

**ALS 199H U-ENGAGE, Explore, Evolve with the UHC**

CRN: 18025 Section 001 LEC R 1700 - 1850 2 UHC Credit(s)

Instructor(s): LeeAnn Baker

In this course you will be challenged to ENGAGE, EXPLORE, and EVOLVE within a collaborative, and supportive Honors community. You will ENGAGE with various faculty, services, and resources that OSU has to offer, EXPLORE your interests and career goals in depth, and EVOLVE your skills in communication, and critical thinking. This course will guide you through the beginning stages of the UHC Thesis, laying the ground work for a successful thesis experience. The course is team taught by faculty and peer leaders. Students must be in their first year, first term at OSU. Satisfies 1 credit towards Thesis & 1 credit towards Elective. This course also satisfies the TheSIS START and LEARN component. **Graded: P/N Satisfies: UHC Elective/Thesis**

**ANS 121H Introduction to Animal Science**

CRN: 16864 Section 001 LEC MWF 1000 - 1050 4 UHC Credit(s)  
AND  
CRN: 16865 Section 010 LAB T 1400 - 1550

Instructor(s): Matt Kennedy & Dawn Sherwood

Principles of breeding, physiology, nutrition, and management as they apply to modern livestock and poultry production. Current issues affecting livestock and poultry production will be researched and discussed in class. Students will prepare and present oral and written information on the breeds of livestock and poultry. Hands-on opportunities with the various species will be provided in the laboratory sessions. **Course Fee \$55.00 Satisfies: Bacc Core - Biological Sciences**

**ANTH 447H Arctic Perspectives on Global Problems**

CRN: 20209 Section 001 LEC TR 1000 - 1150 4 UHC Credit(s)

Instructor(s): Drew Gerkey

The Arctic is on the frontline of today's most pressing global problems. This course uses Arctic perspectives to explore issues affecting us all: climate change, environmental conservation, traditional ecological knowledge, development, energy extraction, indigenous rights, and indigenous media. Using insights from Arctic perspectives, we will plot pathways toward potential solutions. **Satisfies: Bacc Core - Cultural Diversity**

**BB 314H Cell and Molecular Biology**

CRN: 20739	Section 001	LEC	TR 1400 - 1520	2 UHC Credits
AND				
CRN: 20740	Section 010	REC	R 1000 - 1050	
AND				
CRN: 20742	<b>BI 405H</b> - Sec. 001	RES	R 1000 - 1050	

Instructor: Indira Rajagopal

Crosslisted with BI 314H. Fundamental concepts of prokaryotic and eukaryotic cell biology. Emphasizes cell structure and function at the molecular level. This Honors recitation will focus on recent research. Students will read and discuss recent articles and write research papers on topics of special interest. Lecture common with non-Honors. Recitation is reserved for UHC students enrolled in lecture section of BI 314H. The optional BI 405H credit provides an additional credit for research done during the lab section. Lecture, recitation, and research total 5 OSU credits. Grades will be determined as follows: Exams (2 midterms and a final) 60%; Recitations (Reading, discussion, research paper, etc.) 40%. PREREQS: (BI 211/211H) and (BI 212/212H) and (BI 213/213H) and (CH 331 or CH 334). CH 331 or CH334 may be taken concurrently to this course. Satisfies: **UHC Elective**

**BI 211H Principles of Biology**

CRN: 17819	Section 001	LEC	MWF 1300 - 1350 & Group Midterm M 1900-2020	4 UHC Credit(s)
AND				
CRN: 13762	Section 010	LAB	M 1400 - 1650	Indira Rajagopal
OR				
CRN: 14934	Section 011	LAB	R 800 - 1050	Nathan Kirk

Instructor(s): Nathan Kirk & Indira Rajagopal

Origins of life, energy transformations, plant and animal physiology. PREREQS: General Chemistry (may be taken concurrently). This course is for life science majors and pre-professional students. **Course Fee \$29.00** Satisfies: **Bacc Core - Biological Sciences**

**BI 314H Cell and Molecular Biology**

CRN: 20734	Section 001	LEC	TR 1400 - 1520	2 UHC Credits
AND				
CRN: 20735	Section 010	REC	R 1000 - 1050	
AND				
CRN: 20742	<b>BI 405H</b> - Sec. 001	RES	R 1000 - 1050	

Instructor: Indira Rajagopal

Crosslisted with BB 314H. See BB 314H for course description. Satisfies: **UHC Elective**

