

## UCLA *Fiat Lux* Freshman Seminars Fall Quarter 2007

### ART & HUMANITIES

#### **Ancient Near East 19, Seminar 1**

*Ancient Warfare and Modern Concerns*  
Aaron Burke

This seminar will introduce approaches to the study of warfare in the ancient Near Eastern world and address the relevance of these approaches to understanding warfare in the modern world. Students will consider the causes, effects, and development of warfare over two millennia (ca. 2000 BC to AD 400) and evaluate to what extent these have actually changed.

Aaron Burke, Assistant Professor of the Archaeology of Ancient Israel and Early Judaism, is a member of the Near Eastern Languages and Cultures department. He has been involved in a number of excavations in Israel, Egypt, and Turkey. Much of his research has focused on warfare during the second millennium B.C. in the eastern Mediterranean based upon a combination of textual and archaeological sources. He is particularly interested in how ancient warfare informs us regarding the different cultural customs of ancient peoples, and how data related to warfare can be used to identify state formation and social complexity where textual sources are lacking.

#### **Architecture & Urban Design 19, Seminar 1**

*Built Women: Architects in America*  
Diane Favro

Women make up approximately 40% of the students in architecture schools, yet the profession today remains almost 84% male. Few women break the glass ceiling to enter the rarified zone of star architects; Zaha Hadid is today's token exception. Julia Morgan, a California architect who designed over 500 projects, including the famous Hearst Castle in the early 20<sup>th</sup> century, was largely forgotten until recently. Other professions such as medicine and law have more successfully integrated women and have longer histories tracing women's

involvement. Why does architecture lag behind? By examining and documenting the roles of women in American architecture, the nature of "studio culture" in architecture schools, architect-client relations, architectural writings, the canon of great buildings, and other factors, this seminar will consider some possible answers. Each student will research two or more women practitioners and enter their data into a new interactive web-based Timeline of Women in Architecture.

Diane Favro is a Professor of Architecture and Urban Design at UCLA. Her research focuses on Roman urbanism, women in architecture, and the pedagogy of architectural history. Her publications include *Streets: Critical Perspectives on Public Space* (University of California Press, 1994), *The Urban Image of Augustan Rome* (Cambridge University Press, 1996), and writings on ancient urban laws, administration, boundaries, and rituals. She is Director of the Experiential Technologies Center which creates real-time digital models of historic environments, including ancient Rome, and promotes humanities research using new technologies. Professor Favro recently ended a term as president of the National Society of Architectural Historians.

#### **Art History 19, Seminar 1**

*Italian Renaissance Portraits*  
Joanna Woods-Marsden

The concept of a portrait of a living person- as distinct from an image of the Virgin or a Saint- was invented in Italy in the 1430s. This seminar will explore the development of this new genre in the Fifteenth and Sixteenth centuries, focusing on the works of such famous artists as Piero della Francesca, Leonardo da Vinci, Raphael, and Titian. The last class will be a field trip to the J. Paul Getty Museum to consider the Renaissance portraits in its collection.

Born in Ireland, Joanna Woods-Marsden was educated at Trinity College, Dublin, the University of London, and

Harvard University. She has taught in the Art History Department at UCLA for the past 23 years. An expert in Italian Renaissance art, Professor Woods-Marsden has recently specialized in portraiture (*Renaissance Self-Portraiture: The Visual Construction of Identity and the Social Status of the Artist*, Yale, 1998). She is currently working on *Visual Rhetoric of Power and Beauty: Gendered Identity in Titian's Court Portrait*, also to be published with Yale University Press.

### **English 19, Seminar 1**

*Sequels and Prequels*

Joseph Nagy

A seminar that studies how literary works (including traditional epics and popular fiction), folkloric compositions (such as legends and ballads), and modern film and television programs (including cycles such as the Star Wars trilogies) often generate narrative chains, profoundly affecting and expanding our sense of the underlying story, the characters, and the themes. Among the questions to be considered are: Can a "sequel" be better than the "original"? Can "prequels" transform our reception of the "original," or do they distract from the original artistic vision? Are "sequels" or "prequels" sometimes variations on a theme, inviting a simultaneous instead of a serial appreciation of related works?

As a Professor in the English Department, Joseph Nagy has taught courses on folklore and mythology and popular literature at UCLA since 1978. His published work is in the areas of medieval Celtic literatures, comparative mythology, and oral tradition.

### **English 19, Seminar 2**

*Reading the Work of Visiting Famous Writers*

Mona Simpson

Students will read the work of visiting authors who will come to read at the Hammer Museum, in preparation for private classes and discussions given by the authors.

Mona Simpson is the award-winning author of novels, including *Anywhere But Here*, *Off Keck Road*, and *My Hollywood*. She is a full Professor in the UCLA Department of English and Director of the Some Favorite Writers series at the Hammer Museum.

### **French 19, Seminar 1**

*Africa in a Global Contexts*

Dominic Thomas

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This seminar will focus on contemporary politics and social issues in Africa.

Dominic Thomas is Chair of French and Francophone Studies and a Professor of Comparative Literature. He is also a faculty member in African Studies, European Studies and Global Studies. His courses and research focus on contemporary Africa and questions of racism and immigration in Europe. He is the author of *Nation-Building, Propaganda, and Literature in Francophone Africa*.

### **German 19, Seminar 1**

*What is Language and Where Does It Come From?*

Christopher Stevens

This seminar explores what language is and how linguists define and describe it. It will contrast human language with animal communication and question whether animals in the wild or the laboratory can acquire language. Another topic to be examined will be the language of our ancestors: How, when, and why did human language occur?

Chris Stevens is an Associate Professor in the Department of Germanic Languages at UCLA. His teaching and research interests include language change, language relationships, variation in language, linguistic reconstruction, and the origin of language.

### **Islamic 19, Seminar 1**

*The Case of Animals vs. Man Before King of the Jinn*

Ismail K. Poonawala

This seminar will explore a tract, translated into English, taken from a 9<sup>th</sup> century encyclopedia known as "The Epistles of the Society of Sincere Brethren and Faithful Friends." It is presented as an allegory in which animals complain to a king about the cruel treatment meted out to them by human beings, and refute man's claim of superiority over them by denouncing the rampant injustice and immorality of human society. The debate of "A satire on man and animals," in addition to theological disputes, reflects fascinating psychological and ecological themes. The fable is a socio-political criticism of Islamic society couched in animal characters to avoid offending its readers. Given the authors' theistic position, the moral concepts that emerge from the story are discussed and debated.

Ismail K. Poonawala is a Professor of Arabic and Islamic Studies in the Department of Near Eastern Languages and Cultures. His books and articles deal

with various aspects of Islam. He also teaches Contemporary Islamic Thought.

### **Jewish Studies 19, Seminar 1**

*Maimonides Between Reason and Faith*  
David Myers and Chaim Seidler-Feller

This seminar will provide students with the opportunity to encounter through close textual analysis the philosophical and ethical thought of Moses Maimonides (1135-1204), the great medieval Jewish jurist and philosopher. In particular, the seminar will focus on Maimonides' attempts to navigate between the demands of reason and faith, all the while maintaining a deep commitment to ethical probity. Much attention will be paid to his "Shemonah Perakim."

David Myers teaches Jewish history at UCLA. He is interested in Jewish thought and intellectual history.

Chaim Seidler-Feller is the Director of the Yitzhak Rabin Hillel Center for Jewish Life at UCLA. He is interested in Maimonides and many other subjects in Jewish thought.

### **Jewish Studies 19, Seminar 2**

*Pirkei Avot: Foundation of Jewish Ethics*  
Jonathan Zasloff and Chaim Seidler-Feller

Pirkei Avot is one of the central ethical treatises of the Jewish tradition, a combination of theology, moral philosophy, legal theory, and Jewish history. It is also the most accessible tractate of the Mishnah, the codification of Jewish law redacted about 200 C.E. In this seminar, we will engage in a close reading and discussion of Pirkei Avot, granting us a window both into ancient Jewish civilization and our own futures. The requirements are careful reading of the text, a willingness to discuss, debate and listen, and maintaining a sense of humor at all times.

Jonathan Zasloff is a Professor of Law at the UCLA School of Law.

Rabbi Chaim Seidler-Feller is the Director of the UCLA Hillel Center for Jewish Life.

