bay Area artist, Scott Tsuchitani, and UC Berkeley art historian, Professor Gregory Levine, this seminar examines “socially engaged art,” an emerging form of creative public practice. It introduces artists, collectives, and crowd-sourced participants employing diverse themes, imageries, materials, technologies, performances, sites, tactics, and philosophies. Whether it takes the form of a bold action in a discrete but visible space, or a long-term nationwide campaign, socially engaged art suggests a unifying premise: namely, that performative, public, and frequently participatory cultural work can effectively intervene in the status quo to bring about meaningful social transformation. The seminar therefore asks, “Can art create social change, help achieve social justice?” How is socially engaged art different from, on the one hand, what we generally think of as political activism and, on the other, art with political content viewed in museums and art galleries? We will also examine ongoing debates around the ethics, aesthetics, and effectiveness of socially engaged art, which by its own nature is so resistant to definition and containment that neither academics nor practitioners can agree on a name for it (other names include interventionist art, participatory art, dialogic art, social sculpture, relational aesthetics) and critics and advocates alike dispute its status as “art.” A recent focus of activity in socially engaged art is the future of the public university in a time of global neoliberalism and degradations of access and diversity. This suggests an immediate point of inquiry for this seminar: what sorts of art and processes of cultural production and encounter might we imagine, as we imagine the future of UC and public higher education? **We invite students who are interested in the arts and society—participants need not think of themselves as “artists” or “activists.” We also seek students interested in the critical conversation about public higher education taking place right now in local and global contexts. 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.**

Gregory Levine is Associate Professor in the History of Art. His teaching and research focus on various fields including East Asia, Buddhist visual culture, and histories of collecting. An appointed member of the Berkeley Faculty Association, he is active in conversations around the future of UC. For more information regarding Professor Levine, visit [http://arthistory.berkeley.edu/Faculty\\_Levine.html](http://arthistory.berkeley.edu/Faculty_Levine.html).

Scott Tsuchitani is a visual artist based in San Francisco whose interdisciplinary cultural interventions have impacted art, academic, and public discourse locally and internationally. He has exhibited his work in New York and Los Angeles, as well as the SFMOMA and de Young Museum in San Francisco. He has been lecturing on art and intervention at colleges and universities around the Bay Area since 2005. For more information regarding Mr. Tsuchitani, visit <http://www.scotttsuchitani.com/>.

**Interdisciplinary Studies 39B, Section I**  
**The Evolution of Rights and Laws (2 units, LG)**  
**Professor Renate Holub**  
**Tuesday 5:00-7:00, 279 Dwinelle Hall, CCN: 45002**

In this seminar we will study the evolution of rights and laws in a global context. First, we will familiarize ourselves with the Law of the 12 Tables, one of the early constitutions that emerged in the Roman Republic. We will then examine the Codex Iuris, a foundational text in the codification processes of European Law. After comparing medieval constitutions from Italy, Spain, Germany, and France, we will accelerate our historical pace and look at the modern transatlantic constitutions. Finally, we will examine constitutions that have emerged in post-colonial nation states, and we will have a look at Sharia Law. Theoretical texts will accompany our institutional analysis. We will look at Plato and Cicero, then we will move on to Dante and Vico, before embarking on readings by Islamic scholars. We will conclude this seminar by looking at some features of international law, from both a transatlantic approach and from a third-world approach. **This seminar is part of the Connections@Cal initiative.** This seminar may be used to satisfy the Philosophy and Values breadth requirement in Letters and Science.

Professor Renate Holub received her Ph.D. from the University of Wisconsin in 1983, with a dissertation on Giambattista Vico. He was extremely interested in the evolution of rights and laws and wrote a New Science on the Common Nature of Nations. Her book on Antonio Gramsci, Beyond Marxism and Postmodernism, has been translated into Farsi and Korean. She is currently completing a book on Human Rights Before the State: On Vico's Theory of Global Justice.

