



## Winter 2018 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:

**INT 84AF: Policing and Restorative Justice**  
**Professor Victor Rios - Sociology**

**Day: Wednesdays**  
**Time: 1200-0150 pm**  
**Location: HSSB 1227**

**Enrollment Code: 59253**

This seminar examines the problems of policing in urban communities in the United States. Students work on projects to develop policy and program solutions for policing marginalized communities.

Professor Rios conducts research on inner city youth experiences with policing, education, and adversity. He examines the quality of interactions between gang associated youths and authority figures across institutional settings. Dr. Rios received his Ph.D. at the University of California Berkeley. He is the author of five books and has advised the Obama Administration on Policing and Gun Violence.

[vrrios@soc.ucsb.edu](mailto:vrrios@soc.ucsb.edu)

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**INT 84AG: Introduction to Mediterranean Studies: Movement and Migration at the Turn of the Twenty-First Century**

**Professor Silvia Bermudez - Spanish and Portuguese**

**Day: Thursdays**  
**Time: 0200-0350 pm**  
**Location: HSSB 4202**

**Enrollment Code: 59261**

This Introduction evaluates the Mediterranean Basin in present-times (from the late Twentieth-Century to 2017) as a shared but contested space where notions of frontier,(in)security, and policing identity are pitted against the desire to move to find work, safer political grounds, or/and better opportunities across borders. To attend to the migration dynamics and narratives traversing the Mediterranean shores we will pay attention to music, literature, and film from diverse nations and regions.

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. Her latest book is titled 'Rocking the Boat: Migration and Race in Contemporary Spanish Music'.

[bermudez@spanport.ucsb.edu](mailto:bermudez@spanport.ucsb.edu)

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**INT 84AH: Special Relativity for Pedestrians**

**Professor Tengiz Bibilashvili - Physics**

**Day: Wednesdays**  
**Time: 0500-0650**  
**Location: GIRV 1108**

**Enrollment Code: 59279**

The goal of the seminar is to teach Special Relativity (SR) using Einstein Notation (EN). **The class is designed for enthusiastic students with no or little background in SR. Prerequisite Physics 20, and 21, or at least concurrent enrollment in Physics 21.** First we will see how EN is used in non-relativistic physics. Then we will learn SR using EN. At the end we will explore how relativistic kinematics is used in High Energy Experiments (HEX) in colliders (like LHC). Good grasp of EN will prepare students to better understand General Covariance of Physics laws like Maxwell's equations in Electromagnetism.

Dr. B aka Tengiz Bibilashvili earned his Ph. D. at Tbilisi State University. His Ph. D. thesis was about Non-equilibrium Quantum Field Diagrammatic. Later he focused on teaching physics and he prepared several Gold, Silver and Bronze Medal winners at the International Physics Olympiads based on physics problem solving.

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**\*\*\*EXCURSION-BASED\*\*\***

**INT 84AI: La/La Land: Latin American Art in Los Angeles**

**Professor Amy Buono - History of Art and Architecture**

**Day: January 22 & 29, 2018 (Mondays)**

**Time: 0200-0350**

**Location: ARTS 1332 (See GOLD)**

**Field Trip to Los Angeles on January 27, 2018 (Saturday)**

**Enrollment Code: 61499**

This seminar will examine two groundbreaking exhibitions of Latin American art in L.A., part of the Getty's Pacific Standard Time initiative. These exhibitions explore identity, community and materiality in Latin America across a broad historical and geographic range, and meet with curators to get a behind the scenes.

Amy Buono is an art historian specializing in the visual and material culture of Latin America and the Atlantic world. Her interests include indigenous and Afro-Brazilian artistic practices; heritage studies; and colonialism and ethnohistory. Deeply interdisciplinary, her work intersects with science studies, art and anthropology, and museum history.

[abuono@ucsb.edu](mailto:abuono@ucsb.edu)

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**\*\*\*EXCURSION-BASED (additional dates)\*\*\***

**INT 84AK: Revolutionary Energy: Modernist Art, Literature and Culture from Picasso to the Present**

**Professor Enda Duffy, English**

**Days: Friday, January 12, 19 and February 2, 9, 16, 23 (additional dates)**

**Time: 1000-1150 am**

**Location: SH 2617**

**Field Trip on Saturday, February 3 at 1000-0150 pm to University Art Museum**  
**Field Trip on Saturday, February 24 at 1000-0150 pm to Santa Barbara Art Museum**

**Enrollment Code: 61952**

A hundred years ago, revolution swept the art scene, and all culture was transformed. This course surveys these changes, from Virginia Woolf's daring feminist body-writing to the art of the Surrealists. We then ask, what has happened to art and culture since? We cap the course by spending **a half-day together interacting with some impressionist, modernist and contemporary art at the Santa Barbara Art Museum.**

Arnhold Presidential Dept. chair, English Dept., Prof. Duffy is the author of *The Subaltern Ulysses*, a groundbreaking work on the writer James Joyce, and *The Speed Handbook*, which won the Modernist Studies Book Prize for the best book in Modernist Studies. He has completed a new book on emigration and literature, and his new project explores how energy of all kinds is represented in modern fiction.

