



Spring 2020 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 are not required for most Honors Seminars, with a few exceptions (if you are prompted for an add code, please contact the **instructor for more information**)

*Honor seminars are for 1st-2nd year (lower-division standing), Honors Students. If you are an Honor student that entered UCSB with a high number of pre-matriculation units (either through AP or CC transfer work) – and thus have already reached upper division status – cannot register for these seminars because they exceed the course level limit. In an effort to accommodate these students, we have created a Google form that we will use to provide students access to enroll themselves (i.e. Via GOLD bypass, or via add code).

Please use this link for the form: <https://forms.gle/xzJiB6i9HdyymJDJ8>

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

INT 84BB

- **Title:** Physical Intelligence: The Science of Thinking without Thinking
- **Instructor:** Scott T Grafton
- **Instructor Email:** stgrafton@ucsb.edu
- **Department:** Psychological & Brain Science
- **Day - Time - Room:** Wednesday 2:00-3:50 in PSY-E 3834
- **Enroll Code:** 57307

Course Description: Much of our life is spent in action: we physically pursue our goals by doing rather than sitting idle. It is easy to take for granted the vast intelligence necessary to move, create and problem solve as it can be accomplished almost effortlessly. And yet, without it, we would not exist. Physical intelligence and the brain systems that sustain it are remarkably evolved capacities. Using insight from patients, brain scans, observations of developing children and sophisticated experiments in animals, the seminar will explore classic properties of this enabling intelligence.

Bio: Scott Grafton MD holds the Bedrosian-Coyne Presidential Chair in Neuroscience at University of California, Santa Barbara (UCSB). He received BA's in Mathematics and Psychobiology at the University of California at Santa Cruz in 1980 and an MD at University of Southern California (USC) in 1984. After completing residency in Neurology at University of Washington (1988) he completed a Nuclear Medicine residency and functional imaging research fellowship, at University of California at Los Angeles (1991). He was a faculty member and

developed brain imaging programs in the Schools of Medicine at USC, Emory University and Dartmouth College before joining the faculty at UCSB in 2006, where he directs the UCSB Brain Imaging Center. He directs an interdisciplinary research program at the interface of learning theory, the organization of skilled action, network science, and multimodal brain imaging. He is recognized for developing novel analysis tools that are used to characterize plasticity and learning, particularly in the human motor system. Clinically, these tools are also being used to identify changes in brain connectivity during stroke recovery, after mild traumatic brain injury and after repeated sub-concussive head impacts that are part of normal athletics. He is Co-Director at the Institute for Collaborative Biotechnologies, which draws on bio-inspiration and innovative bioengineering solutions for both non-medical and medical challenges posed by the defense and medical communities.

INT 84BC

- **Title:** Yoga: Theory, Practice, Culture
- **Instructor:** Roberto Strongman
- **Instructor Email:** rstrongman@ucsb.edu
- **Department:** BLST
- **Day - Time - Room:** Friday 2:00-3:50 in GIRV 2120
- **Enroll Code:** 62430

Course Description: Yoga is a Sanskrit term that can be best translated as "Integration." The course aims to develop an integral understanding of the history of yogic knowledges with roots in South Asia, creolization with XIX Century European body culture during the era of British imperialism, and a capitalist and often culturally-appropriative global spread in the late XX Century and beyond. This historical and philosophical material will be "yoked" (a cognate of "yoga") with a physical asana practice: the class will be organized in weekly two-hour sessions, with the first hour devoted to lecture, presentation, discussion and journal writing and the second hour to a physical postural and breathing practice thematically wedded to the readings. As such, the deeper, even metaphysical, goal of the course will be to bring "union" to the budding scholar, fomenting a balanced, equanimous and holistic body-mind.

Bio: Ph.D. Literature (UCSD 2003). I am a scholar of embodiment, specializing in trance states. My latest book "Queering Black Atlantic Religions" (Duke UP, 2019) speaks to my interest in fomenting an awareness of the unity within the body-mind construct, the goal of "yoga." In addition to my academic credentials, I am also a certified yoga instructor at the 500-hour level (the highest recognizable credential in the field).

INT 84BI -CANCELLED

- **Title:** What is Nature?
- **Instructor:** Volker M Welter
- **Instructor Email:** welter@arthistory.ucsb.edu
- **Department:** History of Art & Architecture
- **Day - Time - Room:** Wednesday 12:00-1:50 in HSSB 4201
- **Enroll Code:** 57539

Course Description: We recognize nature when we see it, yet trying to describe it leads to vexing questions. What separates nature from artifacts? Is nature always 'good' and 'organic' better? What about humanity's ingenuity in designing the 'artificial' (art, architecture, technology)? This seminar will read and discuss historic and contemporary Western accounts of nature, the natural, and their opposites.