Faculty web site: <http://learning.berkeley.edu/holub>

**Italian Studies 39F, Section I**  
**Introduction to Fascism (2 units, LG)**  
**Professor Mia Fuller**  
**Wednesday 2:00-4:00, 81 Evans Hall, CCN: 47317**

What is fascism? What was it at the time of its invention, in Italy, nearly a century ago? What did it become? And what do we mean by the term today? In this seminar we will study fascism historically, as an Italian phenomenon that emerged immediately after World War I, and which Benito Mussolini brought to power in 1922; and as the inspiration for comparable right-wing movements in Germany under Hitler, Spain under Franco, and elsewhere in Europe and the globe, from then to the present. We will also examine it as ideology, scrutinizing its claims to constituting a substantial political philosophy rather than merely exacerbated nationalism; and as a cultural attitude that typically aestheticizes tyranny and celebrates state power. Finally, we will study views of fascism today. Even in countries most devastated by fascist regimes, there are still people who are nostalgic for their own past oppression: why? How can fascism, based as it is on the denial of individual rights, still garner as much as support as it does? Why, for example, did a neo-fascist party win seven percent of the vote in Greece's elections of May 2012? Our seminar will approach these questions through primary and secondary sources, films, and journalistic materials, most of which will be provided through bSpace. This seminar may be used to satisfy the Historical Studies or Social and Behavioral Sciences breadth requirement in Letters and Science.

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>

**Jewish Studies 39F, Section I**  
**Poets, Prophets, and Madmen (2 units, LG)**  
**Ms. Yosefa Rosenberg**  
**Tuesday 2:00-4:00, 252 Barrows Hall, CCN: 47803**

Since the Romantics, we have imagined poets, artists and philosophers as prophets. Consider, for example, William Blake's strange and colorful prophecies, Friedrich Nietzsche's decision to cast philosophic discourse as prophecy in *Thus Spoke Zarathustra*, or the decision by H.N. Bialik (the father of Modern Hebrew poetry) to respond to Jewish pogroms in an angry prophetic voice. This class will try to understand the figure of the poet-as-prophet, looking both backwards to the biblical and Greek sources of prophecy, as well looking forward to consider how modernist and contemporary poets have changed and fought with their prophetic inheritance. The seminar will examine how prophecy has been a way to consider voice, gender, power, nationalism, secularity, apocalypse & war, from the mad-pamphleteers of 17th century Cromwell's England, to the traumatized explosion of European poetry in the wake of the first world war. Spanning from Jeremiah and Cassandra to Friedrich Hölderlin, Walt Whitman, Arthur Rimbaud, Yehuda Amichai and Anne Carson, this class is a wide survey of poets, prophets and the abysses and cracks between them. This seminar may be used to satisfy the Arts and Literature 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.

**Journalism 39K, Section I**  
**Ethical Issues in Journalism on Film (1.5 units, P/NP)**  
**Senior Lecturer Joan Bieder**  
**Wednesday 10:00-12:00, 101 North Gate Hall, CCN: 48008**

**This seminar will meet for ten weeks, beginning August 29, 2012 and ending October 31, 2012.**

This class is designed to demonstrate how ethical issues in journalism are identified, framed and mediated in feature films, including original plot lines as well as films based on actual events of journalistic malpractice. We will look at what part journalism ethics play in the reporting process and how a breach of those ethics may affect newspaper, magazine and television newsrooms. Since the days of "Front Page (1931) and its adaptation a decade later, "His Gal Friday" (1940), film makers have portrayed journalism and journalists as entertainment, exaggerating for comic effect certain realities of the profession and ethical conflicts posed by these realities. More recently as serious ethical issues rocked major American newsrooms, several feature films have dramatized factual incidents of journalistic malpractice, recognizing and exploring the innate drama of these events in a more serious, meaningful way. The films screened and discussed in this course explore the circumstances under which unethical behavior occurs and the impact on newsrooms, editors, reporters and corporate owners when the system breaks down and the consequences. Several of the ethical challenges portrayed in the films include the role played by the culture of news organizations thought to be above reproach; the ability of government to influence the news agenda; the ability of corporate concerns to restrict the news agenda; whether any of the above may affect the peoples' right to know and, ultimately, if/when it does, how our democracy may suffer. Each week we will screen a film (some require two weeks to screen) followed by a discussion of the film. We will address the concerns and conflicts facing each character and the strategies used to resolve them. There will be occasional guests. The weekly readings, required before each class session, will inform the discussions. One absence is allowed in this ten-week class. **Enrollment is limited to twelve students.**

Joan Bieder is a Senior Lecturer and Associate Dean at the Graduate School of Journalism where she teaches courses in television news reporting, writing, producing and storytelling. Last year she taught a reporting travel course on Israel and the Palestinian territories for broadcast and print students. After

several years teaching in the news department of the television station in Singapore, she published a history book in 2007 entitled *The Jews of Singapore*. Before coming to Berkeley, she was an ABC -TV network news producer in New York where she taught at Columbia University's Graduate School of Journalism.

