



Winter 2014 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.**

Professors may view your eligibility via GOLD's Registration Info, or may email Honorsmail@Ltsc.ucsb.edu. 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 84PD: Orientation to Biomedical Research and the Practice of Medicine
Professor Thomas Weimbs – Molecular, Cellular & Developmental Biology

Day: Wednesdays
Time: 3:00-4:50 pm
Location: check GOLD for details

Enrollment Code: 26955

This course is designed to provide students interested in a career in medicine an introduction to biomedical research and clinical medicine. Through a series of lectures, university researchers, practicing physicians, physicians-in-training, and other healthcare providers will discuss their careers, training, and topics critical to their daily work, providing students with valuable insight into potential future careers. The course will serve as preparation for participation in undergraduate on-campus research and off-campus clinical experience. The seminar is aimed for students who are in their second year at UCSB with either sophomore or junior standing, and they will be given preference for enrollment.

Dr. Weimbs received his doctoral degree from the University of Cologne, Germany, conducted postdoctoral research at UCSF, and joined the Cleveland Clinic as an Assistant

Professor before moving to the MCDB department at UCSB in 2005. He is currently an Associate Professor and his laboratory conducts research on the molecular mechanisms underlying polycystic kidney disease.

Email: weimbs@lifesci.ucsb.edu

Upper-Division Seminars:

INT 184AL: Power and Evil in Modern History: Two Case Studies, Stalin and Hitler

Professor Emeritus Albert Lindemann - History

Day: Wednesdays
Time: 2:00-3:50 pm
Location: check GOLD for details

Enrollment Code: 27243

Lord Acton famously commented that “power tends to corrupt and absolute power to corrupt absolutely.” He added that “Great men are almost always bad men.” The seminar will consider the implications of those comments, examining the lives of two supremely evil men in modern history, Josef Stalin and Adolf Hitler -- in particular how much absolute power can be said to have been responsible for the horrors committed under their rule. In a related way: Were they born evil, or did experiences during their lives form them into evil men?

Dr. Lindemann earned his PhD at Harvard and taught at Stanford before coming to UCSB. He is the author of seven books on modern European history, primarily the history of socialism and of anti-Semitism and is the Winner of Academic Senate's Outstanding Teacher of the Year.

Email: lindeman@history.ucsb.edu

INT 184DC: Biotechnology of Seaweeds and Phytoplankton. Past, Present and Future

Professor Emeritus David Chapman - Ecology Evolution & Marine Biology

Day: Wednesdays
Time: 1:00-2:50 pm
Location: check GOLD for details

Enrollment Code: 27250

The seminar covers the full spectrum of algal biotechnology. Topics covered include use of algae as a source of cosmoceuticals, nutraceuticals, pharmaceuticals and biofuels. An essential component, are discussions of what has been done, what is currently underway and where is the future. What are the problems and pitfalls and what have we learned in these regards. A discussion of the economics involved is a key component of the discussions. The seminar will be very similar to the previous seminars given in Winter and Fall 2012, 2013 as INT 184DC

Dr. Chapman received his PhD in Marine Biology. He has specialized in seaweed and phytoplankton research and has covered the full spectrum of algal research from fossil algae through taxonomy, evolution, ecology, physiology, biochemistry, chemistry and their biotechnology. His courses taught on algae have covered the full spectrum of algal biology

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COURSE HAS BEEN CANCELLED

INT 184DL: Variational Principles in Mathematics, Physics, and Sciences
Professor Denis Labutin – Mathematics

Day: Mondays
Time: 3:00-4:50 pm
Location: check GOLD for details

Enrollment Code: 64907

Such diverse equations in modern sciences as Einstein equations in general relativity, Yang-Mills and Maxwell equations in field theory, free boundary problems in engineering, and many others share a fundamental common feature. All of them follow from the variational (Euler-Lagrange) principle in different manifestations. Interestingly enough, understanding the main variational ideas and calculations requires essentially just the knowledge of the multivariable calculus (5B). The first objective of the seminar is to understand the basics of the variational calculus and the derivation of the fundamental equations in sciences. In contrast with experimental subjects, it is difficult to get a taste of the research work in theoretical areas of sciences and engineering at the college level. The second objective of the seminar is to give the participants an idea how theoretical research is done in science. There will be two groups of assignments. The first group consists of the specific problems from the reader which I will prepare. The (individual) assignments from the second group involve working with an article from a research journal or scientific monograph. Here is an example of such an assignment: In the paper "On variation of metrics", Math.Scand. vol.29, pp. 317-327, the author derives the Einstein equations considering a special variation on p. 319. Provide the detailed

calculations showing how the last (main) equation on that page follows from the previous one.

