



Fall 2017 Honors Seminars

Seminars are restricted to students currently enrolled in the College Honors Program through College of Letters and Science, or students in the College of Creative Studies.

These **two-unit** courses provide an opportunity for research exploration in various disciplines and consider advanced studies beyond college. To earn honors credit, seminars must be completed with a letter grade of B or higher. **Eligible students may take 8 units maximum of INT 84 seminars and 8 units maximum of INT 184 seminars.**

Add Codes for enrollment are made available only by the professor of the course. Please contact them directly for add codes during your assigned pass time.

**All Honors Seminars are 2 units. Consult
GOLD for additional course details.**

**Please note if your class is not a 10-week course the add/drop deadline
may be earlier.**

Lower-Division Seminars:

*****LAB BASED/FIELD TRIP*****

**INT 84AA: How Volcanoes Work - Insights from Field & Laboratory Observations
Professor Phillip Gans - Earth Science**

Day: Mondays
Time: 4:00-4:50 pm
Location: GIRV 2135 (see GOLD)
~and~

3-day excursion (contact instructor for exact dates)

Enrollment Code: 61952

This combined lecture, laboratory, and field course will explore the inner workings of volcanoes as the origin of different eruptive styles, volcanic landforms, and deposits. The course will introduce some of the analytical techniques used to study volcanic rocks and include a **3-day field excursion** to some magnificent volcanic systems in SE California

Professor Gans grew up in Brazil, attended Cornell University (BS-Engineering) and then Stanford University for his MS and PhD in Geology. He has over 25 years experience teaching and has conducted field-based research on volcanic systems in the western United States, Mexico, Costa Rica, Chile, and Iceland.

gans@geol.ucsb.edu

October 5, 2017

INT 84AB: The World in the Mind: Introduction to Cognitive Geography
Professor Daniel Montello - Geography

Day: Mondays
Time: 4:00-5:50 pm
Location: GIRV 2108 (see GOLD)

Enrollment Code: 61960

Human action and interaction in the world is mediated by mental representations stored in the nervous system. We do not make choices and guide behavior based directly on reality but on our internal models of reality. This seminar introduces the study of human perception and cognition of the world.

Dan Montello has been Professor of Geography at UCSB since 1992, and Affiliated Professor of Psychological & Brain Sciences since 1995. He researches and teaches about spatial, geographic, and environmental perception, cognition, affect, and behavior. He has recently edited the 22-chapter Handbook of Behavioral and Cognitive Geography.

montello@geog.ucsb.edu

INT 84AC: Using Effective Communication Techniques in the Courtroom
Professor Daniel Linz - Communication

Day: Wednesdays
Time: 0100-0250
Location: SSMS 4143

Enrollment Code: 64139

This course will require students to observe attorneys in the courtroom, at trial, in the Santa Barbara courthouse. The students may choose to focus on a number of topics relevant to effective communication. This may include making effective opening statements, visual presentation of evidence, interviewing witnesses on the stand and increasing jury persuasion. The course instructor will facilitate meetings and discussions with attorneys and the judge participating in the trial. This course may be especially useful for students considering a career in the legal system.

Professor Linz's research and teaching focuses on communication and law. One area of concentration is communication in the courtroom. In his teaching he emphasizes community and practical experience, while encouraging students to observe legal trials and meet with the attorneys and the judges involved in the trial. Students will later meet with Professor Linz to discuss their experiences.

linz@comm.ucsb.edu

*** NEW TITLE***

INT 84AD: Humanitarian Advocacy

Professor Claudio Fogu - French and Italian

Day: Tuesdays

Time: 0200-0350

Location: PHELPS 5316 (note new location)

Enrollment Code: 70292

In collaboration with Scholars at Risk (SAR), the purpose of this course is to work as the case-responsible entity for a writer or thinker who is being persecuted for his/her ideas. With SAR, we will identify and assume a new case. From there, we will conduct background research on the region, the politics of the case, and the specific issues, thus building a portfolio or dossier on that case. With a completed dossier, we will be able to develop and implement an advocacy strategy. The seminar will be run as a hybrid between the editorial room of a news agency and the planning meeting of an NGO. We will be gathering information, learning the history and culture of the regions, preparing reports, developing and maintaining blogs, creating video and multimedia presentations, art-centered projects, working with other organizations, lobbying government officials, generating public awareness and interest, working on local press outreach, etc. As part of this learning project, students also will begin the conversation between expression, repression, and critical thinking.