### **Music History 19, Seminar 1**

*Rock Lyrics*

Thomas Harrison

A seminar that examines some extraordinary songs (and some lesser ones) in rock history in an effort to

understand the role that words play in a song's overall effect. How lyrics articulate the times in which they were written. How lyrics fit rhythmic, melodic, and harmonic components of musical piece and how large a part they play in song's overall appeal. How they affect us emotionally, and different listeners in different ways, and what makes a rock song great. Weekly assigned listening, two to four per class, distributed in advance. The instructor supplies half the songs; the students, one each. Each student researches a song and is responsible for presenting it in ten minutes to class. Class analysis is devoted as much to the musical structure of songs as to the words serving that structure. The instructor's choices may include works of Jimi Hendrix, Pink Floyd, Bob Dylan, Frank Zappa, Joni Mitchell, and James Brown.

Thomas Harrison, a one-time member of a rock band and now a fanatical listener, is a Professor of Italian. He specializes in 20<sup>th</sup> century literature, philosophy, and film. He also teaches Italian 46, 150, and graduate-level courses.

### **Music History 19, Seminar 2**

*Idealism in the American Musical*  
Raymond Knapp

This seminar will explore the ways in which idealism has been expressed in American musicals, both through specific songs and as a theme in particular shows. Selected musicals may include *The Sound of Music*, *Camelot*, *Man of La Mancha*, *Once More with Feeling* (the *Buffy* episode), and *Wicked*.

Raymond Knapp is a Professor of Musicology, specializing in the 19<sup>th</sup> century symphonic tradition and in the musical. He has published books on Brahms, Mahler, and the American musical.

### **Philosophy 19, Seminar 1**

*Quantum Leaps and Quicksand: How Science is Done*  
David Teplow

The media and the masses often portray science and scientists in a manner suggesting the primacy of dispassion, logic, facts, and certitude. Not! This seminar introduces students to how science actually is done and to a number of important and interesting scientific controversies. Beginning with a brief exposition of "the scientific method," the process of scientific discovery will be examined to understand how scientific "facts" are established and how these facts form the foundations for "scientific paradigms," the frameworks within which scientific exploration is done. Students will study how

conflicts between established ideas (current dogma) and novel experimental findings lead to paradigm shifts and why such shifts often are critical for advancing scientific knowledge. The analysis of the philosophical underpinnings of paradigm shifts will be accompanied by practical examples, including "mad cow disease" and the Molyneux Problem, a 300-year old (un)answered question in perception.

David Teplow received B.A. degrees in Biochemistry, and in Bacteriology and Immunology from UC Berkeley. He received his Ph.D. in molecular immunology from the University of Washington, Seattle. Dr. Teplow did postgraduate work at Caltech, Pasadena, working to develop highly sensitive instrumental methods for protein primary structure analysis and to apply these new methods to the study of proteins in the nervous system. From 1991-2004, he was a faculty member in the Department of Neurology at Harvard Medical School, where he established a research program to understand the structural biology of the amyloid beta-protein and its contribution to the pathogenesis of Alzheimer's disease. Dr. Teplow joined the faculty at UCLA in 2005, where he currently is a Professor of Neurology, Director of the Biopolymer Laboratory, and a member of the faculties of the Molecular Biology and Brain Research Institutes.

### **Theater 19, Seminar 1**

*Medicine, Arts, and Humanities*

Shelley Salamensky

Medicine is much more than simple biology. In this seminar, we will explore a wide variety of lively materials concerning patient, doctor, body, mind, and the magic of science.

S.I. Salamensky is an Assistant Professor of Theater and Performance Studies and also teaches European Studies. She holds a Ph.D. in Comparative Literature and is currently working on a book entitled, *Immaterial Science: Pain, Cure, and the Staging of Knowledge*.

## CULTURE & SOCIETY

### **Anthropology 19, Seminar 1**

*Endangered Languages and You*

Paul Kroskrity

This seminar treats the topic of language endangerment by identifying a worldwide problem and examining the possible responses that might partially rectify the situation. By some estimates, less than ten percent of the world's languages will survive beyond the present century. Global economic forces and other political economic factors are clearly responsible for a pattern of language shift that threatens most of the World's indigenous and sub national languages that are not identified with particular nation-states or have international currency. But what is the human cost of such language death, both to the speakers of these languages and to us as thoughtful world citizens? In this seminar, we will discuss the consequences of language death and what can be done to provide alternatives for those communities who seek to preserve their distinctive linguistic resources. By examining case studies of language death and language renewal, we will obtain a ground-level view of the processes that lead to language death and those that are involved with language revitalization.

Paul Kroskrity has conducted long-term field work in two Native American communities - the Western Mono of Central California and the Arizona Tewa for the past 30 years. This research has led to a body of original research on such topics as language ideology, language and identity, and language revitalization. His publications include *Language, History and Identity* (1993), *Language Ideologies: Practice and Theory* (coeditor, 1998), *Regimes of Language* (editor, 2000), and *Western Mono Ways of Speaking* (2002), a CD-ROM. Kroskrity is a Professor of Anthropology and has served as the chair of UCLA's Interdepartmental Program in American Indian Studies since 1985.

### **Anthropology 19, Seminar 2**

*Picturing the Past: Native American Pictographic Calendars*

Russell Thornton

Native American peoples of the Northern Plains developed pictographic calendars - sometimes called

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"winter counts"- by which they kept track of their past. Each year of the calendar was named after an event of that year and depicted by a picture. Generally, the histories cover the 18th and 19th centuries, but some continue to today. The seminar will examine these calendars and the Native American history they represent. Particular attention will be devoted to those of the Lakota Sioux Indians of the Northern Plains and the Kiowa Indians of the Southern Plains.

Russell Thornton is a Distinguished Professor of Anthropology at UCLA and a registered member of the Cherokee Nation of Oklahoma. He is a world-recognized authority on American Indians.

### **Anthropology 19, Seminar 3**

*Animals in Translation: An Evolutionary Approaches to Animal Thinking and Autism*

Daniel Fessler

How do animals experience the world? Adopting an evolutionary psychological approach, this seminar will examine the book *Animals in Translation*, an attempt by noted autistic author Temple Grandin to explore and explain the behaviors, thoughts, and feelings of many nonhuman animals. Along the way, we will discuss the tenets of evolutionary psychology, Grandin's theory of autism, and the insights that cross-species comparisons can provide.

Daniel Fessler approaches a variety of aspects of human behavior, experience, and physiology from an integrative perspective in which humans are viewed as both the products of complex evolutionary processes and the possessors of acquired cultural idea systems and behavioral patterns. His research focuses on a number of domains including: emotion; sex and reproduction; food and eating; violence and risk-taking; and conformity and cooperation. For a fuller treatment of his research interests, please see

<http://www.sscnet.ucla.edu/anthro/faculty/fessler/>

### **Chicana & Chicano Studies 19, Seminar 1**

*Death, Gender, and the U.S.-Mexico Border*

Alicia Gaspar de Alba

Who is killing the women of Juárez? What is killing them? What do their extremely violent deaths signify? Who is profiting from these deaths? This seminar will examine the 14-year crime wave of murders, mutilations, and serial killings of poor brown women in Juárez, Mexico, across the border from the professor's hometown of El Paso, Texas. Looking at some of the different representations of these femicides in literature and film, we will examine the social, political, economic, and cultural context in which those crimes continue unabated and unresolved, including an analysis of the crimes in the context of the North American Free Trade Agreement, and also an analysis of the politics and responsibilities of representation.

Alicia Gaspar de Alba is a Professor of Chicana/o Studies, the author of seven books, including a mystery novel on the Juarez murders, two historical novels, two collections of poetry, one collection of short fiction, and a scholarly monograph on Chicano art. She has also edited an anthology on the representation of Chicana/o sexualities in popular culture. In 2003, she organized an international conference on the Juarez femicides at UCLA that was co-sponsored by the Chicano Studies Research Center, Amnesty International, and student organizations on campus.

### **Economics 19, Seminar 1**

*Was Ibn Khaldun the "Father of Economics"?*  
George Murphy

This seminar is a survey of early Islamic economic thought and will place Ibn Khaldun's writings in the larger context of the history of economic thought and the contributions of early Islamic thinkers.

George Murphy has lectured on American economic development, Soviet Russian economic development, comparative economics, Price Theory, and the history of economic thought. He was manager of Net Assessment Studies in General Electric Tempo (GE's 'thinktank') under contract to the Office of the Secretary of Defense, and the Office of Naval Research, directing backup research work for the Salt II Treaty talks.