**CBEE 101H CHE, BIOE and ENVE Orientation**

CRN: 15758	Section 001	LEC	M 1800 - 1850	2 UHC Credit(s)
AND				
CRN: 15759	Section 010	REC	F 1500 – 1650	
AND				
CRN: 15760	Section 012	LAB	W 1500 - 1650	

Instructor(s): Skip Rochefort

Introduction to the Chemical, Biological, and Environmental Engineering professions for first year and transfer students. The primary purpose is to introduce students to the fields of chemical, biological, and environmental engineering and career opportunities within those fields, as well as to develop basic skills for a career in engineering. Lecture is common with non-honors, recitation and lab are reserved for UHC students enrolled in the lecture section of CBEE 101H. Lecture, recitation, and lab total 3 OSU credits. **Satisfies: UHC Elective**

**CBEE 211H Material Balances and Stoichiometry**

CRN: 19068	Section 001	LEC	MF 1200 - 1250	1 UHC Credit(s)
AND				
CRN: 19069	Section 010	REC	T 1400 – 1450	
AND				
CRN: 19070	Section 011	STD	W 1700 – 1750	

Instructor(s): Phil Harding

Material balances, thermophysical, and thermochemical calculations. Lecture Sec. 001 and Recitation 010 is common with non-honors, the studio is reserved for UHC students enrolled in the lecture and recitation section of CBEE 211H. Students must enroll in CBEE 211H lecture, recitation, and studio. Lecture, recitation, and studio total 3 OSU credits. PREREQ: MTH 252/252H. **Satisfies: UHC Elective**

**CH 231H Honors General Chemistry****CHOOSE ONE LECTURE AND ONE OF THE CORRESPONDING RECITATION SECTIONS**

CRN: 20785	Section 001	LEC	MWF 1200 - 1250	4 UHC Credit(s)
AND				
CRN: 20787	Section 010	REC	T 1100 – 1150	
OR				
CRN: 20788	Section 011	REC	R 1400 - 1450	

**CHOOSE ONE OF THE LABORATORY SECTIONS****CH 261H**

CRN: 16859	Section 010	LAB	T 1200 - 1450	1 UHC Credit(s)
OR				
CRN: 16860	Section 011	LAB	R 1500 – 1750	

Instructor(s): Vincent Remcho & Michael Burand

This is the first course in a General Chemistry sequence for Honors College students with one year of high school chemistry. This sequence examines the characteristics of molecular and atomic behavior and the way in which these influence chemical properties and reactions. PREREQ: One year of high school chemistry and acceptable aptitude test scores. CH 231H and CH 261H must be taken concurrently. **Course Fee \$30.00 Satisfies: Bacc Core - Physical Sciences**

**CH 361H Experimental Chemistry I**

3 UHC Credit(s)

CRN: 13064 AND	Section 001	LEC	T 1300 - 1350
CRN: 13065 OR	Section 011	LAB	T 1400-1650 & R 1300-1650
CRN: 13066 AND	Section 002	LEC	W 1300 – 1350
CRN: 13067	Section 021	LAB	W 1400-1650 & F 1300-1650

Instructor(s): Kevin Gable &amp; Emile Firpo

First term of the integrated laboratory program for chemistry majors and biochemistry/biophysics majors, combining first hand techniques in organic, physical, and analytical chemistry. This is an advanced chemistry laboratory emphasizing organic chemistry techniques, use of instrumentation and computers, along with technical report writing. Students develop critical thinking skills and learn essential technical standards of: acidification, filtration, weighing, titration, recrystallization, melting point determination, organic synthesis of water sensitive compounds, product isolation, fractional distillation, gas chromatography, and scientific data analysis using spreadsheets. Each student will keep a legal scientific laboratory notebook and receive training in proper use of chemicals, chemical fume hoods, Personal Protective Equipment (PPE), and how to determine chemical hazards using Material Safety Data Sheets (MSDS). PREREQ: (CH 221, CH 222, & CH 223) OR (CH 224H, CH 225H, & CH 226H) OR (CH 231/231H, CH 232/232H, CH 233/233H & (CH 261/261H OR CH 271), (CH 262/262H OR 272), & (CH 263/263H OR 273)) and COREQS: MTH 251/251H and (PH 201 or PH 211) and CH 334. Only Chemistry, Biochemistry and Biophysics majors/minors/options may enroll. Contact the Chemistry department for registration. **Non-Refundable Course Fee \$44.00. Satisfies: UHC Elective**

**CH 461H Experimental Chemistry II**

CRN: 13464 AND	Section 001	LEC	T 1300 - 1350	3 UHC Credit(s)
CRN: 13494	Section 010	LAB	T 1400-1650 & R 1300-1650	