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

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

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

**Mr. Alan Pomerantz**

**Monday 10:00- 12:00, 340 Moffitt Library, 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, symbolic speech, college speech codes, "hate" speech, "occupy Wall Street" movement, and money in politics. 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 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 at Pillsbury Winthrop Shaw Pittman, 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.

### **Legal Studies 39E, Section 2**

#### **Democracy, Equality (2 units, LG)**

**Professor Christopher Kutz**

**Tuesday 12:00-2:00, 203 Wheeler Hall, CCN: 51509**

In this seminar we will take up the question of why democracy and equality matter to us, as political ideals. We will read some ancient (e.g. Plato), Enlightenment (e.g. Rousseau) and modern (e.g. John Rawls) writers, to try to get a fix on the meaning of these terms, an understanding of their value, and the ways they can and cannot be expressed in our political institutions. The seminar will involve close reading and lots of discussion. **I am looking for serious students interested in thinking and talking about politics and philosophy, while reading a few of the greatest books written over the last 2000 years. The books are not technical, but they are also not easy. My hope is that this is a course whose discussions will stay with you for your lives. This seminar is part of the Connections@Cal initiative.** This seminar may be used to satisfy the Philosophy and Values breadth requirement in Letters and Science.



I have taught law and philosophy at Berkeley since 1998. My research now focuses on two issues: the ethics and law of war, and the design of political institutions that satisfy our ideals while also meeting our needs and limitations as complicated psychological creatures.

**Materials Science and Engineering 39A, Section I**  
**The Berkeley Experience (1.5 units, P/NP)**  
**Professor Kal Sastry**  
**Tuesday 4:00-5:30, 65 Evans Hall, CCN: 53203**

**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. The first seminar meeting will be on August 28, 2012.**

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 Berkeley experience. The Berkeley Experience seminar is intended not only for freshman but also for sophomores so they can share their first-year experiences with freshmen and work together. This is found to provide 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. This seminar is offered for P/NP and the grade will be assigned based on active and full participation in all the classroom sessions and field trips. **This seminar is part of the Connections@Cal initiative.**

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 several 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."

**Music 39M, Section I**  
**Classical Vocal Works of African-American Composers (3 units, LG)**  
**Lecturer Candace Johnson**  
**Tuesday and Thursday 12:30-2:00, 124 Morrison Hall, CCN: 60422**

This seminar offers a general survey of instrumental and vocal literature written by Black composers of classical music from the late nineteenth century to the present. Primary emphasis is on the concert (art) song tradition. Students will gain an understanding of the unique musical, sociological, and literary contexts that led to the development of this hybrid body of music. Works will be considered within the broader scope of American classical literature. Class lectures will be supplemented with recordings, demonstrations, and discussion. Reading and listening assignments will be given regularly, with short papers and class presentations assigned periodically. **There are no prerequisites. No prior music experience is required. Enrollment is limited to twenty-two students.** This seminar may be used to satisfy the Arts and Literature breadth requirement in Letters and Science.

Soprano Candace Johnson earned her doctorate in voice performance from the University of Michigan and teaches courses in voice and musicology at the University of California, Berkeley. She performs opera, recital and concert works, and specializes in the research and performance of classical works by African-American composers. She is a soloist on the CD recording *The New Anthology of African-American Art Songs*. Johnson has sung the lead roles in operas by Mozart, Menotti, and Puccini. Recent performances include guest appearances at Carnegie Hall and The Manhattan Center. In November 2012, she will premiere her own one-woman show, *Birthing A Voice*, at St. Peter's Church in New York City. The show is a memoir of her personal journey as a singer and commemorates her times studying with the late, renowned Shirley Verrett.

Faculty web site: <http://www.cjsings.com>

**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, 151 Barrows Hall, CCN: 61174**

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>

**Philosophy 39M, Section I**  
**Free Will (3 units, LG)**  
**Professor Timothy Clarke**  
**Wednesday 2:00-5:00, 65 Evans Hall, CCN: 67213**

What would it take for our choices and actions to be 'free'? Is everything we do ultimately the result of factors beyond our control—and if so does this threaten our freedom? If free will is an illusion, can we still be held morally responsible for how we act? In this seminar we will read and discuss together a selection of important texts (ancient, medieval and modern) on the problem of free will. **Enrollment is limited to fifteen students.** This seminar may be used to satisfy the Philosophy and Values breadth requirement in Letters and Science.