### **Economics 19, Seminar 2**

*Bargaining, Haggling, and Fairness Across Cultures*  
Naomi Lamoreaux

An exploration of the nature of trust and fairness in bargaining situations through the simple ultimatum bargaining game, a game that is useful for exploring how self-interested individuals behave in bargaining situations (and many others). It has been conducted in

many countries over the last decade, with the discovery that most cultures appear to have strong norms of fairness (the only exceptions are certain very primitive cultures). That is, rigorous self-interest, even in obviously commercial setting like haggling, is rare. In addition to bargaining, some time is devoted to experimental analysis of public good contributions and wage setting, and in general to exploration of extent of motives such as fairness, trust, and reciprocity versus pure self-interest in economic decisions.

Naomi Lamoreaux holds a joint Professorship with the departments of History and Economics at UCLA, where she has been a Professor since 1994.

### **Education 19, Seminar 1**

*Student Activism from the Sixties to the Present*  
Robert Rhoads

A seminar that focuses on student activism at colleges and universities in the United States. This seminar will primarily engage in comparative analyses between activism of the 1960s and contemporary forms of student activism. Students will be challenged to consider student activism and social movements from historical, political, sociological, and cultural perspectives. Two key books will be used: James Miller's *Democracy is in the Streets: From Port Huron to the Siege of Chicago* and Robert Rhoads' *Freedom's Web: Student Activism in an Age of Cultural Diversity*. The seminar will also rely on documentary films, including *February One: The Story of the Greensboro Four* and *Berkeley in the Sixties*.

Robert Rhoads is a sociologist of higher education, specializing in student movements and the democratization of colleges and universities. He has published several books on student activism and social change, including *Freedom's Web: Student Activism in an Age of Cultural Diversity*, *Community Service and Higher Learning: Explorations of the Caring Self*, and *The Political Economy of Globalization in the Americas* (with Carlos Alberto Torres). His most recent research interests center on student-initiated retention efforts, graduate student unionization, and the effects of globalization on higher education.

### **Geography 19, Seminar 1**

*The UCLA Ecosystem: Understanding Our Campus Environment*  
Hartmut Walter

Join a full day field trip of the UCLA campus featuring discussion and site visits of UCLA's energy resources, water and sewage treatment systems, transportation

planning, and planning strategies. The field trip includes an ecotour of the astonishing campus fauna and flora from all continents. Discuss how UCLA manages to squeeze more people, cars, and buildings into the smallest area of any UC campus. Learn to apply basic environmental principles to the north and south campus and ponder the question of how to enhance the sustainability of this unique ecosystem. (Seminar meets on October 4th from noon to 1 p.m.; November 15th from 5 to 7 p.m. in 1221D Bunche Hall; with a field trip on October 20th from 9 a.m. to 5 p.m.)

Hartmut Walter is a senior ecologist and bio-geographer who has been on this campus for many years teaching field courses and a suite of courses on ecosystem properties, global change and endangered species. He finds UCLA to be a fascinating ecological place and wishes to share his excitement with you. He works closely with the environmental student organization on campus trying to monitor wildlife and restore some natural habitats.

### **Geography 19, Seminar 2**

*Humboldt, Bonpland, and the Americas*

Stephen Bell

The nineteenth-century American poet and travel writer Bayard Taylor once said he went to Berlin "not to visit museums and galleries...but to speak with the world's greatest living man, Alexander von Humboldt." Humboldt's fame was based mainly on the results of an epic journey through huge portions of Spanish America between 1799 and 1804. Today, the Alexander von Humboldt Research Center in Berlin alone contains records of more than 5,000 bibliographical items on Humboldt. This seminar explores Humboldt and his ideas about the interconnectedness of physical and human phenomena through primary and secondary materials, and through film. Attention is also given to his French-born collaborator, the enigmatic botanist Aimé Bonpland, who had a forty-year career in southern South America separate from Humboldt.

Although Stephen Bell claims Catholic tastes in human geography, his main interest lies with historical geography, broadly construed. His main regional interest is Latin America and the geography of its transformation - past and present - since 1800. He has conducted extensive archival fieldwork on South America, within the region itself, and in western European collections. His direct experience has been in southern Brazil, Uruguay, and Argentina.

### **History 19, Seminar 1**

*al-Qaida and Jihadi Islam*

James Gelvin

This seminar will look at the origins, evolution, and doctrines of jihadist groups, such as al-Qaeda. We will examine the reasons for their emergence, their self-conception and stated aims, and the efficacy of the global war on terrorism.

James Gelvin is a Professor of History, specializing in the modern Middle East. He is the author of *The Israel-Palestine Conflict: One Hundred Years of War*; *The Modern Middle East: A History*; and *Divided Loyalties: Nationalism and Mass Politics in Syria at the Close of Empire*. He has written on the social and cultural origins of jihadi Islam and is currently working on a book about American-Middle East relations.

### **History 19, Seminar 2**

*Terrorists and Door Kickers: Terrorism and Counterterrorism, Past and Present*

Patrick Geary

Since 9/11, enormous attention has been focused on the ability of small, non-state organizations to inflict tremendous damage on powerful states, but such asymmetric warfare is hardly novel. This seminar looks at a variety of approaches to understanding terrorism, as well as efforts in the past and present to defeat it.

A Professor of History since 9/11, Patrick Geary is involved in assisting the U.S. Joint Special Operations University and the Naval Postgraduate School in developing approaches of teaching elite special operations officers how to face the challenge of the new terrorist environment. This seminar is a way for Professor Geary to share what he has learned with UCLA students.

### **History 19, Seminar 3**

*Diversity and Difference in Los Angeles Fiction*

Edward Alpers

Los Angeles is an incredibly diverse community that a number of creative writers have chosen to feature in their works. Using the historical background of race relations in Los Angeles, the four authors whose work will be explored in this seminar have sought to probe these important issues in several different artistic forms. In reading these works (and in one case viewing the filmed version of a play), this seminar also opens up the possibility for students to discuss these issues as they play themselves out in contemporary Los Angeles.

Although a historian of Africa whose research and writing focuses on the slave trade in eastern Africa and the African diaspora in the Indian Ocean, Professor Alpers is also an avid reader of fiction. He has lived in Los Angeles for 40 years, and is always on the lookout for works of fiction that illuminate an understanding of the larger community in which we live. It is his passion as a citizen of Los Angeles that he hopes to share with students in this Fiat Lux seminar.

#### **History 19, Seminar 4**

*The European Union: A New Superpower?*

Ivan Berend

This seminar will analyze the causes of the emergence of the European integration after World War II, and its progress from a customs union via a single market and common currency towards a joint military forces. We will also examine the permanent and gradual enlargement process from community of six to union of 27 countries. Central problems and controversies at present and the impact of European Union on history will also be examined.

Professor Berend is an economic historian who published 25 books. The most recent one is *An Economic History of Twentieth Century Europe*, Cambridge University Press, 2006. He was president of the International Committee of Historical Sciences 1995-2000. He is a member of six European Academies.

#### **History 19, Seminar 5**

*Interpreting Rumor in Africa and the Caribbean*

Robin Derby

This seminar will explore how historians and anthropologists have interpreted rumor as a form of vernacular history. As Luise White has proposed, "Rumor reveals wider terrains of belief and theory, of alternate visions of cause and effect." We will consider Whites' methodological insights about how popular narratives about vampires and other beliefs can reveal subterranean anxieties about colonial power and modernity in Africa; we will also examine popular narratives about the state and other forms of authority from Haiti and Cuba. Drawing upon these case studies, students will learn to decipher rumor based on attention to plot, allegory, metaphor, and formulaic elements such as condensed symbols. Each student will then use this methodology to interpret a rumor of their own choice, either from the UCLA student community, or an urban legend, and present their findings in class.

Robin Derby is a historian whose research has focused on modern Latin America, especially the state and popular culture in the Caribbean.

#### **Honors Collegium 19, Seminar 1**

*Civic Engagement in Los Angeles*

Laura C. Romero

This seminar will examine civic engagement in Los Angeles. Invited guest speakers from public and private sectors- including city government, corporations, and community-based organizations- discuss the impact of their work on society. By focusing on different types of civic engagement, this seminar will analyze how individuals contribute to Los Angeles and also encourage students to become civically engaged during their college careers.

Laura C. Romero is an Assistant Director of Local Government and Community Relations at UCLA. She has worked in the Office of Government & Community Relations for over seven years. As an assistant director, she serves as a liaison between UCLA and government and business and community leaders in the greater Los Angeles area.