Instructor(s): Christine Pastorek

Integrated laboratory for junior level chemistry majors and related disciplines concentrating on modern techniques in analytical chemistry. Students learn the basics of scientific instrumentation by building their own absorption and fluorescence spectrometers from electronic and optical modules. Firsthand experience is also gained using a variety of commercial instrumentation, such as diode array UV-Vis, scanning fluorimeter, HPLC, AA and ICPAES. Real samples are analyzed throughout the term, and a special project of the student's design is a final highlight. See the course web page for examples of past projects. PREREQS: CH 362/362H & CH 421 & CH 440. CH 421 and CH 440 can be taken simultaneously to this course. Contact the Chemistry department for registration. **Non-Refundable Course Fee \$44.00. Satisfies: UHC Elective**

**CH 464H Experimental Chemistry II**

CRN: 13068 Section 001 LEC M 1300 - 1350 3 UHC Credit(s)  
AND  
CRN: 13465 Section 011 LAB M 1400-1650 & W 1300-1650  
Instructor(s): Chong Fang

Senior level integrated laboratory for chemistry majors and related disciplines such as biochemistry, physics, and engineering. Covers experimental techniques of analytical, organic, inorganic, and physical chemistry, with the emphasis on the latter two. Consists of three projects: Project 1 – Synthesis and Equilibrium of HCl, DCl, DBr, and HBr; Project 2 - Synthesis and Characterization of CdSe Quantum Dots; Project 3 - Ordering in Nematic Liquid Crystals. PREREQ: CH 362/362H & CH 442 (or approval of instructor). CH 461 or CH 324 is recommended. Contact the Chemistry department for registration. **Non-Refundable Course Fee \$44.00. Satisfies: UHC Elective**

**CHE 331H Transport Phenomena I**

CRN: 19108 Section 001 LEC MWF 1100 - 1150 1 UHC Credit(s)  
AND  
CRN: 19109 Section 010 REC TR 1200 – 1250

Instructor(s): Goran Jovanovic

Fundamentals and application of momentum and energy transfer phenomena to fluid flow for the design of industrial chemical engineering equipment. Lecture Sec. 001 is common with non-honors. Recitation is reserved for UHC students enrolled in the lecture section of CHE 331H. Lecture and recitation total 4 OSU credits. PREREQ: MTH 256/256H and CBEE 212. CBEE 212 can be taken concurrently. Must be in Pro-School. **Satisfies: UHC Elective**

**ENG 205H Survey of British Literature: Restoration to the Romantic Era**

CRN: 20210 Section 001 LEC TR 1200 - 1350 4 UHC Credit(s)

Instructor(s): Evan Gottlieb

This course surveys British literature from the Restoration (1660) through the Romantic Era (1830). Starting with excerpts from Milton's *Paradise Lost*, we will chart the development of poetry from epic and satirical to lyrical and personal, as well as the rise of the realistic novel via Tobias Smollett and Jane Austen. Themes will include nationalism, gender relations, and changing attitudes toward the environment. **Satisfies: Bacc Core - Literature & Arts OR Western Culture**

**ENG 213H Literature of the World: Middle East**

CRN: 17578 Section 001 LEC TR 1600 - 1750 4 UHC Credit(s)

Instructor(s): Gilad Elbom

This class will focus on modern Middle Eastern literature from multiple perspectives: cultural, political, religious, historical, geographical, linguistic, structural, stylistic, and other points of view. The books on our reading list include a controversial Sudanese novel that navigates between East and West, the present and the past, the personal and the political; a famous work of Egyptian feminism; a surrealist, hallucinatory, self-deceptive novel from Iran; and two landmarks of Palestinian fiction: one originally written in Arabic, the author's native tongue, the other in Hebrew, the language of the dominant culture that classifies the author as the enemy. We will also watch some movies from the Middle East, mostly from Egypt and Israel. We will compare visual and written texts, make connections between our novels and Middle Eastern cinema, and expand our analysis of narrative structures and thematic concerns. This class will be based on active participation in ongoing discussions about the material. Consistent attendance, a very close reading of the texts, and a high level of involvement in our conversations will be crucial. Be prepared for occasional quizzes. Both the midterm and final exams will be based on our class discussions. The ability to raise questions and propose new directions to explore and discuss will be encouraged, appreciated, and rewarded. **Satisfies: Bacc Core - Cultural Diversity OR Literature and the Arts**

**ENGR 211H Statics**

CRN: 16937 Section 001 LEC MW 1300 - 1350 3 UHC Credit(s)