Timothy Clarke is an Assistant Professor in the Department of Philosophy. His teaching and research interests are primarily in ancient Greek philosophy.

**Slavic Languages and Literatures 39C, Section I**  
**Images of Eastern Europe (3 units, LG)**  
**Professor David Frick**  
**Tuesday and Thursday 3:30-5:00, 183 Dwinelle Hall, CCN: 79757**

We will examine images of an "other," not quite European Europe in a variety of literary and visual representations. Two main genres will be at the center of our investigation: works of imaginative literature in which inhabitants of Eastern Europe seek to establish their own identities, and works of Western European and American literature that put Eastern Europe to their own thematic uses. We will

range from the Gothic clichés of Dracula, through more subtle attempts of Westerners and exiles to explain to Western readers what it means to cross the boundary between Eastern and Western Europe, to the versions of self-definition found in Eastern European novels and film, and finally to the ways in which Eastern Europe has become a part of the imaginative geography of Western literature and film. The ultimate goal of the course will be two-fold: to understand something about the countries of Eastern Europe and about the ways in which Eastern Europe has functioned in our imaginations. Primary focus will be on the twentieth century. Among the authors: Bram Stoker, Thomas Mann, Italo Calvino, John le Carré, Günter Grass, Ludvík Vaculík, Isaac Bashevis Singer, Gregor von Rezzori. This seminar may be used to satisfy the Arts and Literature or International Studies breadth requirement in Letters and Science.

Professor Frick has spent many months since 1980 conducting research in Poland, Lithuania, Russia, and Germany. His main area of interest is in the cultural history of early modern Poland, Lithuania, Belarus, and Ukraine, and he has devoted special attention to conflicts between social authorities and personal identities.

**Slavic Languages and Literatures 39M, Section I**  
**Linguistic Diversity: The Languages of the Former Soviet Union (3 units, LG)**  
**Professor Darya Kavitskaya**  
**Monday and Wednesday 4:00-5:30, 255 Dwinelle Hall, CCN: 79760**

Russian first comes to mind when the Soviet Union is mentioned and in a sense rightly so since it used to be the lingua franca in the area. However, this territory is famous for its incredible linguistic diversity: the USSR was a unique multilingual state with over 120 languages spoken. We will talk about various Slavic languages (Russian, Ukrainian, and others), and also about Baltic (e.g., Lithuanian), Armenian, Turkic (e.g., Tajik, Uzbek, Tatar), Uralic (e.g., Nenets), and the languages of the Caucasus (e.g., Georgian). The course will cover various topics in the structure of these languages, patterns of multilingualism, Soviet language policy, and post-Soviet language planning. We will also touch upon the topic of fieldwork with endangered languages, based on the instructor's research and field experience. Taking a seminar-style course in a small group of highly engaged students may be the best part of one's college experience; it is also an opportunity to learn research skills. You may choose any relevant topic that appeals to you for a research paper written under faculty supervision. **No linguistic or other prerequisites. All students are welcome, especially students who are interested in language and multilingualism.** This seminar may be used to satisfy the Social and Behavioral Sciences or International Studies breadth requirement in Letters and Science.

Professor Kavitskaya's research and teaching interests are in Slavic and general linguistics, specifically phonetics, phonology, historical Slavic, and endangered languages of the former Soviet Union. She conducted fieldwork and research on Slavic (Russian, Serbian, Czech), Turkic (Crimean Tatar), Uralic (Tundra Nenets), and Kartvelian (Georgian) languages. After completing a Ph.D. in Linguistics at UC Berkeley (2001), professor Kavitskaya taught at Yale (2001-2011) and joined the UC Berkeley faculty (the Department of Slavic Languages and Literatures) in the Fall of 2011.

Faculty web site: <http://slavic.berkeley.edu/faculty.html#kavitskaya>

**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: 83215**

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.