Denis Labutin obtained the PhD from Australian National University in 2000. His research interests lie in nonlinear partial differential equations.

Email: labutin@math.ucsb.edu

INT 184JP: Law and Disobedience
Professor John Park - Asian American Studies

Day: Fridays
Time: 10:00-11:50 am
Location: HSSB 5024

Enrollment Code: 59246

This honors seminar explores various forms of disobedience in American public law, primarily in circumstances involving people of color. We discuss resistance to slavery, race-based segregation, and race-based immigration rules, among other topics. All readings will be posted on-line.

Dr. Park's research topics include immigration law and policy, political theory, and American public law. The honors seminar draws from themes he has explored in his third book, *Illegal Migrations and the Huckleberry Finn Problem* (2013).

Email: jswpark@asamst.ucsb.edu

JUST ADDED

INT 184KF: Behind the Latest Breakthroughs - How the Media Reports and the Public Learns About the Latest Science
Professor Kathy Foltz - Molecular, Cellular & Developmental Biology

Day: Tuesdays
Time: 12:30-2:20 pm
Location: Marine Biotechnology Lab (BLDG 555), Room 3103

Enrollment Code: 64899

Each day reveals a new "breakthrough" in biomedical science: a cure for a disease, or the results of a study about consumption of wine, chocolate, or coffee and dementia. Masked behind the hype and the hope of these headlines lies the real science. We will read, critique and discuss current literature in the cell/molecular biosciences that spawns news stories in the popular press. Most of these will have a biomedical slant. Students will identify and critique real-time news media releases, popular science writing, and the

primary research literature in an attempt to dissect the "science" from the "spin." The over-arching goal of the course is to increase biomedical research literacy at the level of the citizen-voter. Students will learn about the scientific research process and what distinguishes epidemiological studies, clinical trials, and basic research. Students will learn how to navigate PubMed and assess internet sites for validity and proper citation links.

Kathy Foltz is an Associate Professor in the Department of Molecular, Cellular and Developmental Biology. Her research focuses on how eggs are fertilized and transition to embryos using a variety of marine invertebrates as model systems. She teaches a variety of lower and upper division courses in both MCDB and in CCS Biology. She is a participant in the HHMI Undergraduate Science Initiative to improve STEM education at UCSB. Students in her courses can expect to be challenged as active learners and become full partners in their education.

Email: kathy.foltz@lifesci.ucsb.edu

INT 184PD: Introduction to Clinical Medicine

This course is designed to provide students interested in a career in medicine an introduction to clinical medicine. Students will take a series of orientation sessions, followed by participation in off-campus clinical experience. Upper-division standing and consent of instructor required. Hours for orientation sessions are to be arranged individually. Internships are competitive.

Please go online to make an appointment, as part of the application process, with Dr. Stephen Blain:

<http://www.duels.ucsb.edu/advising/outside-credit>

INT 184VW: What is Beauty?

Professor Volker M. Welter – History of Art & Architecture

Day: Mondays
Time: 12:00-1:50 pm
Location: check GOLD for details

Enrollment Code: 59253

Many of us recognize beauty when we see it. Yet when we try to describe it, it often eludes us. This seminar will read and discuss classic texts on beauty, especially in relation to art and architecture by, for example, Plotinus, Johann Joachim Winkelmann, Edmund Burke, Ralph Waldo Emerson, Louis H. Sullivan, Elaine Scarry, etc.

Professor Volker M. Welter PhD (Univ Edinb) teaches modern architectural history and theory in the Dept. of the History of Art & Architecture. His teaching focuses, in particular, on the aesthetics of architecture, and the often strenuous relationship between architecture and the natural world, and the beauty architecture can add to the latter. He is also fascinated by Utopian thought that has inspired many architects and designers to propose visionary cities and societies of tomorrow.

E-mail: welter@arthistory.ucsb.edu

COURSE HAS BEEN CANCELLED

INT 184ZA: Text and the Actor
Professor Michael Morgan - Theater and Dance

Day: n/a
Time: n/a
Location: n/a

Enrollment Code: n/a

This course utilizes Shakespeare sonnets and monologues to give students the tools of poetics and scansion to enable them to analyze and speak elevated text with respect to form in order to deepen the connection to content. The goal is to encourage a passion for words and 'naturalness' of expression.

Michael Morgan [senior lecturer] teaches voice, speech, stage dialects, scansion and text. He has taught at Yale School of Drama, Temple University, Walnut Street Theater, Theatre Conservatorium in Brussels, Royal Conservatoire in Liege, Arena Stage, Neighborhood Playhouse, University of Hawaii, American Academy of Dramatic Art, UCSD, Pepperdine University, and Cal Arts.

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Please see the Section list online Winter 2014 Honors Sections.