AND

CRN: 18901 Section 010 REC F 0800 - 0950

Instructor(s): Ben Mason

Analysis of forces induced in structures and machines by various types of loading. PREREQS: MTH 252/252H. Sophomore Standing in Engineering. **Satisfies: UHC Elective**

**ENGR 407H Experiencing Engineering Research**

CRN: 17769 Section 001 SEM F 1000 - 1150 2 UHC Credit(s)

Instructor(s): Belinda Batten

The College of Engineering seeks to encourage faculty/student collaboration in research and to engage students in the study of issues related to engineering. ENGR 407H supports College of Engineering Honors College students by providing exposure to research faculty and to research projects in the College of Engineering. Therefore, students should view this course as an opportunity to form relationships with research faculty and to develop research ideas for their Honors College thesis. ENGR 407H will be operated in a seminar format. College of Engineering researchers will present their research and encourage discussion with students. The primary learning outcomes of this course relate to the demonstration of knowledge about engineering research. Specifically, students will be able to identify current issues relevant to engineering research topics, describe a variety of research methodologies in engineering that are appropriate to a particular topic, and be able to design a research study in engineering. **Graded: P/N Satisfies: UHC Colloquia**

**ES 353H Environmental Racism**

CRN: 20211 Section 001 LEC TR 1000 - 1150 4 UHC Credit(s)

Instructor(s): Natchee Barnd

Introduces environmental racism: the unequal impact of environmental harm on communities of color and indigenous peoples. Presents empirical evidence and theoretical frames, and explores efforts by government, residents, and activists to combat it. Considers questions of environmental justice via social structure, public access, open space, indigeneity, food, and media. **Satisfies: Bacc Core - Difference, Power, and Discrimination**

**FIN 340H Finance**

CRN: 16050 Section 001 LEC MW 0800 - 0950 4 UHC Credit(s)

Instructor(s): John Becker Blease

Role and functions of a financial manager in the modern business environment in which a manager operates; formulation of financial objectives and policies; financial analysis, forecasting, planning, and control; asset management; capital budgeting; acquisition of funds through borrowing, stock issue, and by internal means; dividend policy; and international aspects of finance. PREREQS: ((BA 213 or BA 215/215H) and (ECON 201/201H)) and junior standing. Junior standing waived for Honors students. **Satisfies: UHC Elective**

**H 364H Drugs, Society and Human Behavior**

CRN: 16863 Section 001 LEC TR 1200 - 1320 3 UHC Credit(s)

Instructor(s): Ray Tricker

This course provides students with opportunities to examine the complexities surrounding the use and abuse of drugs in the United States today. Course content will include discussion of the health and social effects of the use and misuse of alcohol, tobacco, stimulant and depressant drugs, medications, hallucinogens, marijuana and other illegal drugs; and the public health aspects of using/abusing these drugs. Through the selection of an applied assignment, students will be able to explore the phenomenon of addictive behavior, in addition to formulating a personal philosophy related to drug use. The challenges inherent in trying to prevent substance abuse will be addressed, with particular regard to the multi-tiered influences on decisions to abuse drugs e.g. the physical and psychological environment, socio-economic status, poverty, minority status and lack of opportunity, and national policy to name a few. PREREQS: PSY 201 or 202. Prereqs are waived for Honors students. If needed, see UHC advisor for override. **Satisfies: UHC Elective**

**HC 199 Honors Writing**

CRN: 11532 Section 001 LEC MWF 900 - 950 3 UHC Credit(s)

OR

CRN: 11533 Section 002 LEC TR 800 - 920

OR

CRN: 15817 Section 003 LEC TR 1000 - 1120

Instructor(s): Eric Hill

Becoming a critical reader and thinker promotes clear writing and verbal communication. You will hone your skills in a discussion/debate format, along with frequent in-class writing assignments and presentations. You will also further develop your abilities to be a critical reader. We will be examining texts from many disciplines and on a variety of topics; you will also bring in examples for discussion. The research paper, which includes both formal documents and informal writing, will focus on an ethical/controversial issue or current research within your discipline; this will include field and library research. **Satisfies: Bacc Core - Writing II**

**HC 299 Building Homes and Hope: International Service Learning**

CRN: 17579 Section 001 SEM W 1500 - 1550 1 UHC Credit(s)

Instructor(s): David Kovac

This course series is designed to engage students in exploring the impact, perspectives, challenges, and complexities of international non-profit and service work, paying particular attention to the affects of sub-standard housing in the destination country/community of our Summer Service Trip & Field Study tentatively scheduled for the first few weeks of summer term. The fall course focuses on the cultural context and perspective of international service work; the winter course examines the impact of service work on individual, group, community, and societal structures; and the spring course highlights group development and team building for international project success. The course series is open to any student interested in learning about international service work. **Satisfies: UHC Colloquia**