#### **Honors Collegium, Seminar 2**

*Careers in Student Affairs*

Ronni Sanlo and Dayna Baker

This seminar will inform students about the many careers in Student Affairs and higher education through active discussion, listening, viewing, and participation. There are currently no undergraduate majors or minors from which students may learn about and prepare for the profession of Student Affairs, yet many of our student leaders are actually doing Student Affairs work. This seminar is designed to assist them with an understanding the profession and to explore possibilities for future careers. Learning opportunities as members of this class include the 2007 Western Regional Careers in Student Affairs Day at UCLA on October 19th as well as the regional conference of the National Association of Student Personnel Administrators in November.

Ronni Sanlo is the Director of the UCLA Lesbian, Gay, Bisexual, and Transgender Campus Resource Center, a lecturer in the Graduate School of Education and Program Coordinator, CLA GSEIS Higher Education & Organizational Change (HEOC) and holds an M.Ed in Student Affairs. Her three books, *Working with LGBT College Students: A Handbook for Faculty and Administrators*; *Unheard Voices: The Effects of Silence on Lesbian and Gay Educators*; and *Our Place on*

*Campus* are published by Greenwood Press. She is the originator of the award-winning Lavender Graduation, an event that celebrates the lives and achievements of LGBT students. She lives on the UCLA campus as a member of the Faculty-in-Residence program. Dayna Baker holds an M.S. in Education and Student Affairs Administration from Indiana University Bloomington, and is a Resident Director at UCLA. She implemented a partnership in service-learning with a housing community in South Los Angeles, and administers a course in student development which new Resident Assistants through the UCLA Graduate School of Education.

### **Honors Collegium 19, Seminar 3**

*LGBT is Not a Sandwich: Straight Talk on the Effects of Silence on Sexual and Gender Minorities in Los Angeles*  
Ronni Sanlo and Suzanne L. Seplow

This seminar informs students through active discussion and participation about the myriad ways in which people and communities are affected by issues of sexual orientation and gender identity. Topics include the history of sexual orientation issues, health and legal issues of sexual and gender minority people, sexual/gender identity development, and legal issues directly affecting UCLA and Los Angeles.

Ronni Sanlo is the Director of the UCLA LGBT Campus Resource Center and a lecturer in the Graduate School of Education. Her three books - *Working with LGBT College Students: A Handbook for Faculty and Administrators*; *Unheard Voices: The Effects of Silence on Lesbian and Gay Educators*; and *Our Place on Campus* are published by Greenwood Press. She is the originator of the award-winning Lavender Graduation, an event that celebrates the lives and achievements of LGBT students. She lives on the campus of UCLA as a member of the Faculty-in-Residence program.

Suzanne L. Seplow, Ed.D., is a graduate of the GSEIS Educational Leadership program at UCLA. Her focus is on maintaining living/learning communities that foster a positive impact on student learning. She specializes in learning communities, environmental influences, and student development theory.

### **Honors Collegium, Seminar 5**

*The Geography of Fire in California*  
Larry L. Loehner

Fire has been a natural part of the California landscape for thousands of years. Sparked by lightning, it's burned through almost all of the state's ecosystems, sometimes

becoming an essential part of community establishment and renewal. Fire distribution is influenced by numerous factors including fuel sources, ignition sources, and environmental variables such as topography, climate, and weather. As humans began to occupy natural fire areas, the pattern, scale, and distribution of fire began to change. In the last three centuries, fire has evolved from a beneficial natural phenomenon to one that creates massive social disruption and incurs enormous human costs. In this seminar, we will explore the role of fire in California's landscape, factors involved in its natural distribution, human response to fire, the social cost of conflagrations, and prospects for future modification of fire regimes.

Larry Loehner is an Associate Vice Provost and Director of the Office of Instructional Development at UCLA. He received his B.S., M.A., and Ph.D. degrees in Geography. His interest in fire as a natural hazard is partly informed by eleven years as a firefighter with the US Forest Service, and he was among the first investigators of the "Urban-Wild land Interface." His current research interests include applied management in landscape restoration, and the response of chaparral communities to human impact.

### **Human Complex Systems 19, Seminar 1**

*The Strange New Science of Chaos*  
Dwight Read and John Bragin

If a butterfly flaps its wings in China, can its motion really cause a hurricane elsewhere in the world? Is the stock market random, or can you make money by modeling its behavior? Do populations of plants, animals and humans change without order, or are they patterned? What happens when the regular rhythm of the human heart breaks down? Chaos theory addresses these questions. Chaos is everywhere in physical, biological, and social systems. And the computer is a key factor in understanding chaos. Introductory readings will be brought to life by easy-to-use computer simulations run on Macs and PCs. Students will explore what-if scenarios by changing various program inputs with simple on-screen controls that require no programming skills. Students will also learn basic techniques to create their own simulations.

Dwight Read has a Ph.D. in Mathematics. He is a Professor of Anthropology, and chairs the Human Complex Systems Program. Dr. Read has been a consultant and author of numerous papers and conference presentations, and an advisor and editor for anthropology and archaeology journals. His current research focuses on the integration of mathematical reasoning with anthropological theorizing, the

application of statistical modeling to hominid evolution, the development of a culture-based theory and method of classification in archaeology, and the formal analysis of kinship systems

John Bragin is a Research Specialist in Complex Systems in the Anderson School and Academic Coordinator of the Human Complex Systems Program. He received a B.A. in 1965 cum laude from UCLA with a major in Motion Pictures and a minor in Art History. In 1994, he returned for non-degree graduate work in Evolutionary Biology and the Philosophy of Science. He is an award-winning producer-director of films, videos, and exhibitions in the areas of cultural history and science and technology.

### **Information Studies 19, Seminar 2**

*"Just Google It": What It Is and When It's Appropriate*  
John Richardson

Google, the world's most popular search engine, indexes more than eight billion Web pages. This seminar explores the rise of the Internet and the World Wide Web as an important, if not authoritative, source of information for facts, news, shopping, and geography. Description of Google's features, compared and contrasted with other Web resources. Exploration of the evaluative criteria including issues of authority, believability, and trust.

For Professor Richardson's Bio, please see:  
[Purl.org/net/jrichareson](http://Purl.org/net/jrichareson)

### **Law 19, Seminar 1**

*Peace, Nonviolence, and Law*  
Kenneth Graham

This seminar will examine the question of whether the law furthers peace or violence. This will require us to consider political-economy, court decisions refusing to grant First Amendment protection to nonviolent protests or failing to enforce the Declaration of War Clause, and the role of the media and the military in creating a culture of violence that leads to such things as drive-by shootings, domestic violence, and the casual and causal relationship between sex and violence. Since no one has easy answers to these questions, including the instructor, students will have to come up with their own.

Kenneth Graham has taught at the UCLA Law School since 1964, primarily subjects such as evidence and civil and criminal procedure. He served as a prosecutor in the Ventura County District Attorney's Office and as a consultant to the Hawaii Penal Code Revision Project.

He is an author of 15 volumes on the law of evidence. He was the 1987 UCLA's Distinguished Teaching Award recipient. For a more detailed biography, please visit the UCLA Law School's website.

### **Law 19, Seminar 2**

*Financing War*  
Steven Bank

Significant changes in the U.S. tax system over our history have emerged from the crucible of war. Financial exigencies of fighting war combine with a sense of need for shared sacrifice to produce momentum for reform focused on increasing progressivity of a tax system and spreading the burden of wartime expenses across populations. Former House Majority Leader Tom DeLay made a stunning declaration: "Nothing is more important in the face of war than cutting taxes." Exploration of history of wartime finance in the U.S., examining the major innovations in taxation and bond finance that occurred during Civil War, World War I, World War II, Vietnam, Korea, Gulf War, and recent conflict in Iraq. Discussion of how war has influenced government finance. This seminar considers the extent to which recent tax cuts may or may not be unprecedented and their possible causes.

Steven Bank teaches tax and business law courses and is Faculty Director of the UCLA Program in Business Law & Policy. Much of his research focuses on the history of taxation in the United States between the Civil War and World War II. He is a co-author of the forthcoming book, *War and Taxes: Is there a Tradition of Wartime Fiscal Sacrifice?*

### **Law 19, Seminar 3**

*Political Trials of Visionaries, Reformers, and Revolutionaries*  
Frances Olsen

This seminar examines the various roles of law in promoting or impeding social change through the lens of political trials. We will learn about the origin and potential of jury nullification, the uses of courtroom by revolutionaries as political platform, and recent government efforts to suppress these traditional outlets of political expression.