Bio: Professor Volker M. Welter teaches modern architectural history and theory in the Dept. of the History of Art & Architecture. One of his interests is the often strenuous relationship between architecture and the natural world, and how architecture and design can manipulate nature for good or bad.

INT 84BJ

- **Title:** How Muslims, Jews, and Christians lived together (Intellectual and Social History of the Iberian Peninsula)
- **Instructor:** Antonio Cortijo
- **Instructor Email:** cortijo@ucsb.edu
- **Department:** Spanish and Portuguese
- **Day - Time - Room:** Friday 9:00-10:50 in HSSB 3201
- **Enroll Code:** 57547

Course Description:

Course Description: This seminar explores the intellectual and social history of the Iberian Peninsula through the ages. Particular attention will be paid to the fact the the Iberian Peninsula was unique in that it allowed different religions (Islam, Judaism, Christianity) to live together for over 800 hundred years and this has shaped the development of Spain as a modern European nation. In addition, attention will be paid to the Spanish creation of a the first modern globalized economy in the 16th-17th centuries by incorporating the American, East-Asian and European markets. From the Middle Ages to the contemporary European Union, issues of religion, "convivencia" (co-existence), nationalism, and economy will be explored.

Bio: Antonio Cortijo Ocaña 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. He 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 50 books.

INT 84BK

- **Title:** Great experiments of particle physics
- **Instructor:** Claudio Campagnari
- **Instructor Email:** claudio@physics.ucsb.edu
- **Department:** Physics
- **Day - Time - Room:** Friday 12:00-1:50 in HSSB 2201
- **Enroll Code:** 57554

Course Description: Learn about the key experiments that have led to the development

of the Standard Model of particle physics, from the discovery of parity violation in the 1950s, to the that of the Higgs boson a few years ago by reading the original papers. For each topic, the instructor will present some of the relevant background information, and then

students will take turns leading the discussion of the corresponding paper.

Bio: Claudio Campagnari has a PhD in experimental particle physics from Yale University and has been teaching at UCSB since 1994.

He is currently a member of the CMS collaboration at the Center for European Nuclear Research (CERN) in Geneva, Switzerland.

Highlights of his career include working on some of the data analyses that led to the discovery of the top quark and the Higgs boson.

More information at <http://hep.ucsb.edu/people/claudio/claudio.html>

INT 84BM

- **Title:** Critical Thinking in science and beyond
- **Instructor:** Norbert Reich
- **Instructor Email:** reich@chem.ucsb.edu
- **Department:** chemistry and biochemistry
- **Day - Time - Room:** Monday 9:00-10:50 in Chem 1005D
- **Enroll Code:** 57562

Course Description: We will read diverse papers on this topic, discuss these, and help design and run a science outreach module for K-12 students.

Bio: Biochemist studying epigenetics and drug design, also interested in improving education at all levels.

INT 84BN

- **Title:** James Joyce's Ulysses: The Greatest Book
- **Instructor:** Enda Duffy
- **Instructor Email:** duffy@english.ucsb.edu
- **Department:** English
- **Day - Time - Room:** Friday 10:00-11:50 in SH 2714
- **Enroll Code:** 57570

Course Description: In this class, we will read together the greatest novel of the Twentieth century: James Joyce's Ulysses. A novel set on a single day, June 16 1904, and which took Joyce seven years to write, the book is brilliant, exasperating, controversial, mind-bogglingly funny and truly revolutionary. Every college student should read it to complete your education: it will change your life.

Bio: Enda Duffy, born and educated in Ireland, has written a book on Ulysses and many articles on Joyce, modernism and Irish culture. His most recent book is 'The Speed Handbook: Modernism, Velocity, Pleasure.' He is Arnhold Presidential Chair of the English Dept., UCSB.

INT 84BO

- **Title:** Literature and Politics
- **Instructor:** Silvia Bermúdez
- **Instructor Email:** bermudez@spanport.ucsb.edu
- **Department:** Spanish and Portuguese
- **Day - Time - Room:** Tuesday 3:00-4:50 in HSSB 2251
- **Enroll Code:** 62182

Course Description: This seminar examines authors/political and cultural figures vis-à-vis major literary, musical, and filmic works from Latin America and the Iberian Peninsula (particularly those in Spanish and Galician) from the late 19th Century to the present by considering them in their historical and political contexts. By so doing, "Literature and Politics" invites students to explore diverse and enduring social issues and political concerns such as national identity and "belonging," migration, borders, censorship, equal rights, gender violence, among others.