Claudio Fogu is Associate professor of Italian Studies and Scholars at Risk (SAR) representative at UCSB. He works on Italian cultural history and memory, with an emphasis on film and visual culture. He is the author of *The Historic Imaginary. Politics of History in Fascist Italy* (University of Toronto Press, 2003), and co-editor of *The Politics of Memory in Postwar Europe* (Duke UP, 2006), and *Probing the Ethics of Holocaust Culture* (Harvard UP, 2016). He is also a member of the activist-scholarly network *Storie in movimento* and co-founder of its digital journal for the history of social conflict, *ZapruderWorld*, of which he is co-editing a forthcoming volume on "Performing Race."

cfogu@frit.ucsb.edu

INT 84AE: What is Beauty?

Professor Volker M. Welter - History of Art & Architecture

Day: Tuesdays

Time: 1100-1250

Location: LSB 1101

October 5, 2017

Enrollment Code: 64154

We typically recognize beauty when we see it. Yet when we try to describe it, it often eludes us. This seminar will read and discuss classic, mostly Western texts on beauty, especially but not only in relation to art, architecture, and philosophy, ranging from antiquity to the late twentieth century. A reading list will be made available closer to Fall quarter 2017. **Please note that this course will be taught in conjunction with INT 184VW which is the upper division version of this course.**

Professor Volker M. Welter teaches modern architectural history and theory in the Dept. of the History of Art & Architecture. His teaching and research focuses on the aesthetics of architecture, the often strenuous relationship between architecture and the natural world, and the beauty architecture can add to the latter.

welter@arthistory.ucsb.edu

INT 84IR: Introduction to Research: from Citizen Science to Digital Humanities
Professor Jeffrey Stopple, Mathematics

Day: Wednesdays
Time: 4:00-5:50
Location: NH 1006 (see GOLD)

Enrollment Code: 66407

Introduces freshman honors students to research opportunities at UCSB. Professors from different academic disciplines will come to share their own college experiences, their research interests, and their involvement in undergraduate teaching and research, while advanced students will showcase their research projects and discuss ways to approach and work with professors. In addition, students will engage in several ongoing research projects from the sciences to the humanities. The major challenge of 21st century research is dealing with the flood of information now collect. Computers can help, but in many fields the human ability for pattern recognition is required. Students will help researchers around the world. These projects combine contributions from many individual volunteers, relying on a version of the 'wisdom of crowds' to produce reliable and accurate data, advancing the ability of computers to do the same tasks, and leading to faster progress and understanding of the world, getting to exciting results more quickly.

Professor Stopple's research is in number theory, particularly prime numbers.

stopple@math.ucsb.edu

INT 84JC: Drinking Water in The 21st Century
Professor Jordan Clark - Earth Science

Day: Tuesdays and Thursdays
Time: 1:00-1:50
Location: NH 1006 (see GOLD)

Enrollment Code: 26583

The demand for drinking and irrigation water has soared creating supply problems globally. The 20th century solutions have lost their place among planners. New solutions are needed to meet the new demand. This class will examine a book by David Sedlak's 'Water 4.0' that offers solutions from increasing water supplies.

Dr. Clark is an environmental scientist who works in geochemistry and hydrology. Much of his current research relates to water supply problems in California. In particular, he investigates groundwater flow near Managed Aquifer Recharge sites. He has taught a version of this class numerous times.

jfclark@geol.ucsb.edu

COURSE CANCELLED

INT 84ZK: Introduction to Linear Programing - The Simplex Method
Professor Gustavo Ponce – Mathematics

Day: Wednesdays
Time: 2:00-3:50
Location: HSSB 1236 (see GOLD)

Enrollment Code: 70318

Operation Research (OR) was developed early in World War II, as there was a need to allocate scarce military operations in an efficient manner. After the war OR had a very rapid development, as linear programing, dynamic programing and inventory theory among others were developed at the end of the 1950's. Later, the computer revolution provided a great impulse to the growth of the OR. Large amounts of computations often required in the complex problems typically analyzed by OR could be easily handled. As an example of a problem which can be solved by using linear programing is the Transportation Problem : A company has stocks of goods allocated in k different storehouses. The goods have to be delivered to n different customers, each of which is requesting a certain quantity of goods. The transportation cost of one unit of the good from the storehouse i (for i=1 to k) to the customer j (for j=1 to n) is known. The aim is to design a transportation strategy which satisfies the customers demand and minimize the total transportation costs. From the mathematical point of view this is an excellent subject to review and apply what we have

learnt in linear algebra, geometry in the plane and three space, and multi-variable calculus.