**HC 299 Farside Entomology**

2 UHC Credit(s)

CRN: 17053 Section 002 SEM W 1800 – 1950

OR

CRN: 19449 Section 006 SEM M 1800 - 1950

Instructor(s): Michael Burgett

Farside Entomology is designed to introduce you to the humanistic side of entomology by utilizing the entomological humor of Gary Larson, et alia as paradigms of human-insect interactions. Interactions between humans and insects are numerous, of variable time scales and of varying implications (for both the human and the insect), ranging from the mildly humorous to the deadly serious. The "cartoon" format normally provides an anthropomorphic view of insects. This can be an incredibly rich venue as an introduction to the more serious aspects of insects and their relevance to human activities. **Satisfies: UHC Colloquia**

**HC 299 Oregon Outback Tour**

CRN: 15260 Section 003 SEM **Sept. 21-23, 2015** 2 UHC Credit(s)

**FIELD TRIP AND COURSE OCCURS PRIOR TO THE START OF THE TERM (SEPT 21-23).**

Instructor(s): John Buckhouse

The 2015 Oregon Outback Tour will visit several remote and seldom seen places in the Ochoco National Forest of east central Oregon. This is an area which is rich in both ancient geologic history and modern ecological and settlement history. It is a land of interesting geology; landslides, canyons, sage-covered hills; and vegetation transitions between sagebrush steppe and ponderosa pine forests. We will study desert and semi-arid wildland ecology, geologic formations, soils, vegetation, and cultural circumstances. We will be hiking and camping in rough and remote areas (no backpacking). Cell phone coverage will be spotty to non-existent. Meals will be prepared on-site and will consist of hearty, healthy, camp-style fare. Persons with dietary constraints are advised to contact Dr. Buckhouse (john.c.buckhouse@oregonstate.edu). **We will be leaving Corvallis at noon on Sept. 21 and return mid- afternoon on Wed Sept 23.** (Classes begin at OSU on 9/24). Individuals need to provide his/her own sleeping bag, a small tent, clothing, footwear, hats, coats, gloves and personal items. **First year, first term freshman are not eligible to take this course.** **Non-Refundable Course Fee \$71.00 Graded: P/N Satisfies: UHC Colloquia**

**HC 299      The History Games**

CRN: 20213    Section 007    LEC                      F 1400 - 1550                                      2 UHC Credit(s)

Instructor(s): Marisa Chappell &amp; Amy Koehlinger

Greenwich Village 1913: Suffrage, Labor, and the New Woman takes students to the beginning of the modern era when urbanization, industrialization, and massive waves of immigration were transforming the U.S. way of life. As the game begins, suffragists are taking to the streets demanding a constitutional amendment for the vote. What, they ask, is women's place in society? Are they to remain in the home or take an active role in the government of their communities and their nation? Labor has turned to the strike to demand living wages and better conditions; some are even proposing an industrial democracy where workers take charge of industries. Can corporate capitalism allow an economically just society or must it be overturned? African-Americans, suffering from the worst working conditions, disenfranchisement, and social segregation, debate how to support their community through education and protest, thereby challenging their continuing marginalization in both the South and the North. Members of all these groups converge in Greenwich Village to debate their views with the artists and bohemians who are in the process of remaking themselves into the new men and new women of the twentieth century. Their spirited conversations not only show a deep understanding of nineteenth-century thinkers like Elizabeth Cady Stanton and Karl Marx; they are also informed by such contemporaries as Charlotte Perkins Gilman, Jane Addams, W.E.B. Du Bois, Emma Goldman, John Dewey, Franz Boas, and Sigmund Freud. The game asks what social changes are most important as well as how one can or should realize these goals. **Graded: P/N Satisfies: UHC Colloquia**

**HC 407      Race and Science**

CRN: 18902    Section 001    SEM                      R 1000 - 1150                                      2 UHC Credit(s)

Instructor(s): Thomas Bahde

Until the mid-20th century, many Americans believed that scientific determinations of race difference justified discrimination and racism, and we still live with repercussions of this assumption today. It has only been within the last half-century that mainstream scientific thought has dismissed the notion of fundamental race difference as a "natural" means of social organization and control. This course considers the role of modern science and pseudoscience in producing and reproducing ideologies of race and racism from the early 19th century through the present. We will be looking especially at the intersection of popular cultures of racism and the dissemination of racial science and pseudoscience. We will investigate how ideas about race difference have corresponded to the waxing and waning of scientific justifications for institutional racism and white supremacy. **Graded: P/N Satisfies: UHC Colloquia**