While working as an attorney, Frances Olsen represented a number of political activists, including the Native Americans who staged the last major uprising against the federal government at Wounded Knee, South Dakota in 1973. She has been a Professor of Law at UCLA since

1984. For the past several years she has been teaching a course on civil disobedience to law students at UCLA. She has lectured on civil disobedience and related topics on every continent except Antarctica and recently taught a full course on civil disobedience at the University of Tel Aviv.

### **Management 19, Seminar 1**

*Microfinance: Enabling the Poor to Escape Poverty and Manage Risks*

Bhagwan Chowdhry

In recent years, a set of unusual institutions labeled “microfinance institutions” have been increasingly visible and influential in helping the poor of the world who have been excluded by the formal banking sector fight poverty and manage life uncertainties by offering financial services to them. These services include loans as small as \$100, savings products, and insurance products to manage life risks caused by death, illness or weather uncertainties. The goal of microfinance is to reach billions of people who live below the poverty line. What are the difficulties in achieving this goal? What creative and innovative solutions can surmount these difficulties? This seminar will seek to understand the issues involved.

Bhagwan Chowdhry is a Professor of Finance at UCLA where he has held an appointment since 1988. He has also taught at the University of Chicago, University of Illinois at Chicago, the Hong Kong University of Science and Technology, and the Indian School of Business. He received his Ph.D. in 1989 from the Graduate School of Business at the University of Chicago. His research interests are in international finance and corporate finance and strategy.

### **Political Science 19, Seminar 1**

*U.S - China Relations at the Crossroads*

Richard Baum

This seminar examines the post-Vietnam War development of US-China relations from a state of near-total antagonism to one of "constructive engagement." The goal of this seminar is to understand how the rise of China affects the long-term strategic priorities and interests of these two great powers. Special consideration will be given to the question of possible future conflict between them.

Richard Baum has been writing and teaching about Chinese politics and foreign relations at UCLA since 1968. He has a Ph.D. from UC Berkeley and is an internationally recognized authority on Chinese

domestic and foreign policies. His books include: *Burying Mao: Chinese Politics in the Age of Deng Xiaoping*; *Reform and Reaction in Post-Mao China*; and *China's New Technological Revolution*. He is currently finishing work on his latest book, *Confessions of a Peking Tom*.

### **Political Science 19, Seminar 2**

*Diplomacy and Modern Globalization*

Kantathi Suphamongkhon

What is it like to be a diplomat? The world has moved from the Cold War era into the age of Globalization. This seminar will examine the nature of modern diplomacy and will survey the diverse subjects that a modern diplomat must tackle. This includes the examination of traditional threats to national security as well as non-traditional ones such as international terrorism, the environment and other human security issues. The relevance of economic issues to modern diplomacy will be addressed. The seminar will also look into the art of negotiations. In addition, students will be introduced to the subject of international law as it relates to the conduct of international diplomacy. Case studies on current events around the world, such as the Middle East, Iraq, the Korean Peninsula, and the new balance of power in the Asia Pacific region will be used to enhance students’ analytical skills and understanding.

Dr. Kantathi Suphamongkhon is the 39<sup>th</sup> Minister of Foreign Affairs of the Kingdom of Thailand (2005-2006). He holds a Ph.D. in International Relations from the University of Southern California (USC), a Master of Arts degree in International Studies from American University in Washington, D.C. His Bachelor of Arts degree in Political Science was obtained at the University of California at Los Angeles (UCLA).

He has been Chairman of the Human Security Network. He has also served as Thai Trade Representative and Advisor to the Prime Minister of Thailand on Foreign Affairs. In addition, he has been a Member of the Thai Parliament for two terms. Before politics, he served as a career diplomat in Thailand’s Ministry of Foreign Affairs for 10 years, 4 of which were spent as a representative of Thailand to the United Nations in New York.

Dr. Suphamongkhon has also worked in the private sector as Director of the Post Publishing Public Company, which publishes the Bangkok Post and the Post Today newspapers. He is currently the Chairman of Kanta Enterprise International, which focuses on international real estate development.

He has taught various subjects including, International Law, International Organizations, Political Science, Theories and Practices in International Relations, International Trade and Foreign Policy, Negotiations and Foreign Policy, International Politics and Globalization, Foreign Policy of Thailand, Southeast Asian Studies, Foreign Policy Decision-Making as well as Psychology and Foreign Policy.

### **Public Policy 19, Seminar 1**

*Rethinking National Security*

Albert Carnesale

National security is a prominent concern in the minds of Americans and is a dominant issue in American politics. The items leading the national security agenda are the insurgencies in Iraq and Afghanistan, the acquisition of nuclear weapons by North Korea and, potentially, by Iran and others, and the persistent threat of international terrorism. This seminar will address two fundamental questions: What are the near-term threats to America's vital interests; and What strategies are available to meet the challenges the U.S. is likely to face in the decade ahead.

Albert Carnesale is UCLA Chancellor Emeritus (1997-2006) and holds professorial appointments in the Departments of Public Policy and Mechanical and Aerospace Engineering. His research focuses on issues in international affairs and security, with emphasis on controlling weapons of mass destruction and on the implications of technological change for foreign and defense policy. He has represented the U.S. Government in high-level negotiations on defense and energy issues, and currently serves as a member of the FBI Director's National Security and Higher Education Advisory Board.

### **Sociology 19, Seminar 1**

*Zen and the Art of Mindfulness: Meditation and Attention in Everyday Life*

Peter Kollock

This seminar examines Zen Buddhism, not in the context of religion, but as a system of social psychology that has evolved over 2600 years. We will examine Zen Buddhist practices for developing cooperation and peace in one's self and one's relationships. A key element of the seminar will be a weekend retreat at a Zen Buddhist monastery in Southern California, November 9<sup>th</sup> until the 11<sup>th</sup>.

Peter Kollock is a Professor of Sociology at UCLA. His research focuses on cooperation, trust, and risk in

groups. He studies a wide range of situations in which group members gain by cooperating but where a temptation to behave selfishly exists, examining the factors that encourage or discourage the emergence of cooperation, community, and trade. His recent work has concentrated on studies of online communities and markets. He received UCLA's Distinguished Teaching Award in 1992.

### **Sociology 19, Seminar 2**

*Making Societies: Historical Construction of Our World*

William G. Roy

The theme of this seminar is an examination of things that we take for granted as 'natural,' but which are actually historically constructed. These include perception (time and space), and hierarchy (race and gender). The way we experience time and space, relate to each other in terms of social characteristics, and organize our affairs is often assumed to lie outside of social explanation, either in physical nature, biological foundations, or human nature. This seminar will try to find the social explanations for these things by probing the variation among different societies. In doing so, our own society's assumptions will be laid bare.

William Roy is a Professor of Sociology, specializing in comparative-historical sociology. He has won teaching awards from UCLA and the American Sociological Association and is the author of two books and numerous articles. His current research concerns how social movements have used American folk music to bridge racial boundaries

### **Urban Planning 19, Seminar 1**

*Sprawl: The American Dream, or Nightmare?*

Randall Crane

What is sprawl, is it good or bad, and what should be done about it? Many urban areas, in the U.S. and elsewhere, are growing rapidly at their peripheries, with new residential, commercial, and industrial developments gobbling up undeveloped land, or smaller towns, often at a startling pace. Even some cities that are losing population are expanding physically as families shrink in size, generating more households per capita, and the demand for space continues to rise with income. Some evidence indicates that this pattern of development is problematic for a host of reasons. Land consumption for urban development is particularly a concern when converted from potentially more valuable land uses, including land devoted to scenic, recreational, and habitat purposes. More city traffic jeopardizes our health, our sanity, and our pocketbook, as well as the

environment. There is much to learn about- first, how to think about how communities form and spread and, second, what to do about it.

Randall Crane is a Professor of Urban Planning and Director of Undergraduate Programs in the School of Public Policy & Social Research. His research interests include urban environmental and development problems in the U.S. and abroad, with a focus on behavior/built environment interactions. Among his current projects, he is studying the causes and impacts of "sprawl" and is co-author with Marlon Boarnet, *Travel by Design: The Influence of Urban Form on Travel* (Oxford, 2001).

### **Women's Studies 19, Seminar 1**

*Sexual Harassment Law and Policy*

Christine Littleton

What is sexual harassment? Why is it wrong? Who is harmed by it? What can be done to stop it? What's the difference between flirting and sexual harassment? Can men be sexually harassed? These and other questions will be addressed in this seminar, and some of the answers may surprise you.

Christine Littleton is a Professor in the UCLA School of Law and chairs the Women's Studies Program. She teaches both law and women's studies courses. As a lawyer, she has worked on cases involving sexual orientation discrimination, affirmative action, disability rights, and sexual harassment.