### **African American Studies 84, Section I**

#### **Engaged Scholarship and Activism in the African American Community (2 units, P/NP)**

**Professor Na'ilah Nasir and Mr. John Quame Patton**

**Friday 12:00-3:00, 650 Evans Hall, CCN: 00782**

**This seminar will meet for nine weeks on the following dates: August 31, September 14, September 21, September 28, October 12, October 26, November 2, November 9, and November 30, 2012. Field trip arrangements will be discussed in class.**

This seminar will explore the meaning and practice of engaged scholarship and activism in the African American community. Students will interact with guest speakers, including community change-makers and scholars for whom positive sustained engagement in the African American community is central to their work, both in person and through their works. Students will also take field trips off campus to visit innovative community organizations. **Enrollment in this freshman and sophomore seminar is by instructor approval only. Please send an email to the instructors, [nailahs@berkeley.edu](mailto:nailahs@berkeley.edu) and [quame@berkeley.edu](mailto:quame@berkeley.edu), to request enrollment in the course. Please provide your name, year, major or intended major, and your reasons for wanting to take the course.**

Na'ilah Suad Nasir is an Associate Professor in the Graduate School of Education and the African American Studies Department at the University of California, Berkeley, where she has been on the faculty since 2008. Her program of research focuses on issues of race, culture, and schooling. For instance, one recent research project examines how children and adolescents think about race in relation to school. She is the author of *Racialized Identities: Race and Achievement for African-American Youth*, published by Stanford University Press. She has also published numerous articles in scholarly journals. She received a teaching award from the African American Student Development Office in 2011, and she strives to integrate her scholarly work with her commitment to community and engaged scholarship. She also serves as Resident Faculty in Christian Hall in Unit I.

Faculty web site: <http://africam.berkeley.edu/faculty/nasir.html>

John Quamé Patton is Coordinator of the Interdisciplinary Studies Program at the Student Learning Center at the University of California, Berkeley, where he creates and runs programs to assist students academically with upper-division challenges, research methods and writing towards research. He 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). Quamé teaches several courses in the African American Studies Department, including an upper-division course on the history of hip-hop, and an introductory seminar, *Investigating Life Journeys: Exploring the Search for Identity, Representations, and Authenticity*. He is also author of the forthcoming book, *"The Power of Letting Go: The Ultimate Act of Love."* He is co-founder of a non-profit that seeks to support the development of African American young men. In addition to his academic work, Quamé is also a musician; his 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 Taj the Infinite. His album, *"Invisible Man,"* was voted underground hip-hop album of the year for 2009. His most recent album,

"Talkin' All That Jazz," with DeQwan, was released in 2011. Having lived in New York, North Carolina, Los Angeles and Oakland, Quamé brings a wealth of experience, humor and oral stories to his classes.

**Anthropology 84, Section I**  
**Race, Gender, and Social Life in Colonial Honduras (1 unit, LG)**  
**Professor Rosemary Joyce**  
**Tuesday 1:00-2:00, 225 I College Avenue, Room 101, CCN: 02486**

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. **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. This seminar involves learning how to read handwritten Spanish colonial documents. It will be conducted in English, although you'll be reading historic documents written in Spanish. You should be comfortable reading basic Spanish documents like letters or newspaper articles (most participants with two years of high school Spanish or equivalent will be comfortable). 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 Uluá 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**  
**Parsing CED/Architecture lectures over Pizza (1 unit, P/NP)**  
**Professor Tom Buresh**  
**Wednesday 6:00-9:00, 104 Wurster Hall, CCN: 03609**

**Class will meet based on architecture lecture dates this fall on Wednesdays with possible optional gatherings on Mondays. First class TBA when lecture dates are finalized.**

This freshman/sophomore seminar group will collectively attend major College of Environmental Design and Architecture lectures during the semester, and afterward discuss the lectures in greater depth over pizza in a Wurster Hall classroom. The architects who have the biggest presence in journals and awards craft a professional story of who they are; we'll try to develop an understanding of some of these stories. Tom Buresh will organize these sessions, but members of the faculty and graduate students from the Department will also be invited to participate. Students will be required to develop a sketchbook of notes or similar responses during the course of the semester. **This class is intended for students who**

**would like to become practicing architects, and are interested in dissecting how discourse and positioning affects professional reputation.**