**HC 407      Leadership and Positive Psychology**

CRN: 17580    Section 003    SEM                      W 1000 - 1150                                      2 UHC Credit(s)

Instructor(s): Don Johnson

This seminar will examine the relationships between leadership and positive psychology using Seligman's PERMA theory as a contextual base for examining "action orientated leadership" and "visionary orientated leadership." Students will compare and contrast the differences between the two forms of leadership. Students will learn about the foundations of Seligman's PERMA Theory on Positive Psychology/Well Being, and how this theory can serve as a baseline for leading groups through visionary leadership design. **Graded: P/N Satisfies: UHC Colloquia**



**HC 407 Translations**

CRN: 17770 Section 010 SEM TR 1300 - 1350 2 UHC Credit(s)

Instructor(s): Eric Hill

This course will examine the various processes of translation, literally and figuratively. We perform acts of translation whenever we read, write, listen, or speak. Translation is not just restricted to deciphering a foreign language; it also applies to understanding jargon, colloquialisms, slang, euphemism, idiomatic expressions, gestures, and images. Students will look at how we use and think about (or sometimes how we don't think about) language. We will begin with some fundamental concepts that will include etymology, grammar, and some historical background of the evolution and commonality of languages.

Since we will be looking at the concept of translation in this broad sense, students need not necessarily speak a language other than English to take this class. In fact, we will also be discussing the various Englishes we all speak. Students will be asked to critically examine examples of translation. They will write about and present examples of how language works in a variety of contexts **Graded: P/N Satisfies: UHC Colloquia**

**HC 407 Robots and Romance: Science Fiction and the Erotic Imagination**

CRN: 18994 Section 014 SEM M 1600 - 1850 2 UHC Credit(s)

**Meets 10/5 – 11/17**

Instructor(s): Gilad Elbom

Our goal in this seminar will be to examine notions of carnal love in science-fiction cinema, paying attention representations of passion, desire, sex, sensuality, emotion, reproduction, androids, androgyny, and other related topics. How do futuristic movies envision close encounters of the intimate kind? Is there room for courtship, romance, rejection, heartbreak, and other arguably outmoded concepts in a future world marked by cold precision, mathematical formulas, and technological perfection? Is there room for impure thoughts, unmade beds, and the inherently confusing nature of physical contact in excessively clean, calculated, controlled environments? We will try to develop our ideas through questions about genre, design, narrative formulas, exploration, experimentation, gender relations, human-computer interaction, intercultural encounters, utopia and dystopia, and other themes. We will also read some essays on the topic—to be posted on Blackboard—and address our movies from multiple perspectives and approaches: social, political, historical, psychological, technological, theological, and so on. This course runs from 10/5-11/16. Its first session meets on 10/5/15 and its last session meets on 11/16/15. **Graded P/N Satisfies: UHC Colloquia**

**HC 407 Bioresource Sciences**

CRN: 20400 Section 015 SEM TR 1600 - 1650 2 UHC Credit(s)

Instructor(s): Zhenglun Li &amp; Kate Field

Lectures will cover a broad range of topics related to fuels and chemicals produced from bioresources. The course aims to serve the students as an in-depth colloquium on multiple scientific disciplines, and to equip the students with a variety of field knowledge that is related to their future studies. This course also offers opportunities of experiential learning through field trips to regional bioenergy companies and tours to on-campus research labs.

**Satisfies: UHC Colloquia**



### HC 408 Workshop THESIS: LEARN

CRN: 15533    Section 002    WS    R 1700 - 1850    1 UHC Credit(s)  
**Meets 10/8, 10/22, & 11/19 Only**

Instructor(s): LeeAnn Baker, Indira Rajagopal, and David Hurwitz

This course will guide students through the second stage of the Thesis Success in Stages (TheSIS) process: LEARN. In this course students will lay the groundwork for a successful thesis experience. We will focus on the value of the thesis, what it takes to successfully complete a thesis (e.g. identify a mentor, identify a topic, level of effort required), and we'll hear from students and faculty with experience in the thesis process. Thesis: LEARN will assist you in completing four tasks: 1) analyzing a completed thesis, 2) meeting with faculty to learn about research opportunities, 3) interviewing faculty as potential mentors, and 4) completing online research ethics training. This course meets three times throughout the term and is team taught. Prereqs: Prior completion of TheSIS stage: START. Meets 10/8, 10/22, & 11/19 Only. **Graded: P/N Satisfies: UHC Thesis/Research/ Projects**

