



Spring 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 84AJ: Mithras, Apollo and Christ: The Religious Topography of Late Antique Gaul
Professor Elizabeth Digeser - History

Day: Wednesdays
Time: 0100-0250 pm
Location: HSSB 3202

Enrollment Code: 56549

This seminar will go beyond written historical sources to explore the religious affiliations of people living in the Roman province of Gaul (now France) around the year 300 CE. Students will adopt a late Roman town and prepare projects designed to "promote" the town to the emperor for support. No background experience necessary, just an enthusiasm for archaeology, Roman ruins, Latin oratory (in translation), and a desire to learn how to map information on Google Earth.

Professor Digeser specializes in the history of ancient Rome. She is particularly interested in the late Roman Empire, religious persecution, heresy, "pagans," and the rule of the first Christian emperor, Constantine I.

edepalma@history.ucsb.edu

*****OVERNIGHT FIELD TRIP*****

INT 84ZA: Owens Valley, Mono Lake, and the LA Aqueduct
Professor Jordan Clark – Earth Science

Day: **Fridays (April 20, 27 & May 11)**
Time: **0100-0150 pm**
Location: **HSSB 2201**

Enrollment Code: 58636

This class focuses on a three-day field trip that will leave Friday morning, May 4 and return Sunday, May 6. During the trip we will stop at important sites related to the LA Aqueduct. The class will meet twice prior and once after we return from the field trip.

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

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

INT 84ZI: Plant and Habitat Diversity: An Introduction to Local Biodiversity
Professor Susan Mazer - Ecology, Evolution, and Marine Biology

Day: **Fridays (April 20, 27 & May 4, 11)**
Time: **1200-0450 pm**
Location: **LSB 4307**

Enrollment Code: 56457

We will take four field trips to nearby and stunning coastal and mountain habitats to learn about wild plant species and their adaptations to our variable and somewhat unpredictable Mediterranean climate (cool/wet winters; hot/dry summers). Field trips will include visits and somewhat strenuous hikes in chaparral, oak woodland, and stream-side plant communities in order to observe Santa Barbara's botanical diversity. Bring notebooks, water, snacks, and good walking shoes!

Dr. Mazer is a Professor of plant ecology and evolution and the Director of the California Phenology Project (www.usanpn.org/cpp/). Her research aims to detect the processes

and results of evolution by natural selection, particularly for traits that contribute to the adaptation of wild plant species to stressful environments. She has conducted field work with a wide variety of species and plant communities to detect reproductive and physiological adaptations, ranging from South American tropical rain forests to the Sierra Nevada and Coastal Ranges of California.

mazer@lifesci.ucsb.edu

INT 84ZK: Introduction to Linear Programming: The Simplex Method

Professor Gustavo Ponce - Mathematics

Day: Wednesdays
Time: 0300-0450
Location: HSSB 2201

Enrollment Code: 56465

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 programming, dynamic programming 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. An example of a problem which can be solved by using linear programming 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

*****EXCURION BASED*****

INT 84ZN: Birds of UC Santa Barbara

Professor Thomas Turner, Ecology, Evolution and Marine Biology

Days: Wednesdays

Time: 0800-0950 am

Location: Instructor will contact students about meeting locations

Enrollment Code: 58644

One of the best things about UCSB is that we are surrounded by wildlife. The more you know about this wildlife, the more you can learn from it. This course will focus on birds. In a single quarter, we are likely to hear and see over a hundred species of birds. We will learn to find them, identify them by sight and sound, and learn about biology and ecology by observing them.

Professor Turner is an evolutionary genetics professor studying behavioral evolution. His lifelong interest in natural history has been a great source of scientific inspiration and enrichment throughout his life. Upon moving to UCSB, Professor Turner learned to appreciate the diversity of avifauna in and around campus, and enjoy sharing these riches with students.

tturner@lifesci.ucsb.edu

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

INT 84ZP: Observing Behavior

Professor Michelle Brown – Anthropology

Days: Fridays

Time: 0900-1050

Location: HSSB 2018

Enrollment Code: 27581

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

*****All add codes for this course have been dispensed*****

INT 84ZR: Wild Journey

Professor John Lew, Molecular, Cellular and Developmental Biology

Day: Wednesdays

Time: 0900-1050

Location: PHELPS 2532

Enrollment Code: 58651

There is so much more to who you are than you know right now. You have all it takes for a deeply meaningful life of the greatest fulfillment, passion, and service. Yet, few of us are ever encouraged to clearly identify and develop our authentic life gifts that we are capable of offering the world. Our calling is the place where our true gifts and the needs of the world touch. Like a wild animal able to roam without boundaries, the journey to overcome all barriers to our deepest life purpose is the Wild Journey. This course will focus on how our own psyches can potentially lead as called beings into the deepest, most meaningful lives! If only we knew who we truly are “and what we are” truly meant to do! This class is experiential; **we will meet outdoors** employing Nature as a template for seeing ourselves as whole and authentic agents of potentially radical cultural change.

Dr. Lew is a professor of biochemistry and molecular biology. His research focuses on the discovery of natural molecules as potential therapeutics for Alzheimer's disease. His life passion is students, and their personal development. He sees students as the next generation of leaders and influencers, and feels deeply called to guide students into the most meaningful life possible. Dr. Lew has trained with Animas Valley Institute specifically in wilderness and nature-based approaches to mature human development.

lew@lifesci.ucsb.edu

INT 84ZW: Past, Present, and Future Climate Changes: a Geological Perspective

Professor Syee Weldeab, Earth Science

Day: Fridays

Time: 0200-0350

January 31, 2018

Location: GIRV 1108

Enrollment Code: 56473

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 we learn 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

INT 84ZY: Don Quixote. A Vision of the World
Professor Antonio Cortijo – Spanish and Portuguese

Day: Wednesdays
Time: 0800-0950
Location: HSSB 1232

Enrollment Code: 56481

This seminar provides a first approach to Don Quixote and some of the major issues raised by the novel: the status of reality, idealism vs. realism, knowledge vs. opinion, as well as a historical contextualization of Cervantes' work.

Author of over 50 monographs and editions, Professor Cortijo specializes in Early Modern history and literature, including religious history, history of the Inquisition, Spanish American history, etc.

cortijo@spanport.ucsb.edu

Upper-Division Seminars:

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 INT184DH 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.

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 Spring 2018 Honors Sections.