



Fall 2016 Honors Seminars

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

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:

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

**Day: Tuesdays and Thursdays
Time: 1:00-1:50 pm
Location: GIRV 2124**

Enrollment Code: 53769

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

July 14, 2016

INT 84SB: "I crave your mouth, your voice, your hair": Love and Desire in Iberian and Latin American Poetry
Professor Silvia Bermudez - Spanish and Portuguese

Day: Tuesdays
Time: 3:00-4:50 pm
Location: HSSB 3202

Enrollment Code: 58479

In this Honors Seminar we will become acquainted with poems of love and/or desire from the Iberian Peninsula and Latin America spanning five centuries. Our aim is to understand how poetic discourse allows for the articulation of the variety of states, feelings and attitudes associated with passionate desire and/or romantic love. We will dedicate the last 3 sessions to evaluate *The School of Solitude: Collected Poems* by Peruvian Luis Hernandez, translated by Anthony Geist (2015).

Professor Silvia Bermudez teaches and researches on Iberian and Latin American Studies. Her current courses and research projects focus on Iberian/Galician Studies, Mediterranean Studies, and Cultural Studies--particularly popular music.

bermudez@spanport.ucsb.edu

*****FIELD TRIP INCLUDED*****

INT 84ZB: Causes and Consequences of Sea-Level Change: A Geologic Perspective
Professor Alexander Simms – Earth Science

Day: Thursdays
Time: 5:00-5:50 pm (note new time)
Location: GIRV 1106

With 3-day overnight excursion on October 27-29th, 2016 (Thursday through Saturday).

Enrollment Code: 53777

During this course we will discuss the causes of sea-level rise at several different time scales and its influence on natural and geologic systems. We will be looking at the record of ancient sea-level changes recorded in the rocks of Eastern California desert which includes a 3-day excursion.

Dr. Simms has studied sea-level changes and how they influence coastlines for over 10 years. He has worked on the modern coastlines of Texas, California, and Antarctica as well as the ancient coastlines of Oklahoma and New Mexico.

asimms@geol.ucsb.edu

INT 84ZC: The Mathematics of Alice in Wonderland
Professor Jeffrey Stopples – Mathematics

Day: **Thursdays**
Time: **1:00-2:50 pm**
Location: **HSSB 3201**

Enrollment Code: 26047

The mathematician Charles Dodgson did research in logic at Oxford in the nineteenth century, but he is better known (as Lewis Carroll) as the author of Alice in Wonderland and Through the Looking Glass. The books are filled with riddles, wordplay, and mathematical puzzles and nonsense. The 19th century was a turbulent time for mathematics, with many new and controversial concepts, like imaginary numbers and non-Euclidean geometry, becoming accepted in the mathematical community. Is Dodgson satirizing these radical new ideas? Or does his playfulness lay the groundwork for a still more radical shakeup in the 20th century? No prior mathematics is necessary, as we learn a little about set theory, meta-language, and modern logic.

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

stopples@math.ucsb.edu

Upper-Division Seminars:

INT 184PD: Introduction to Clinical Medicine

This course is not a seminar and instead entails intimate shadowing experiences with physicians at Sansum Clinics and first year residents at Cottage Hospital each quarter. Junior and Senior students interested in the health professions are eligible and consent of the instructor is 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>

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

INT 184ZC: How to Build a Habitable Planet **Professor Frank Spera, Earth Science**

Day: **Fridays**
Time: **9:00-10:50 am**

July 14, 2016

Location: HSSB 2201

Enrollment Code: 53793

Interweaving physics, astronomy, chemistry, geology and biology, we will examine a sweeping account of Earth's complete story, from the synthesis of chemical elements in stars, to the formation of the Solar System, to the evolution of a habitable climate on Earth, to the origin of life and humankind. Along the way we will address the search for other habitable worlds in the Milky Way and beyond and contemplate whether Earth will remain habitable as our influence on global climate grows and finally consider the ways humankind can sustain Earth's habitability.