### HC 408 Workshop THESIS: UNDERTAKE

CRN: 17584    Section 001    WS    R 1700 - 1850    1 UHC Credit(s)  
**Meets 10/15 & 11/12 Only**

Instructor(s): Michael Burgett

This course will guide students through the third stage of the Thesis Success in Stages (TheSIS) process, UNDERTAKE. During this course students will select a thesis mentor, create a thesis statement, write a thesis proposal, and begin to develop a research plan. The course will require participants to turn in a completed Thesis Proposal, Agreement & Timeline, signed by a thesis mentor, by the end of the term. This course meets twice throughout the term and is team taught. To take this course you must have completed all previous TheSIS stages. For full details please see: [honors.oregonstate.edu/thesis](http://honors.oregonstate.edu/thesis). Meets 10/15 & 11/12 Only. **Graded: P/N Satisfies: UHC Thesis/Research/ Projects**

### HC 408 Workshop THESIS: GRADUATE

CRN: 20212    Section 003    WS    F 1400 - 1550    1 UHC Credit(s)  
**Meets 10/2, 10/16, & 10/30 Only**

Instructor(s): Tara Williams

This course will guide students through the final stage of the Thesis Success in Stages (TheSIS) process. The goals of Thesis: GRADUATE are the completion of a thesis draft, the preparation for the thesis defense and the design of a thesis poster. Students need to have completed their research and be prepared to begin writing the thesis draft. This course meets three times throughout the term. To take this course you must have completed all previous TheSIS stages. For full details please see: [honors.oregonstate.edu/thesis](http://honors.oregonstate.edu/thesis). Meets 10/2, 10/16, & 10/30 Only. **Graded: P/N Satisfies: UHC Thesis/Research/ Projects**

**HC 409 PRAC/Civic Engagement**

CRN: 17828 Section 005 PRAC TBD 1 UHC Credit(s)

Instructor(s): Leanna Dillon

The Center for Civic Engagement provides an opportunity for honors students to earn credit while participating in an ongoing community engagement project within the local community and exploring a community need or issue area of interest. Participating honors students commit to serving on average 2-3 hours per week within their project site, keeping track of their service hours, and completing a 2 page reflection paper on their experience and views on social responsibility due at the end of the term. Suggested readings will be provided. Students must meet with a UHC advisor to complete a Learning Agreement as well as a CCE staff member. Please reflect on your interest areas and review the list of community placement opportunities at: <http://oregonstate.edu/cce/ongoing> before meeting with the CCE.

Placement must take place no later than the end of finals week the term prior to enrollment. **Graded: P/N Satisfies: UHC Elective**

**HC 409 PRAC/Conversants**

CRN: 11838 Section 007 PRAC TBD 1 UHC Credit(s)

Instructor(s): Leanna Dillon

The INTO OSU Cultural Ambassador Conversant Program provides an opportunity for honors students to earn credit while participating in a mutual cultural exchange. Participating honors students commit to meeting on average one hour per week with their international partner, keeping a log of the times and places they met and the topics discussed, and completing a 2 page reflection paper due at the end of the term. Program information, including the application process is available at <http://oregonstate.edu/international/cultural-ambassador>. Students must meet with a UHC advisor to complete a Learning Agreement. Applications must be submitted online no later than the end of week 1. **Graded: P/N Satisfies: Elective**

**HST 210H Religion in the United States**

CRN: 17585 Section 001 LEC TR 1000 - 1150 4 UHC Credit(s)

Instructor(s): Amy Koehlinger

A thematic overview of the historical study of religion in the United States, with an eye toward ways that social and cultural contexts have shaped the religious experience of Americans in different places and times. Surveys a wide array of religious movements, groups, and individuals from the colonial period to present. Crosslisted with PHL 210H & REL 210H. **Satisfies: Bacc Core - Difference, Power, and Discrimination**

**HST 299H The History Games**

CRN: 21431 Section 001 LEC F 1400 - 1550 2 UHC Credit(s)

Instructor(s): Marisa Chappell &amp; Amy Koehlinger

Crosslisted with HC 299. See HC 299 course description. **Graded: P/N Satisfies: UHC Colloquia**

**ME 332H Heat Transfer**

CRN: 20356	Section 001	LEC	MW 800 - 950	4 UHC Credit(s)
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Instructor(s): Deborah Pence