### **World Arts & Cultures 19, Seminar 1**

*Creating Dance/Theater in the Professional World*

David Rousseve

This seminar will follow the process of creating a professional dance/theater work from conception to touring. Focusing on David Rousseve's new full-length work "Saudade" (currently under development for international touring), the seminar will cover all aspects of the artistic and professional processes. The seminar will also cover creative development tools used to generate text and movement for a full-length work and compositional tools for composing a work that layers and braids speaking and moving into an original whole. It will also examine the realities of marketing, booking, and touring, giving students methods that can be used in the current professional world.

David Rousseve, a choreographer, writer, director, and performer, is a 2004-2005 Guggenheim Fellow. A magna cum laude graduate of Princeton University, he is

currently Professor of Choreography and former Chair of UCLA's Department of World Arts and Cultures. Rousseve is Artistic Director/Choreographer for REALITY, a multi-racial dance/theater company that grew to become one of the most important voices in contemporary American dance.

## SCIENCE & TECHNOLOGY

### **Astronomy 19, Seminar 1**

*The Invisible Universe and Life in the*

*Solar System: From Alpha to Omega*

David B. Cline

A non-mathematical discussion of the current understanding of the universe- the dark universe that is mostly made of invisible dark energy, dark matter, and neutrinos. We will present the evidence for these components of the universe and then show how the invisible dark matter led to the formation of galaxies and stars. Some stars, in turn, exploded, producing the neutrinos and heavy elements that constitute the materials from which life originates, and complex molecular systems were also likely formed. We will trace the distribution of these heavy elements to a period five billion years ago. They also were incorporated into organic materials that eventually lead to the origin of life on Earth. We will sketch out how this may have happened. The seminar finishes by a discussion of the search for life elsewhere in the solar system that may involve the very same organic molecules.

David Cline received his Bachelor of Science in Physics (cum laude) from Kansas State University and his Ph.D. in experimental elementary particle physics from the University of Wisconsin - Madison in 1965. He became an Associate Professor of Physics at the University of Wisconsin - Madison in 1967 and Professor of Physics in 1968. He was an A. Sloan Fellow between 1967 and 1969. He helped start the FNAL and CERN Collider projects with C. Rubbia and others in 1976-80. Dr. Cline joined the faculty at UCLA in 1986, holding a Professorship in the Department of Physics and Astronomy. He initiated the UCLA Center for Advanced Accelerators in 1987 and currently serves as its director.

### **Atmospheric and Oceanic Sciences 19, Seminar 1**

*Space Weather: Impact of Solar Activity on the Earth*

Richard Thorne

The Sun is a variable star, which periodically develops magnetic active regions leading to solar flares and coronal mass ejections. Such solar disturbances lead to dramatic changes in the Earth's environment, which affect life and modern technology. Important effects such as temporary decreases in our protective ozone

layer, enhanced radiation hazards to spacecraft and high altitude aircraft, disruption to radio communication systems and the GPS navigation system, and potential links to long term climate change, will be discussed in this seminar in elementary terms suitable for students with a high school science preparation.

Richard Thorne has been active in space research for over 40 years. His interests are in understanding the formation of the radiation belts of magnetized planets, and their impact on the atmosphere. He is currently involved in the NASA Living With A Star spacecraft missions to study the origin of electron acceleration in the Earth's radiation belts, and the JUNO mission to Jupiter.

### **Bio-Engineering 19, Seminar 1**

*Truth and Questions in Orthopaedics*

Howard Winet

A discussion of topics of current intellectual importance in orthopaedics, taught by faculty members in their areas of expertise. Demands for solutions to difficult fracture healing problems have spawned a wealth of orthopaedic devices and materials and a rush to application has outrun scientific evidence for their efficacy. Using a class reader, lectures (including a guest surgeon and an engineer), and discussions, we will explore how needs for scientific rigor and clinical demands have conflicted historically, beginning with Bacon's separation of religion from science, through the entrance of science into medicine in the late 1700s. The seminar will end with current FDA requirements for safety and efficacy of orthopaedic implants.

Since 1998, Howard Winet has held an Adjunct Professor appointment in the Department of Orthopaedic Surgery at UCLA and has collaborated with many faculty in the Biomedical Engineering IDP and Department of Bioengineering. He has been involved in developing and teaching core courses in biomechanics and biomaterials for the graduate biomedical engineering and undergraduate bioengineering programs. In addition, Dr. Winet has been serving as advisor and co-advisor of Ph.D. committees and has published over 10 book chapters, given over 90 presentations, taught over 15 courses, and given numerous lectures on topics in neurophysiology, biophysics, orthopaedics,

biomechanics, and biomaterials at CalTech, Southern Illinois University, USC, and UCLA.

### **Chemistry and Biochemistry 19, Seminar 1**

#### *Serendipity in Science*

Herbert D. Kaesz

An inquiry into unexpected discoveries in science that have had significant impact on society and an analysis of the circumstances which brought these about. Serendipitous, i.e., fortuitous, observations become significant only where the observer can recognize or correctly interpret the discovery, as in the case of the mold metabolite penicillin discovered by Fleming in 1928, giving rise to a new class of antibiotics. Discoveries in medicine, which derive from an indigenous oral tradition prior to their entry into Western European practice, will also be discussed. A librarian will address the seminar regarding use of library and computerized search facilities.

Herbert Kaesz received an A.B. from N.Y.U. and his M.A. and Ph.D. degrees from Harvard University, beginning his career at UCLA in 1960. His research interests are in the field of organometallic chemistry. He received the Tolman Medal from the Southern California Section of the American Chemical Society, has held two foreign fellowships, one from the Japan Society for the Promotion of Science, and one from the Humboldt Foundation (Germany), and has twice held the post of Professeur Invité in France. Professor Kaesz received the American Chemical Society Award for distinguished Service in the Advancement of Inorganic Chemistry.

### **Chemistry & Biochemistry 19, Section 2**

#### *Chemistry as a Foundation for Research*

Laurence Lavelle, Eric Scerri, Herbert Kaesz, Alex Levine, and James Gimzewski

This seminar will illustrate the important role that all branches of chemistry play in research. Creative research occurs when chemistry, physics, biology and engineering overlap. Five faculty from the UCLA Department of Chemistry and Biochemistry will discuss a topic that can be linked to fundamentals covered in first-year chemistry courses.

Laurence Lavelle holds an M.A. and Ph.D. in Molecular Biophysics from Princeton University. He is a member of the American Association for the Advancement of

Science, the American Chemical Society, the American Physical Society, the Biophysical Society, Sigma Xi, The Royal Society of Chemistry, and the American Federation of Teachers.

Eric Scerri, has been a lecturer for the past 7 years in UCLA's Chemistry and Biochemistry Department, teaching general chemistry classes, as well as Honors Collegium classes in History and the Philosophy of Science. He is the author of over one hundred peer-reviewed articles in *History* and the author of *The Periodic Table: Its Story and Its Significance*.

Herbert Kaesz received his M.A. and Ph.D. from Harvard University where he was twice awarded for outstanding teaching assistantship. He began his career at UCLA in 1960 and his principal teaching assignments have been in introductory chemistry, general chemistry, structural inorganic chemistry, organometallic chemistry and the inorganic chemistry graduate seminar.

Alex Levine received baccalaureate degrees in physics and mathematics at UCLA, then attended graduate school here. While a graduate student he received a Phi Beta Kappa graduate scholarship, the Julian Schwinger Graduate Fellowship, and an AT&T Bell Laboratories Graduate Fellowship. This winter he will be a co-organizer of an international workshop on the future of microrheology, to be held at the California Nanosystems Institute.

James Gimzewski is a Professor of Chemistry at UCLA and Director of the Nano Pico Characterization Lab of the California NanoSystems Institute. He received his Ph.D. in Physical Chemistry from Strathclyde University, Scotland in 1977. Prior to joining the UCLA faculty, he was a group leader at the IBM Zurich Research Laboratory, where he did research in nanoscale science and technology for more than 18 years.

### **Community Health 19, Seminars 1 and 2**

*So Cosmo Says You Are Fat? I Ain't Down With That: Nutrition and Body Image Life Skills*  
Pamela Viele and Jill DeJager

This seminar will examine the personal, social, and environmental factors that influence college students' eating behaviors and body image through the lens of social learning theory and PRECEDE model. Students will learn to apply these theories in developing an

individualized plan to eat well, be active, and feel good about their bodies. Students will also learn practical skills with application to stress management, positive body image, and nutrition as they participate in critical evaluation of popular diets, healthy body weights, sports nutrition, fitness, supplements, muscle builders, media body ideals, and self-destructive thoughts. The seminar will present this subject matter in an academically rigorous manner, while simultaneously promoting positive developmental outcomes.