[duffy@english.ucsb.edu](mailto:duffy@english.ucsb.edu)

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**\*\*\*EXCURSION-BASED\*\*\***

**INT 84MM: Rediscovering Museums**  
**Professor Mark Meadow - History of Art & Architecture**

**Days: Friday, February 9 & 16, 2018**

**Time: 1200-0150**

**Location: ARTS 1332**

**Field Trip on Saturday, February 10, 2018**

**Enrollment Code: 61523**

This seminar examines the museum as an institution and a set of cultural practices. Why do we have special buildings dedicated to looking at objects? What are our expectations about museums and what expectations do museums have about their visitors? How do museums shape our viewing experience? We will explore these and other questions in two two-hour classroom discussions and **an all-day field trip to Los Angeles.**

Professor Meadow, Chair of History of Art and Architecture, is an art historian who specializes both in Northern Renaissance art and in the History and Theory of Museums. He led a 10-year research project on the collections of the University of California and designed an innovative museum studies program, "Museums, Collections and Cultural Politics," for Leiden University in Holland.

[meadow@arthistory.ucsb.edu](mailto:meadow@arthistory.ucsb.edu)

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**JUST ADDED**

**\*\*\*EXCURSION BASED\*\*\***

**INT 84ZP: Observing Behavior**

**Professor Michelle Brown, Anthropology**

**Day: Fridays**  
**Time: 0900-1050**  
**Location: HSSB 2018**

**Enrollment Code: 64816**

Observational methods are the cornerstone of behavioral studies on vertebrate and invertebrate species and are utilized by both anthropologists and ecologists. Students will learn a variety of techniques for documenting behavior by observing other UCSB students, dogs, and local wildlife in the Isla Vista environs.

Professor Brown studies the behavioral ecology of non-human primates to understand the evolution of social systems, the interplay of cooperative and competitive actions, and the effects of environmental change on the behavior of individuals, groups, and populations.

[mbrown@anth.ucsb.edu](mailto:mbrown@anth.ucsb.edu)

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**INT 84ZT: Mathematics of Origami**

**Professor Jeffrey Stoppie, Mathematics**

**Day: Mondays**  
**Time: 0800-0950**  
**Location: SH 1607**

**Enrollment Code: 59246**

Origami is the ancient Japanese art of paper folding. One uncut square of paper can, in the hands of an origami artist, be folded into extraordinarily complicated and intricate shapes. The art of origami has been going through a renaissance over the past 30 years, with new designs being created at ever-increasing levels of complexity. It's no coincidence that this rise in origami complexity has emerged at the same time scientists, mathematicians and origami artists have been discovering more and more of the mathematical rules that govern how paper folding works.

November 14, 2017

This course requires no particular mathematical background. Previous students have said "Super fun and interesting!!" "The class was run so that someone not so math-oriented (like me) and someone who excels in math and isn't as familiar with origami could enjoy the class. It was interesting to approach these projects from a non-math background." "The topic is very interesting, the discussion between students allowed for a lot of fun conversations, and the hands on activities were great." "The class was hands-on and engaging. The format facilitated discussion on the topic and activity with other students and with the professor. It was satisfying to be able to finally successfully put together whatever we were working on. It was fun to team up with someone and use each other's strengths to accomplish the task."

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

[stopple@math.ucsb.edu](mailto:stopple@math.ucsb.edu)

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

**Day:            Fridays**  
**Time:           0200-0350**  
**Location:       GIRV 1108**

**Enrollment Code:   54429**

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.

My research focuses on understanding the mechanisms of past climate changes and the lesson we learn from past climate changes. Using marine and terrestrial climate archives, I reconstruct changes in past climate and examine their relationship to changes in atmospheric greenhouse gasses and Sun-Earth constellation.

[weldeab@geol.ucsb.edu](mailto:weldeab@geol.ucsb.edu)

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## Upper-Division Seminars:

**\*\*\*LAB-BASED\*\*\***

**INT 184AC: Can You Hear the Shape of the Earth?**

**Professor Toshiro Tanimoto – Earth Science**

**Day: Thursdays**

**Time: 0300-0450**

**Location: WEBB 1015**

**Enrollment Code: 54437**

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 specialty is in wave propagation and oscillations in the Earth. He has been a professor in Earth Science since 1992.