Tom Buresh was Professor and Chair of Architecture at Taubman College of Architecture and Urban Planning at the University of Michigan from 2001-09. For the thirteen years prior he was a member of the faculty at the Southern California Institute of Architecture in Los Angeles. During the same period he held visiting appointments at the University of California, Los Angeles; University of California, Berkeley; Rice University; University of Melbourne; University of Texas, Austin; and the University of Minnesota. In 1988, he and Danelle Guthrie established Guthrie + Buresh Architects. Their work has been published in over 55 books, periodicals, and newspapers and exhibited internationally in the cities of New York, Los Angeles, Barcelona, London, Copenhagen, Vienna, and Tokyo, among others. In 1998 Millar/Guthrie + Buresh's project WaterWorks AWTP received a Progressive Architecture Awards Citation from Architecture Magazine. Guthrie + Buresh's project WorkHouse was featured in "The Un-private House" exhibition at the Museum of Modern Art in New York. Buresh received a BA in Architecture from Iowa State University and Master of Architecture from the University of California, Los Angeles. Buresh was the Dinkeloo Fellow at the American Academy in Rome in 1986. The College of Design at Iowa State University named him their 2000 Distinguished Alumnus and in 2001 he was recognized as the Distinguished Alumnus by the Department of Architecture at the University of California in Los Angeles. While at Taubman College at the University of Michigan Buresh received the 2003 Donna M. Salzer Award for excellence in teaching and the 2004 Faculty Service Award, and in 2009 was named the Emil Lorch Collegiate Professor of Architecture and Urban Planning.

Faculty web site:

[www.ced.berkeley.edu/ced/people/query.php?id=498&dept=all&title=all&first=Tom&last=Buresh&ced&berkeley](http://www.ced.berkeley.edu/ced/people/query.php?id=498&dept=all&title=all&first=Tom&last=Buresh&ced&berkeley)

### **Earth and Planetary Science 84, Section I**

#### **Climate Change and Water in California: Past, Present, and Future (2 units, LG)**

**Professor Lynn Ingram**

**Monday 1:00-3:00, 55A McCone Hall, CCN: 19056**

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

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

Faculty web site: <http://eps.berkeley.edu/%7Ewenbo/index.html>

**East Asian Languages and Cultures 84, Section I**  
**Reading the Multilingual City: Chinese, Korean, and Japanese in Bay Area linguistic landscapes (2 units, P/NP)**  
**Postdoctoral Scholar David Malinowski**  
**Wednesday 2:00-4:00, 33 Dwinelle, CCN: 20523**

This seminar explores the power of language as it appears on nearby buildings, streets, neighborhoods and other public spaces—the so-called “linguistic landscape” of the Bay Area. In light of such realities as the nationwide English Only movement and California’s ban against bilingual education, it asks how the meanings that are written into and read from bilingual signs on the streets relate to controversial issues of societal multilingualism. Focusing on (but not limited to) public displays of Chinese, Korean, and Japanese, the seminar features a balance of on-campus discussions with class visits to locations beyond UC Berkeley. Readings and guest speakers will challenge participants to contextualize and understand what they see not just with the descriptive tools of sociolinguistics, but also through the lenses of U.S. multicultural and ethnic studies, human and cultural geography, and visual culture studies. Throughout the duration of the course, students will engage in group multimedia projects representing an issue or topic of interest in the linguistic landscape. As a class, we will dialog with other On the Same Page classes at Berkeley, where the politics of visual and linguistic representation in the Adams & Newhall Fiat Lux project are being addressed. Although fluency in Chinese, Korean, Japanese or other languages is not required, this seminar will offer numerous opportunities for students currently enrolled in a language course to enrich and extend their language study. **This seminar is part of the On the Same Page initiative.**

David Malinowski is a Postdoctoral Scholar at the Berkeley Language Center, where he conducts research on technology, place, and embodiment in language learning. With a background in Education, TESOL, and Applied Linguistics, David has fifteen years of experience in teaching, research, and service in English, Japanese and Korean language education. His publications have addressed such topics as technology and culture in language teaching, multimodality in language and literacy learning, and in the linguistic landscape, and the politics of visual representation of the English native speaker.

Faculty web site: <http://blogs.berkeley.edu/author/dmalinowski/>

**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: 28145**

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.**

Julia Bader is a Professor Emerita 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/profiles/11>



**English 84, Section 2**  
**Know Thyself (2 units, P/NP)**  
**Professor John Coolidge**  
**Monday 2:00-4:00, 201 Wheeler Hall, CCN: 28147**

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 exemplifying the remarkable variety of ways in which the oracle has been interpreted, and some of the key concepts and controversies associated with it, concluding with Socrates' bemusing declaration that "The unexamined life is not livable for a human being." **The 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. It calls for on-line discussion during the week preparatory to student-led discussion in class, as will be explained more fully in the first meeting. This seminar is part of the Connections@Cal initiative.**

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 I**  
**The United States during the Great Depression and WWII (1929-1945): Movies as Documents for the Era in Which They Were Made (2 units, P/NP)**  
**Professor Samuel Haber**  
**Wednesday 2:00-5:00, 214 Haviland Hall, CCN: 39222**