Pamela Viele, Ph.D., MPH, holds dual appointments at UCLA as the Director of Health Education in the Arthur Ashe Student Health & Wellness Center and as a faculty Lecturer in the School of Public Health. She joined the UCLA staff in 1976. Her professional and teaching activities have focused on helping students to manage the challenging transitional issues of the college years, including coping with stress, managing emotions, and developing social and cultural competence.

Jill DeJager, MPH, RD, is a registered dietitian with a background in exercise physiology and public health. In addition to her current role as UCLA's Nutrition Education Coordinator, she is an Adjunct Professor of nutrition at Mount San Antonio College.

### **Community Health Sciences 19, Seminar 3**

*Making the Most of College: Fulfilling Your Potential*

Pamela Viele and Kristen McKinney

Students enter college with multiple expectations about what the experience will be like for them. Some of these expectations may not be realistic, and some may remain unrealized because the bewildering array of options available make it difficult for students to create a cohesive set of activities that will help them reach their goals. This seminar will examine ways in which students can get the most out of college, considering the concept of student learning and development from both an institutional and individual perspective. The seminar will present theory and research about making the most of college and what challenges and supports exist. Students will consider the question of what can institutions do to support and encourage development, as well as reflect on their own roles and expectations with regard to utilizing the resources available at the institution to achieve their potential, particularly how to connect their in-class and out-of-class experiences.

Pamela Viele, Ph.D., MPH, holds dual appointments at UCLA as the Interim Executive Director of Student Development and as a Lecturer in the School of Public Health. Since joining the UCLA staff in 1976, her professional and teaching activities have focused on helping students to manage the challenging transitional issues of the college years, including coping with stress, managing emotions, and developing social and cultural competence.

Kristen McKinney, Ph.D. is the Assistant Director for Student Development Health Education. She has also served as a lecturer in the Graduate School of Education and Information Studies, teaching undergraduate courses for the Education minor. Her ongoing research and professional interests center on student development, particularly identity development as well as aspects of mental and physical health.

### **Dentistry 19, Seminar 1**

*Intellectual Property*

Kathryn Atchison and Michael Shockro

From the early days of trade along the ancient China silk road to current debates at the World Trade Organization; from the rights of performers in the entertainment industry to the fights among titans of high technology; from the discoveries in early laboratories to the frontiers of the internet, rights to intellectual property (“IP”) have been at the core of creative development. IP assets are a cornerstone of our country's position in today's world market, and are at the cutting edge of tomorrow's technology. This seminar will explore the history of developing IP concepts, current IP issues, variations in the protection for patents, copyrights, trademarks, trade secrets, geographic differences, and even the development of gender rights for indigenous populations.

Prior to becoming Vice Provost at UCLA's Office of Intellectual Property Administration, Kathryn Atchison was a Professor in the UCLA Department of Dentistry.

### **Earth and Space Sciences 19, Seminar 1 (Cancelled)**

*The Geological Beauty of the Yosemite Valley*

An Yin

The Yosemite Valley not only exhibits extraordinary natural beauty, but is also a site of geologic excitement. The morphology of the valley was shaped by glacier

flow during the last ice age; the majestic rock cliff is made of hard granite produced by the subduction of an oceanic plate beneath North America over tens of million years, while domal mountaintops were generated by magma cooling and surface erosion. This seminar consists of two lectures and a three-day fieldtrip (Friday to Sunday) to the valley and its adjacent areas, including two nights of camping in the park's tent cabins. The first lecture will be given before the field trip, covering the basic concept of plate tectonics of California, ice age, and glacier flows. Light hiking will also be accompanied with the field trip.

An Yin is a structural geologist with research interests in plate tectonics and its consequences in generating large mountain belts on the Earth. She has been working extensively in the Himalayas and Tibetan plateau in the past two decades.

### **Earth and Space Sciences 19, Seminar 2**

*Signs of Glaciers Past: Eastern Sierra and Tuolumne*  
Jonathan Aurnou

Since the time of their uplift, the Sierra Nevada Mountains have been carved and re-carved by glaciers. We will spend a weekend studying geological records of past ice ages along the eastern front of the Sierras and Tuolumne Meadows area of Yosemite National Park. Examination of massive glacial moraines of Convict Lake and a hike to the top of the 11,004-foot Gaylor Peak:

([http://www.summitpost.org/show/mountain\\_link.pl/mountain\\_id/1829](http://www.summitpost.org/show/mountain_link.pl/mountain_id/1829)) to survey an array of glacial landforms. Each student will become an expert on a topic relevant to the trip and help to educate the class when we arrive at the field area that pertains to their expertise. NOTE: The strenuous hike up Gaylor Peak requires that all participants be in very good physical condition.

Jonathan Aurnou studies geophysical and planetary fluid dynamics. His laboratory work focuses on planetary cores dynamics and how core flows generate planetary magnetic fields. He is also carrying out computer simulations of the large-scale winds that exist in the deep atmospheres of the giant planets. Glaciers, which do not exist in planetary cores or the atmospheres of Jupiter or Saturn, have always been his passion.

### **Honors Collegium 19, Seminar 4**

*The Rise and Fall of a Blockbuster Drug*  
Mike Gresser

The focus of this seminar will be on therapeutic drugs, not recreational drugs. Pharmaceutical and biotechnology companies constantly strive to create better therapeutic agents intended to improve the lives of patients and generate profits for themselves. It is very challenging to make a drug which has a sufficiently favorable benefit to risk ratio in order to justify making it available to patients. Companies that make such drugs have to promote them vigorously to ensure that they will be prescribed and purchased, while making clear the risks associated with using the drug. We will discuss the roles and responsibilities of companies which create and market drugs, the regulatory agencies which decide whether to approve them, the physicians who decide whether to prescribe them, and the patients who decide whether to take them. At each level, decisions concerning risk and benefits should be made. Various drugs will be discussed, with an emphasis on the cyclooxygenase-2 inhibitor Vioxx.

After earning a Ph.D. in Biochemistry at Brandeis University and doing postdoctoral training at UCLA, Mike Gresser worked as a researcher and teacher at Simon Fraser University, and then as a researcher in the pharmaceutical industry at Merck Frosst Canada where he was Executive Director of Biochemistry and Molecular Biology. Later, he worked at Amgen, Inc. where he was Vice President of Research. Currently, he is a visiting scholar at UCLA and works as a consultant to the pharmaceutical and biotechnology industries with Clarity Therapeutics Consulting.

### **Medicine 19, Seminar 1**

*So, You Want to Be a Doctor?*  
Oleg Melamed

Much is known about the challenges in medical practice today where invisible barriers separate patients from their doctors- the lack of insurance, financial disparity, and language and cultural bias are just some examples. Inconsistencies in doctors' training may present additional problems for patients seeking treatment. Students participating in this seminar will take a crack at researching and discussing in class some of the biggest issues in health care today. Current events, journal articles and visual media, as well as concerns raised in class, will serve as the foundation for all discussion. The gained knowledge will increase awareness for future physicians, as well as help students decide if they should consider a career in medicine.

Oleg Melamed is a faculty member at the David Geffen School of Medicine at UCLA. An internist who practices inpatient and outpatient medicine at the Olive View - UCLA Medical Center, he supervises medical residents and medical students.

### **Medicine 19, Seminar 2**

*Introduction to Surgery*

Mary Maish

This seminar is designed to introduce students to the practice of surgery. There will be five 2-hour sessions, the first hour of which will be devoted to an interactive session where students will learn the basics of surgery, including basic physical examination skills, surgical anatomy, physiology, and pathology. In addition, students will gain an understanding of operating room etiquette, and be given the opportunity to work with a variety of surgical instruments and new technology. The second half of the class will be devoted to a lecture series given by surgeons in a variety of different surgical subspecialties.

Mary Maish is Assistant Professor of Surgery at UCLA's School of Medicine. She has an active clinical practice in thoracic surgery, including diseases of the lungs and esophagus. She is the director of the UCLA Center for Esophageal Disorders and the Associate Program Director for the Cardiothoracic Residency. She is an avid educator and surgeon and previously taught the *Fiat Lux* seminar, *Medicine in the Arts*.