Gustavo Ponce has been a professor of mathematics at UCSB since 1991. He has studied several aspects of nonlinear evolution models arising in mathematical physics. This area is at the intersection of partial differential equations and classical harmonic analysis. The emphasis has been on the development of new techniques which provide a better description for the behavior of the solutions to these models.

ponce@math.ucsb.edu

INT 84ZW: Past, Present, and Future Climate Changes: A Geological Perspective
Professor Syee Weldeab - Earth Science

Day: Fridays
Time: 2:00-3:50 pm
Location: HSSB 1224 (see GOLD)

Enrollment Code: 61226

The goal of the seminar is to develop a better understanding of climate changes over the last 800,000 years. We will examine the magnitude, timing and pace of changes in atmospheric greenhouse gasses, temperature, and sea level. The seminar will highlight that understanding past climate changes is critical to assess future climate changes.

Professor Weldeab's research focuses on understanding the mechanisms of past climate changes and the lesson's learned from past climate changes. Using marine and terrestrial climate archives, he reconstructs changes in past climate and examine their relationship to changes in atmospheric greenhouse gasses and Sun-Earth constellation.

weldeab@geol.ucsb.edu

*****FIELD TRIP*****

INT 84ZX: The Sierra Nevada
Professor Peter Alagona – Environmental Studies

Day: Wednesdays
Time: 0300-0350 pm
Location: BREN 4316 (see GOLD)
~and~

November 16-19, 2017 overnight excursion (see course description below)

Enrollment Code: 61234

This course will use the Sierra Nevada as a bioregional case study to explore key issues in California environmental history and geography, with a focus on water resources.

October 5, 2017

Students will attend weekly discussions during the first seven weeks of the quarter. Then on **November 16-19, 2017 a four-day field trip to UCSB's Sierra Nevada Aquatic Research Laboratory in Mammoth Lakes**, where students will experience a packed weekend of field work, site visits, meetings with local experts, guest lectures, and discussions.

Peter Alagona is an associate professor of history, geography, and environmental studies at the University of California, Santa Barbara. He is an environmental historian whose work examines the role of science in environmental politics, policy, and popular ideas about nature, with a particular focus on California and the American West. He is the author of numerous publications on these topics, including *After the Grizzly: Endangered Species and the Politics of Place in California*, published by the University of California Press in 2013.

alagona@history.ucsb.edu

COURSE CANCELLED

INT 84ZY: Don Quixote: The Problem of the World
Professor Antonio Cortijo – Spanish and Portuguese

Day: Mondays
Time: 0800-0950 am (note time & location change)
Location: PHELP 2536 (see GOLD)

Enrollment Code: 61978

This seminar analyzes some of the most relevant issues involved in Don Quixote studies. The course facilitates a close reading of Don Quixote in the artistic and historical context of Renaissance and Baroque Spain. In addition, the course deals with the ambiguity of its main character and the author's fluid vision of the modern subject.

Antonio Cortijo analyzes in his research the ideological structures and tensions that have forged the Modern Period across the Atlantic and across the languages and cultures of the Iberian Peninsula. Professor Cortijo deals with issues such as nation building, power and ideology, religion and economy in the late medieval through 18th centuries, as well as with the larger topic of the relevance of Humanism in the creation of the modern nations. He is the author of over 40 monographs and editions.

cortijo@spanport.ucsb.edu

INT 84ZZ: Dramatic Writing Workshop (Playwriting & Screenwriting) Professor Frances Cowhig – Theater and Dance

Day: **Thursdays**
Time: **0300-0450 pm**
Location: **HSSB 1105 (note new location: see GOLD)**

Enrollment Code: **61986**

Start a play or screenplay from scratch! This course is dedicated to generating new dramatic material for the stage and screen and will be most useful for students who already have a strong sense of the material they would like to explore via dramatic writing - be it independent research, lived experience, personal observations, a news article, etc. Scripts will be developed weekly via in class writing workshops in which the script is read out loud and discussed through the lenses of dramatic tension, conflict, character journey and opposition.

Frances Ya-Chu Cowhig's plays have been produced at the Royal Shakespeare Company, the National Theatre of Great Britain, Manhattan Theater Club, the Goodman Theatre, Trafalgar Studios 2 [West End], Crowded Fire, Page 73 Productions, Interact Theatre, Borderlands Theatre and the Contemporary American Theatre Festival. Her work has been awarded the Wasserstein Prize, the Yale Drama Series Award, an Edinburgh Fringe First Award, the David A. Callichio Award and the Keene Prize for Literature.
francesyachucowhig.com

fcowhig@theaterdance.ucsb.edu

Upper-Division Seminars:

INT 184AC: Can You Hear the Shape of the Earth?
Professor Toshiro Tanimoto – Earth Science

Day: **Thursdays**
Time: **0300-0450 pm**
Location: **WEBB 1015 (see GOLD)**

Enrollment Code: **71027**

In the last 20 years, there have been many giant earthquakes ($M > 8.0$). When they occur, our earth shakes at its resonant frequencies, just like musical instruments. We will use MATLAB to look at some real data and learn what they imply in terms of the internal earth structure. Students should have had Math 6B or concurrent enrollment or equivalent.