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

Americans' efforts to deal with the cataclysm of the Depression were both a great success and a great failure. While many nations, in the face of the human suffering and social dislocation of the era, turned to brutal dictatorships for deliverance, the people of the United States maintained their liberal, constitutional democracy despite serious and powerful threats. Nevertheless, the nation failed to solve the problem of widespread unemployment, and the accompanying misery and demoralization. Unemployment was alleviated only by the onset of WWII, an effect one economist called "unintended Keynesianism" (we shall try to discover what that means). World War II has been described as "a righteous war," yet some of the measures called upon for the winning of that war brought with them deep moral perplexities that are still with us today. In this class, we will draw upon movies, along with materials from our course reader, to give us some sense of what it was like to be alive during those years. We will also seek an understanding of those years that was not available to those who lived through them. As we attempt to use the movies of the time as historical documents, we will consider such questions as these: What was the power of movies? In what ways do movies help define the values of their audiences? In what ways were the movies themselves shaped by the values of their audience? Students will write a brief one-paragraph analysis of each movie they see. Those paragraphs will serve as the basis of class discussion. In addition, each student will submit a final ten-page critical summary paper, tying the course together in his or her own way. No additional reading (beyond the course reader) will be required for this paper, only additional thinking. **Enrollment is limited to a total of fifteen freshmen and/or sophomores.**

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/>

**Molecular and Cell Biology 84B, Section I**  
**The Role of History in Biology (1 unit, P/NP)**  
**Professor David Weisblat**  
**Wednesday 3:00-4:00, 106 Mulford Hall, CCN: 60226**

**This seminar will begin on Wednesday, August 29, 2012.**

Developmental biology is the study of how species progress through their life cycle (the chicken is just the egg's way of making another egg), and requires the integration of many other disciplines such as genetics, biochemistry, molecular and cell biology, physiology and mechanics. Dramatic advances in understanding the molecular mechanisms of animal development have been made using "model" organisms such as the fruitfly *Drosophila melanogaster*. But even a perfect understanding of *Drosophila* development would not constitute a complete solution to the "problem" of development, because it could not explain the dramatic differences between *Drosophila* and other animals. For this, we must appreciate that developmental processes and outcomes are the products of evolution, a historical process. In this seminar, we will flesh out these ideas and consider examples of how "nothing makes sense except in the context of evolution." **Instructor approval required. Interested students should email a paragraph or two describing their background and interests to the instructor at [weisblat@berkeley.edu](mailto:weisblat@berkeley.edu). Please use "MCB84" as subject. A list of admitted and wait-listed students will be posted at the start of classes.**

I am a Professor in the MCB Department. I became interested in natural history growing up in the Michigan countryside. During undergraduate and graduate school, I studied biochemistry and neurophysiology and came to Berkeley as a postdoc, planning to study the neurobiology of the leech. Here, however, my interests were redirected to developmental biology, and the question of how changes in developmental mechanisms have given rise to the remarkable diversity of present day animals.

**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)**  
**Dr. Maria Josephine Barrios-Leblanc, Mr. Frank Smith and Mr. Bac Tran**  
**Friday 4:00-6:00, 211 Dwinelle Hall, CCN: 83239**

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.**

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-barrios-leblanc>

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>

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>

**Theater, Dance, and Performance Studies 84, Section I**  
**Performing the Score (1 unit, P/NP)**  
**Professor Lisa Wymore**  
**Thursday 1:00-3:00, 2401 Bancroft Way, Room 10, CCN: 88074**

**This seminar will meet for seven weeks, beginning August 30, 2012 and ending October 11, 2012. The first class meeting will be in 2401 Bancroft Way, Room 10 - the Bancroft Small Studio. Locations for the remaining six meetings will be announced in the first class meeting.**

This course is a site-specific improvisation class designed for people interested in making spontaneous public performance. No movement experience is required, but students with experience moving around and through outdoor sites is a plus. Working with the instructor, students will engage with sites around campus that were photographed by Ansel Adams circa 1967 for the photography project entitled Fiat Lux. For this project Adams was charged to photograph the future of the University of California. This course is going re-examine these sites, re-stage the photographs, and re-create new pictures of the future. All sessions will be filmed and extensively photographed. Images will appear on the web site that serves the "On the Same Page" campus initiative and be used in an upcoming large-scale performance produced by the Department of Theater, Dance, and Performance Studies called the Berkeley Dance Project. Furthermore, once the scores are developed and performed via this course they will be posted online for the public to perform. Source material for this course includes referencing movement scores developed by Anna Halprin and other prominent movement artists from the late 1960's through the 1970's.