Bio: Silvia Bermúdez is Professor of literature and cultural studies in the Department of Spanish and Portuguese where she teaches courses on contemporary Iberian Studies, popular music, and poetic discourses. Her two recent publications are the book Rocking the Boat: Migration and Race in Contemporary Spanish Music and of the co-edited volume Cartographies of Madrid: Contesting Urban Space at the Crossroads of the Global South and Global North

INT 84BP

- **Title:** Fourier series and approximation of functions
- **Instructor:** Gustavo Ponce
- **Instructor Email:** ponce@math.ucsb.edu
- **Department:** Mathematics
- **Day - Time - Room:** Thursday 3:00-4:50 in HSSB 1237
- **Enroll Code:** 62208
- *****Math 4A is a pre-requisite**

Course Description: Starting with the idea of orthonormal basis we introduce the Fourier series. We discuss different forms in which the convergence of the Fourier series can be considered. Several applications will be deduced. We generalize this idea to orthonormal polynomials and study both as solutions of self-adjoint boundary value problems. Finally, we examine other possible approximation by polynomials, including Taylor polynomials, interpolation polynomials and Weierstrass theorem. We shall emphasize applications and explicit computations over rigorous proofs.

Bio: [please see my webpage](#)

INT 84BQ

- **Title:** How Do You Know That?: Writing and Epistemology in the University
- **Instructor:** James Donelan
- **Instructor Email:** donelan@ucsb.edu

- **Department:** Writing Program
- **Day - Time - Room:** Monday 1:00-2:50 in HSSB 3202
- **Enroll Code:** 62471

Course Description: This seminar addresses the fundamental questions of knowledge and communication in the university as well as their practical consequences for academic study. Students will be asked to read brief selections on epistemology and disciplinary methodology while they reflect on the practices of their own disciplines. These considerations will become part of individual research proposals that students may want to pursue later in their careers.

Bio: James H. Donelan is the Associate Director of the UCSB Writing Program, and teaches advanced writing in the law, the humanities, and the social sciences. He received his BA and Ph.D. in Comparative Literature from Yale University in 1985 and 1993. He teaches and conducts research in a number of fields, but his main interest is in interdisciplinary approaches to rhetoric and the arts, especially in poetry and music.

INT 84BR

- **Title:** Urban Ritual: The Santa Barbara Summer Solstice Parade
- **Instructor:** William Elison
- **Instructor Email:** welison@ucsb.edu
- **Department:** Religious Studies
- **Day - Time - Room:** Friday 11:00-12:50 in HSSB 4202
- **Enroll Code:** 62901

Course Description: This honors seminar is designed as a fieldwork project, a collaboration with the Santa Barbara Summer Solstice Celebration. We will combine the study of urban rituals like carnivals and pilgrimages with hands-on experience helping to produce Santa Barbara's own carnivalesque urban event, the Solstice Parade. The first seminar meetings will focus on academic readings about urban rituals, taken primarily from ethnographic studies. The scene of the action will shift later in the quarter to the downtown workshop of the Solstice Celebration, where we will work together on designing and constructing a float: the first entry by a team of UCSB students in the parade's 46-year history! It is highly recommended that students enrolling in this seminar arrange to stay in Santa Barbara through June 20 so they can participate in the parade downtown.

Bio: WILLIAM ELISON is an associate professor in the Department of Religious Studies at the University of California, Santa Barbara. He specializes in the study of religion in South Asia—specifically, modern India—from an ethnographic perspective. His interests include cities, especially Mumbai; Adivasi (ST or “tribal”) communities; Hindi popular cinema (“Bollywood”); questions of subalternity; urban ritual; and ethnographic fiction. He is the author of *The Neighborhood of Gods: The Sacred and the Visible at the Margins of Mumbai* (Chicago, 2018), and a coauthor (with Christian Lee Novetzke and Andy Rotman) of *“Amar Akbar Anthony”: Bollywood, Brotherhood, and the Nation* (Harvard, 2016).

INT 84BS - CANCELLED

- **Title:** Deconstructing Research in Experimental Physics
- **Instructor:** Georgios Koutroulakis

- **Instructor Email:** gkoutrou@physics.ucsb.edu
- **Department:** Physics
- **Day - Time - Room:** Monday 3:00-4:50 in HSSB 3202
- **Enroll Code:** 62919

Course Description: This course is geared towards sophomores and motivated freshmen who want to acquire some first-hand knowledge about active research in experimental physics without spending time in the lab. The ultimate goal of the course is dual: to educate students on topics directly researched in the Physics department and teach them about common experimental methods, while promoting collaborative work and self-learning.

Bio: Dr. Koutroulakis, a native of Greece, completed his Ph.D. at Brown University in the field of experimental condensed matter Physics. He then performed postdoctoral research at the Los Alamos National Lab and UCLA, before starting teaching full-time initially at UCLA and now at UCSB.