Professor Spera has been teaching at the University level since 1977. As a volcanologist he studies the details of magma transport and volcanic eruptions. He has a long standing interest in the history of the Universe and the Solar System with a special emphasis on Planet Earth and the narrative on Earth Evolution of the atmosphere, hydrosphere, biosphere and solid Earth. Professor Spera teaches classes in Earth Science in geomaterials (minerals and rocks) and also in planetary geology.

spera@geol.ucsb.edu

INT 184ZL: This Changes Everything: Capitalism vs. The Climate
Professor Ken Hiltner - English

Day: Mondays
Time: 4:00-5:50 pm
Location: GIRV 1108

Enrollment Code: 53827

In this seminar we will read what has been called "the most momentous and contentious environmental book since Silent Spring": Naomi Klein's *This Changes Everything: Capitalism vs. The Climate* in its entirety. We will be using Klein's book as a starting point for discussing the issue of climate change.

Ken Hiltner is the Director of both the Environmental Humanities Initiative and the Literature and Environment Center. He received his PhD from Harvard University, where he garnered a number of distinctions as a researcher and Teaching Fellow, including the Bowdoin Prize. He has written a number of books and articles, mostly on Renaissance literature, ecocriticism, and the intersection of the two.

hiltner@english.ucsb.edu

INT 184ZN: Generating New Material (Solo Performance)
Professor Frances Cowhig – Theater & Dance

Day: **Tuesdays**
Time: **3:00-4:50 pm**
Location: **TD-E 1101**

Enrollment Code: 53868

A theatrical investigation of objects (be it for actors, directors, playwrights, designers or ANYONE interested in their own imagination and the delivery systems of their imaginations in a study in listening, seeing, extrapolating and sharing.) Emphasis is on physical forms of storytelling and methods of building a solo performance moment by moment through research, generative writing, improvisation and observation. No performance or writing experience necessary.

Frances Ya-Chu Cowhig's plays have been produced at venues such as 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. She is Head of the Writing for Performance Concentration at UC Santa Barbara. www.francesyachucowhig.com

fcowhig@theaterdance.ucsb.edu

INT 184ZO: The Mathematics of Human Language
Professor Fermin Moscoso del Prado - Department of Linguistics

Day: **Fridays**
Time: **11:00-12:50 pm**
Location: **HSSB 4201**

Enrollment Code: 53876

Mathematics offer powerful tools for studying human language. Although mathematical tools are often used in computational linguistics, they are less commonly used for drawing theoretical inferences on the nature of language itself. The seminar will introduce new developments in applying mathematics to linguistics, with a focus on Information Theory.

Professor Moscoso del Prado holds an M.Eng. in Computer Science (Madrid) and a Ph.D. in Linguistics (Nijmegen). Before UCSB, he worked at the Max Planck Institute for Psycholinguistics (Nijmegen, NL), the Medical Research Council, Cognition and Brain Sciences Unit (Cambridge, UK), and the Centre National de la Recherche Scientifique (France).

fmoscoso@linguistics.ucsb.edu

INT 184ZP: Magic Bullets, Genome Editing, and Health, Oh My!
Professor Kathy Foltz – Molecular, Cellular and Developmental Biology

Day: Wednesdays
Time: 3:00-4:50 am
Location: PHELPS 1530

Enrollment Code: 53884

We will go deep into the world of how "biomedical advances" are perceived and how the consumer is often fooled into thinking a procedure or product is tested rigorously. We will also look at how new sequencing and genome editing technologies are changing the landscape of diagnosis and disease treatment. Open to all majors.

Kathy Foltz teaches a variety of upper division courses in MCD Biology as well as numerous seminars in CCS Biology. Her research focuses on the molecular basis of gamete recognition and signaling mechanisms that drive egg activation and development. Professor Foltz has a personal interest in science communication.

kathy.foltz@lifesci.ucsb.edu

*****JUST ADDED*****

*****FIELD TRIP INCLUDED*****

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

Day: Wednesdays (weeks 2-7)
Time: 11:00-12:50 pm
Location: GIRV 1106
With day-long excursion on Friday, November 4, 2016.

Enrollment Code: 68445

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.

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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#courses>

Please see the Section list online Fall 2016 Honors Sections.

July 14, 2016