### **Molecular, Cell, and Developmental Biology 19, Seminar 1**

*The Joy of Biology*

John Merriam

"The sheer intellectual joy of finding out how life works is really cool. This is the greatest intellectual revolution and it is happening right now." (Susan Lindquist, interviewed in the New York Times, 4/24/07) The revolution comes from technology which makes direct experiments possible, but also brings controversies and concerns. The intellectual joy is available to everyone who wants to find out what's going on or keep up life-long learning: The New York Times Science section is a premier way to get in the habit of reading science developments particularly, but not limited to, life and medical sciences. Once per week, we will review the science section and discuss articles of interest and

identify topics for further exploration on the internet. Coffee will be served.

John Merriam is a Professor in the Molecular, Cell and Developmental Biology Department. His main teaching interest is in the area of human genetics and introductory genetics. His research uses *Drosophila* as a model organism to determine the function of specific genes.

### **Physics 19, Seminar 1**

*Deep in the Heart of Antarctica: Science in the Heroic and Modern Ages*

David Saltzberg

Antarctica is the only continent reserved entirely for peace and science. At once the coldest, windiest, driest place on Earth, Antarctica serves science as a modern international laboratory providing a unique window on Earth and even Space. From the diaries of the early Antarctic explorers to modern newspaper articles, we will investigate science in Antarctica. Although this course is listed as Physics 19, we will explore scientific results from Antarctica equally from the fields of Biology, Geology, Environmental Science, Astronomy, and others. If there is enough class interest, we can emulate Antarctic field work by arranging an (optional) camping trip above the snow line in the local mountains.

David Saltzberg has been a Professor in the UCLA Department of Physics and Astronomy for 11 years. His research interests in astrophysics have taken him to Antarctica for two research campaigns where he has established temporary remote field camps on the Ross Ice Shelf and on the ice sheet of the Polar Plateau.

### **Physiological Science 19, Seminar 1**

*The University: What Is It and Why Are We Here?*

James Tidball

The origin of the university in the modern world lies in highly structured institutions in medieval Europe where students pursued formal learning in the arts and sciences, law, medicine, or theology. In the nearly 900 years since that origin, the structure of the university has remained amazingly intact, and now serves as the model for higher education throughout the world. However, the role and rationale for the university in Western society have begun to evolve rapidly in recent years in response to changing economic and social expectations. In this seminar, we will study and discuss the university's

origins, its modern functions, and whether or not the university and society serve one another well.

James Tidball has been a student or a professor of the university for 36 years. He is now a Professor of Physiological Science in the College of Letters and Science, a Professor of Pathology in the School of Medicine, and Chair of the Ph.D. program in Molecular, Cellular & Integrative Physiology at UCLA. His research concerns the causes and treatment of muscle disease.

### **Physiology 19, Seminar 1**

*The Biology of Birth Control*

Nancy Wayne

We will begin our understanding of the biology of birth control by investigating how the body normally controls fertility, with a focus on the female menstrual cycle and the underlying endocrine events that control this cycle. We will then discuss a wide variety of frequently used birth control devices (e.g., barrier methods, hormonal manipulations, sterilization), and the effects they have on the reproductive system either to block conception or to induce abortion of the embryo/fetus. Contraceptive methods that prevent sexually transmitted diseases will be discussed also.

Nancy Wayne is a Professor of Physiology, and has been a faculty member at UCLA since 1992. Her research area focuses on understanding how the brain controls reproduction. She has been teaching Reproductive Physiology and Endocrinology to health professional students for over ten years.

### **Psychology 19, Seminar 1**

*Stress! Causes, Symptoms, and Remedies*

Carlos V. Grijalva

We all have our perceptions and misperceptions of what “stress” is and the impact that different experiences have on our lives. This seminar is intended to gain a better understanding of “stressors” in our lives and the impact they can have on mental and physical health. The causes and symptoms of stress will be examined and stress management techniques will be highlighted.

Carlos V. Grijalva is a Professor of Behavioral Neuroscience in the UCLA Department of Psychology. He has been on the faculty since 1982, and has taught

both undergraduate and graduate courses in behavioral neuroscience, and on the psychobiology of emotion and stress. He served as Associate Dean in the Division of Honors and Undergraduate Program in the College of Letters and Science from 1991-1996. He received a Distinguished Teaching Award from the Psychology Department in 2005.

### **Psychology 19, Seminar 3**

*The Diversity Challenge: Understanding and Overcoming Group Conflicts*

Yuen Ho

Progress in civil rights and a new wave of immigration have created an unprecedented level of diversity in American schools, workplaces, and communities. As individuals from different cultural, ethnic, and racial groups come together, questions are raised about how this demographic shift will play out. Can people from different cultural backgrounds find ways to live and work together, despite their differences? Or, is social division along ethnic and racial lines inevitable? We will address these and other questions by drawing upon scientific research on the origins and consequences of group conflicts and strategies for overcoming them. Films and in-class exercises will supplement the readings to stimulate class discussion.

Yuen Huo is an Associate Professor of Psychology. Her research interests include group dynamics, intergroup relations, the psychology of justice, ethnic minority, and cultural psychology. She is particularly interested in how psychological processes affect the dynamics of ethnic relations in the workplace, the legal system, and in American politics. She has co-authored three books: *Social Justice in a Diverse Society*; *How Different Ethnic Groups React to Legal Authority*; and *Trust in the Law*. Before joining UCLA, she was a research fellow at the Public Policy Institute of California. Her research has been recognized by the Otto Klineberg Intercultural and International Relations Award, and she currently sits on the governing board of the Society for the Psychological Study of Social Issues.

### **Psychology 19, Seminar 4**

*The Virginia Tech Tragedy: Why? How to Prevent Similar Occurrences*

Seymour Feshbach

The focus of the seminar will be on the Virginia Tech shootings. To facilitate the discussion, theories of aggression will be briefly reviewed. Other campus shootings will be reviewed, and commonalities among them will be considered. Approaches to preventing or reducing the incidence of such shootings will be addressed.

Dr. Feshbach's principal area of research interest has been the study of aggressive behavior. He has been President of the International Society for Research on Aggression and President of the Society for the Psychological Study of Social Issues. He has written theoretical papers on the functions of different forms of aggression and has carried out empirical research on television influences on aggression, the relation between sexual arousal and aggression, play aggression and the role of individual aggression versus nationalism in attitudes towards war. With Professor Norma Feshbach, he has implemented and evaluated empathy fostering programs in schools that are intended to reduce aggression and social prejudice.

### **Psychology 19, Seminar 5**

*Disturbed and Disturbing Students: Learning from Virginia Tech*

Constance Hammen

The April, 2007 shooting of students and faculty by an undergraduate at Virginia Tech was a horrible event that affected college campuses around the world. College is supposed to be a safe, protective environment that promotes learning and scholarship, but psychologists and administrators are well aware that every campus harbors disturbed and disturbing students who are a threat to themselves and others. The rate of troubled students appears to be increasing, and students want to know what it means to them and to their friends. The seminar uses this tragic example to explore issues of student mental health and possible causes of disorders, and to talk about the personal and campus resources needed to try to deal with such problems, as well as the historical, social, cultural, and legal/ethical issues that influence the causes and solutions of these concerns. There are more questions than answers, but the course attempts to engage students in thinking about the issues and learning how psychologists approach the topics.

Professor Connie Hammen is a clinical psychologist on the faculty of the Department of Psychology, and for 13 years served as the director of the graduate program in clinical psychology. Her research is on mood disorders, especially the study of depression in adolescents and young adults, and the effects of stress on adjustment. She has written or edited several books on depression, and published numerous research articles. She teaches undergraduate and graduate courses on abnormal psychology and psychopathology, and in 2005 was awarded a Distinguished Teaching Award from the Department of Psychology. She taught one of the original *Fiat Lux* courses immediately following the events of September 11, 2001.

### **Statistics 19, Seminar 1**

*Portfolio Management: Theory and Practice*  
Nicolas Christou

Holding one stock alone is riskier than holding a number of stocks in a portfolio. Diversification is important in stock market investments because it reduces the risk faced by the investor. Using real stock market data, this seminar will focus on how to build efficient portfolios under different scenarios. The students will select their own stocks and build portfolios using a computer spreadsheet, graphically and computationally.

Nicolas Christou received his Ph.D. in Statistics in 2000 from the Stern School of Business, New York University. Since then, he has been an Adjunct Assistant Professor with the Department of Statistics at UCLA. His current research interests include spatial statistics, the applications of statistical models in finance, and teaching statistics.