[toshirotanimoto@ucsb.edu](mailto:toshirotanimoto@ucsb.edu)

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**INT 184AD: The Digital Turn in Historical Culture**

**Professor Claudio Fogu, French and Italian**

**Day: Wednesdays**

**Time: 0500-0650**

**Location: PHELPS 5316**

**Enrollment Code: 54445**

How has digital technology changed the stories we tell about the past and how we tell them? In this seminar we will explore examples of digital history as different as the 9/11 Digital Archive, historical GISs (Geographical Information Systems), digital monuments and videogames such as Sid Meier's Civilization.

I am a cultural historian of modern Europe with an interest in the history and theory of historiography. Lately, I have been interested in evaluating how the digital turn in technology has impacted the writing and visual representation of the past as well the formation of our historical imaginary.

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**INT 184AG: Machine Learning: Foundations and Applications**  
**Professor Paul Atzberger, Mathematics**

**Day:**            **Thursdays**  
**Time:**           **1100-1250 pm**  
**Location:**       **SH 4607**  
**Enrollment Code:**   **54452**

This seminar aims to give an accessible introduction to machine learning and its practical applications in recent data-driven fields, the natural sciences, and engineering. The seminar will discuss both mathematical foundations and computational approaches underlying recent algorithmic approaches for utilizing data to make inferences, affect decisions, or build models. The seminar will discuss specific motivating applications, provide practical experiences in developing techniques, and discuss general research topics emerging in this field.

Paul J. Atzberger studied mathematics at the Courant Institute at New York University where he received his PhD in 2003. Subsequently, from 2003 - 2006 he was a postdoctoral fellow at Rensselaer Polytechnic Institute. He joined the faculty at the University of California Santa Barbara in 2006. His research is in the area of stochastic analysis and computation motivated by applications arising in the natural sciences and engineering. Additional information can be found at: <http://atzberger.org/>

[atzberg@math.ucsb.edu](mailto:atzberg@math.ucsb.edu)

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**INT 184AH: Existentialism**  
**Professor Andrew Norris, Political Science**

**Day:**            **Mondays**  
**Time:**           **1200-0150**  
**Location:**       **ELLSN 3814**

**Enrollment Code:**   **54460**

Existentialism is one of the most important and influential philosophical movements of the 19th and 20th centuries. It is centrally concerned with the meaning of life in a world in which there are no fixed and authoritative guidelines for human action. In this course we shall read selections from the most prominent authors associated with this movement, including Kierkegaard, Nietzsche, Heidegger, Sartre, de Beauvoir, and Camus. Student evaluation will be based upon one paragraph long weekly reader-response papers and two short essays.

Andrew Norris is the author of *Becoming Who We Are: Politics and Practical Philosophy* in the work of Stanley Cavell (Oxford University Press, 2107), the editor of *Truth and Democracy* (University of Pennsylvania, 2012), *The Claim to Community: Essays on Stanley*



Cavell and Political Philosophy (Stanford, 2006), and Politics, Metaphysics, and Death: Essays on Giorgio Agamben's Homo Sacer (Duke, 2005), and the author of over thirty peer-reviewed articles on authors such as Wittgenstein, Hegel, Hannah Arendt, and Michael Oakeshott.

[anorris@polsci.ucsb.edu](mailto:anorris@polsci.ucsb.edu)

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**\*\*\*EXCURSION-BASED\*\*\***

**INT 184AI: Habitat and Plant Diversity in the Santa Barbara Region: From the Mountains to the Sea**

**Professor Susan Mazer, Ecology, Evolution and Marine Biology**

**Day: Last 4 Fridays**  
**Time: 1230-0520**  
**Location: OFF CAMPUS – contact instructor**

**Enrollment Code: 54478**

This seminar consists of four 5-hour hikes (including drive time) to local wild habitats and reserves, where students will be introduced to the dominant plant species, including trees, shrubs, vines, and wildflowers, and their adaptations to our drought-prone climate. We will explore the ecology and plant diversity of chaparral, oak woodland, and beachside habitats. Participants should be physically fit and interested in learning (at least a few!) plant names!

Professor Mazer's studies the adaptations of wild plant species in their native habitats and in greenhouse experiments in order to understand the process and outcome of evolution by natural selection. She is particularly interested in the ecology and evolution of seeds,

flowers, and pollen and in plant responses to climate change. She teaches upper division courses in Plant Biology and Biodiversity (EEMB 127 and EEMB 127L), co-teaches Introductory Biology (EEMB 3) and Greenhouse Methods (EEMB 184), and works year-round with 10-15 undergraduate researchers who earn credit while conducting research (EEMB 99, 197, and 199).

[mazer@lifesci.ucsb.edu](mailto:mazer@lifesci.ucsb.edu)

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**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](mailto:sblain@ltsc.ucsb.edu)

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

November 14, 2017

**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 INT184DH should review the course requirements (see link below) and if eligible, email Dr. Stephen Blain, [sblain@tsc.ucsb.edu](mailto:sblain@tsc.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.***

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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 Winter 2018 Honors Sections.**