**Students of all abilities are encouraged to participate. This seminar is part of the On the Same Page initiative.**

Professor Lisa Wymore graduated with an M.F.A. in Dance from the University of Illinois, Urbana-Champaign and began her career as a dancer, choreographer, and teacher in Chicago. She was a faculty member within the Northwestern University Dance Program before joining the Theater, Dance and Performance Studies faculty at UC Berkeley in 2004. Professor Wymore is the Co-Artistic Director of Smith/Wymore Disappearing Acts; a dance-theater-performance group which brings together conceptually informed narratives with experimental technology. Her most current project involves the development of the Z-Lab UC Berkeley, which is a site for interactive real time collaboration. Visit [zlabucb.blogspot.com](http://zlabucb.blogspot.com). Recent projects include a performance at the Berkeley Art Museum on December 2, 2011 entitled "otherworld (machine)," which brought together multiple sites of production and multiplicities of bodies to create layered image collages. Ms. Wymore also directs a monthly improvisation practice for UC Berkeley students and the public to engage with the practice.

Faculty web site: <http://www.smithwymore.org/>

**Vision Science 84, Section I**  
**Comparative Eye Design: Lessons to be Learnt from Comparing Eyes of Different Animals (1 unit, P/NP)**  
**Professor Christine Wildsoet**  
**Thursday 4:00-6:00, 394 Minor Hall, CCN: 66409**

**This seminar will meet for seven weeks, beginning September 6, 2012. The remaining six meeting dates and field trip dates and 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 of the School of Optometry, where she is involved in both clinical and pharmacology teaching. She is also a member of the Vision Science group. Her research is multidisciplinary as is her research group, which includes basic scientists, clinicians and bioengineers. The focus of research in her lab is myopia (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 on the following dates: September 27, October 4, October 11, October 18, October 25, November 1 and November 8, 2012.**

This seminar examines some of the major topics/controversies in US healthcare delivery with the aim of heightening our awareness of some issues in today's health care. As background for discussion, the class will examine certain parts of the Patient Protection and Affordable Health Care Act which was signed by President Obama in 2010. 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. third-party medical coverage, factors driving the cost of medical care, strategies to control medical costs, and the role of insurance companies, pharmacological and device manufacturers, hospitals, physician groups and government in developing health care policy. The class will also examine health care delivery in other developed countries to understand how these countries manage health compared to the US.

**Enrollment is limited to ten sophomores. Students interested in the health profession or in current public debate regarding the US Health Care system should find this seminar interesting and timely.**

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**  
**Tuesday 4:00-6:00, 394 Minor Hall, CCN: 66415**

**This seminar will meet the first seven 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>

**Vision Science 84, Section 4**  
**Stewardship of the University of California Using Social Media (1 unit, P/NP)**  
**Professor Stanley Klein**  
**Tuesday 2:00-3:30, 394 Minor Hall, CCN: 66417**

**This seminar will meet for ten Tuesdays (not always consecutive), starting August 28, 2012.**

The financial and political pressures facing higher education are in the daily news. These pressures can impact student quality of life here at UCB. Less commonly discussed are what we students and faculty can do to help ease the pressures and improve the quality of life here. Last semester's seminar on a similar theme concluded that there was a communications problem between students and administration. Suggestions were made for how to use social media, such as surveys to improve communications so that student voices are better represented. The proposed seminar for next semester will continue to explore these issues. The topics to be explored can go beyond our local university, in that it is connected to the broader issue of civic education. We will ask how your UC Berkeley experience help you become a better citizen of not only of your university and state but also of the nation and the world. This topic should be especially interesting with the November election so close. A special focus of our seminar will be to examine whether the new social media can facilitate healthy social change. We will explore how to navigate the explosion of sources of information, looking at multiple points of view, to help us analyze and figure out what might be optimal actions on controversial topics. The seminar grade will be based on class participation. **This seminar will not have anything to do with Optometry or Vision Science even though that is my department.**

Stanley Klein is a professor in Optometry, Neuroscience and Bioengineering and is just beginning to explore social media. He has a commitment to finding approaches for our society to function better in meeting the challenges of the future. He believes that there is much to learn from individuals in the Berkeley community and from new social media on the topic of sustainability and the political process in general.

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