Professor Toshiro Tanimoto is a seismologist (geophysicist) whose speciality is in wave propagation and oscillations in the Earth. He has been a professor in Earth Science since 1992.

toshirotanimoto@ucsb.edu

INT 184PD: Introduction to Clinical Medicine

This course is designed to provide students interested in a medically related career an introduction to clinical medicine. Upper-division standing and consent of instructor required. The selection process is competitive. Honors students interested in INT 184PD should review the course requirements (see link below) and if eligible, email Dr. Stephen Blain, sblain@ltsc.ucsb.edu

<http://www.duels.ucsb.edu/honors/advantages/health>

INT 184DH: Introduction to Clinical Medicine
(This course is for those who have already taken INT 184PD)

This course is designed to provide students interested in a medically related career an introduction to clinical medicine. Upper-division standing and consent of instructor required. The selection process is competitive. Honors students interested in INT 184DH should review the course requirements (see link below) and if eligible, email Dr. Stephen Blain, sblain@ltsc.ucsb.edu

<http://www.duels.ucsb.edu/honors/advantages/health>

Students: Please remember to read through the course requirements for INT 184PD and INT 184DH prior to contacting our office about enrollment.

INT 184VW: What is Beauty?
Professor Volker M. Welter - History of Art & Architecture

Day: Tuesdays
Time: 1100-1250
Location: LSB 1101

Enrollment Code: 64162

We typically recognize beauty when we see it. Yet when we try to describe it, it often eludes us. This seminar will read and discuss classic, mostly Western texts on beauty, especially but not only in relation to art, architecture, and philosophy, ranging from

antiquity to the late twentieth century. A reading list will be made available closer to Fall quarter 2017. **Please note that this course will be taught in conjunction with INT 84AE the lower division version of this course.**

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welter@arthistory.ucsb.edu

INT 184ZK: Twin Paradox in Special Relativity Theory
Professor Denis Labutin – Mathematics

Day: Tuesdays
Time: 0300-0450 pm
Location: GIRV 2127 (see GOLD)

Enrollment Code: 61242

In (special) relativity theory, the twin paradox is a thought experiment involving identical twins, one of whom makes a journey into space in a high-speed rocket and returns home to find that the twin who remained on Earth has aged more. This time slow-down and many other counter-intuitive phenomena (length shortening, Doppler effect, ...) must occur as a consequence of Einstein's special relativity theory. Mathematical formalization of the relativity was developed by Minkowski (Minkowski space-time) and is actually accessible to anybody with the calculus sequence background. In this seminar we shall discuss the basics of the special relativity theory. The plan is to see how physical intuition helps to understand mathematical machinery, and conversely how the mathematical formalism eliminates physical "paradoxes". Research area: nonlinear partial differential equations and their applications in geometry. PhD 2000 from Australian National University.

labutin@math.ucsb.edu

INCLUDES FIELD TRIP on November 17

INT 184ZQ: Downtown Los Angeles: Gentrification, Architecture, Money, & Politics
Professor Richard Wittman - History of Art & Architecture

Day: Wednesdays (weeks 3-8 of F17 quarter)
Time: 1100-1250
Location: GIRV 1106

Enrollment Code: 27110

Formerly prosperous Downtown LA was largely "abandoned" after WW II, and by 1970 was synonymous with urban blight. Yet recently DTLA has experienced a self-proclaimed "renaissance," as poor residents are displaced by prosperous ones and taco stands by hip

restaurants. We will study this transformation from various critical perspectives.

Professor Richard Wittman has taught at UCSB since 2004. He is a specialist in eighteenth- and nineteenth-century French and Italian architecture and town planning, but teaches a wide range of architectural history courses at UCSB, including a global introductory survey. His first book, *Architecture, Print Culture, and the Public Sphere in Eighteenth-Century France*, was published by Routledge in 2007.

rwittman@arthistory.ucsb.edu

We encourage you to continue to check our website for additions to our **Honors Seminars** offerings.

<http://www.duels.ucsb.edu/honors/experiences#seminars>

Please see the Section list online Fall 2017 Honors Sections.