INT 84BT

- **Title:** Of Humian Bondage
- **Instructor:** Paul Sonnino
- **Instructor Email:** PMSonnino@aol.com
- **Department:** History
- **Day - Time - Room:** Tuesday 3:00-4:50 in HSSB 1237
- **Enroll Code:** 63040

Course Description:

In a century when we seem to have lost touch with every criterion for distinguishing fake news from news we can rely on, there is still the possibility of meeting with a philosopher who can teach us how to identify fake news when we hear it. That philosopher is David Hume, an eighteenth century Scottish gentleman who confronted the limitations of the human mind and wrote a little book about them, but was so scared to be accused of atheism that he kept his frank opinions in his desk and they only came out after his death.

In this little book, the Discourses Concerning Natural Religion, an undergraduate writes to a friend describing a conversation he witnessed between three philosophers on whether one could prove the existence of God simply by using one's reason or whether one had to take it on faith, neither of which is the definition of atheism. but as these philosophers argue, it turns out that the question is the more practical one of the limits of human knowledge; in other words, whether the debate between "FAKE news" and "REAL news" is a badly posed question.

What we shall do in this course is to discuss the arguments in this book chapter by chapter, write a short essay on the result of each discussion as we go along, and in the process learn how to weigh evidence by writing clearly and distinctly about it. For the take home final, we will write a longer essay, on the implications of what Hume is saying. If the student understands him, the student will become aware of his keys to processing the avalanche of rhetoric with which we are bombarded in our daily life.

Bio: Paul Sonnino is a specialist on historiography, and has recently published *The Search for the Man in the Iron Mask: a Historical Detective Story*, which applies his ideas on how to approach the problem of fake news to his solution to this three hundred-year-old mystery.

INT 84ZB

- **Title:** Causes and Consequences of Sea Level Rise: A Geologic Perspective
- **Instructor:** Alexander Simms
- **Instructor Email:** asimms@geol.ucsb.edu
- **Department:** Earth Science
- **Day - Time - Room:** Thursday 4:00-4:50 in ELLSN 2816
- **Enroll Code:** 27508

Field Trip

Course Description: This seminar will discuss 1.) how past sea-level changes are reconstructed and 2.) how sea has changed in the past. It will include a camping fieldtrip.

Bio: Alex Simms has nearly 20 years of experience reconstructing past sea levels across the globe including Antarctica, Scotland, Texas, and California.

INT 84ZR -CANCELLED

- **Title:** Wild Journey
- **Instructor:** John Lew
- **Instructor Email:** lew@lifesci.ucsb.edu
- **Department:** MCDB
- **Day - Time - Room:** Friday 11:00-12:50 in HSSB 3201
- **Enroll Code:** 27532
- ***Please contact the instructor for add-code and approval into the seminar - lew@lifesci.ucsb.edu**

Course Description: There is so much more to who you are than you know... You have all it takes for a deeply meaningful life of the greatest fulfillment, passion, and service. Yet, few of us are taught how to identify and develop our authentic life gifts to offer the world. Where our true gifts and the needs of the world touch... is our Calling. Like a wild animal able to roam without boundaries, the journey that transcends all barriers to our deepest life purpose is the Wild Journey. This seminar course will focus on how our own psyches can potentially lead us as called beings into the deepest, most meaningful lives... if only we knew who we truly are – and what we're 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

Bio: 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 is a wilderness-based self-awareness guide who trains extensively with Animas Valley Institute specifically in the area of nature-based approaches to mature human development.

INT 184PD

- **Title:** Introduction to Clinical Medicine
- **Instructor:** Paul Douglas
- **Instructor Email:** pdouglas@ucsb.edu
- **Department:** L&S
- **Day - Time - Room:** TBD
- **Enroll Code:** 27862

Course Description: This course is designed to provide students interested in a medically related career an introduction to clinical medicine. Open to 3rd and 4th year students 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 prehealthinfo@ltsc.ucsb.edu

<https://healthsciences.duels.ucsb.edu/student/honors>

INT 184DH

- **Title:** Introduction to Clinical Medicine
- (This course is for those who have already taken INT 184PD)**
- **Instructor:** Paul Douglas
 - **Instructor Email:** pdouglas@ucsb.edu
 - **Department:** L&S
 - **Day - Time - Room:** TBD
 - **Enroll Code:** 27847

Course Description: This course is designed to provide students interested in a medically related career an introduction to clinical medicine. Open to 3rd and 4th year 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 prehealthinfo@ltsc.ucsb.edu

<https://healthsciences.duels.ucsb.edu/student/honors>

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