A treatment of conductive, convective and radiative energy transfer using control volume and differential analysis and prediction of transport properties. PREREQ: ((MTH 256/256H & ENGR 212/212H) AND (ME 311/311H or NE 311/311H) AND (ME 331/331H OR NE 331/331H)). Must be enrolled in Pro-School. Major/Minor Restrictions: Mechanical Engineering, Industrial Engineering, or Nuclear Engineering. **Satisfies: UHC Elective**

**ME 382H Introduction to Design**

CRN: 16866	Section 001	LEC	MWF 1200 - 1250	
	AND			
CRN: 16867	Section 010	LAB	F 1000 - 1150	1 UHC Credit(s)

Instructor(s): Bob Paasch

Organization, planning, economics, and the use of creativity and optimization in solving mechanical design problems. Case studies and/or industrial design problems. This Honors section will include short seminars and discussions on contemporary research on topics in design methodology and marine renewable energy. Lecture common with non-honors. Lecture and lab total 4 OSU credits. PREREQ: ENGR 248 and COREQ: ME 250. Must be enrolled in Pro-School. Major/Minor Restrictions: Manufacturing Engineering, Mechanical Engineering, Industrial Engineering, Nuclear Engineering. **Satisfies: UHC Elective**

**ME 430H Systems Dynamics and Controls**

CRN: 17775	Section 001	LEC	MW 1200 - 1350	4 UHC Credit(s)
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Instructor(s): Geoffrey Hollinger

Modeling and analysis of linear continuous systems in time and frequency domains. Fundamentals of single-input-single output control system design. PREREQS: (ME 317/317H or (ECE 351 and ECE 352)) AND ENGR 212/212H. Major/Minor RESTRICTIONS: Electrical and Computer Engineering, Mechanical Engineering, Nuclear Engineering, Electrical and Electronics Engineering. Must be enrolled in Pro-School. **Satisfies: UHC Elective**

**MTH 251H Differential Calculus**

CRN: 13069	Section 001	LEC	MWF 800 - 920	4 UHC Credit(s)
	OR			Mary Beisiegel
CRN: 19452	Section 002	LEC	MWF 1000 - 1120	Thomas Dick

Instructor(s): Mary Beisiegel & Thomas Dick

This is the first term of the calculus sequence for scientists, engineers, and others, including mathematics majors. The first two terms of the sequence, MTH 251 and MTH 252, focus on real-valued functions of a single real variable, including polynomial, rational, algebraic, trigonometric, exponential, and logarithmic functions. Differential calculus involves the study of rate of change in all its forms, including velocity, acceleration, population growth and other natural and physical phenomena. Differential calculus features the derivative, techniques of differentiation, and applications of the derivative, including optimization problems, the geometry of curves, and analysis of motion. This course emphasizes geometric reasoning not just computation. PREREQ: MTH 112. Sufficient test scores may waive MTH 112 prereq. **Course Fee \$10.00 Satisfies: Bacc Core - Mathematics**

**MTH 252H      Integral Calculus**

CRN: 18908      Section 002      LEC                      MWF 1000 - 1120                                      4 UHC Credit(s)

Instructor(s): Robert Higdon

Definite integrals, elementary applications to area, force, and work. Integral tables and basic techniques of integration, calculus of logarithmic and exponential functions, polar coordinates, applications to areas, volumes, force, work, and growth and decay problems. PREREQ: MTH 251/251H. **Course Fee \$10.00 Satisfies: UHC Elective**

**MTH 254H      Vector Calculus I**

CRN: 13070      Section 001      LEC                      MWF 1400 - 1520                                      4 UHC Credit(s)

OR

CRN: 15829      Section 002      LEC                      MF 900-950 &amp; W 800-950                                      Tevian Dray

Instructor(s): Juan Restrepo &amp; Tevian Dray

Vectors and geometry: coordinate systems, scalar product. Real-Valued Functions of Several Variables: partial and directional derivatives, gradient, extreme values. Multiple Integrals: change of coordinates, applications. Vector valued-functions: arc length and curvature of space curves, normal and tangential components of acceleration. PREREQ: MTH 252/252H **Course Fee \$10.00 Satisfies: UHC Elective**

**MUS 102H      Music Appreciation II: Periods and Genres - Reggae: A History of Jamaican Music**

CRN: 16051      Section 001      LEC                      TR 1000 - 1120                                      3 UHC Credit(s)

Instructor(s): Ryan Biesack

This survey traces the roots of Jamaican music, which has become known as Reggae, from just prior to Jamaica's Independence from Great Britain in 1962 starting with the American R & B influenced Ska, through Rock Steady, Dub, Roots Rock, Reggae, DJs, Toasting, and through the early turn of the millennium. We will look at key musicians, producers and performers, as well as examine key social and political events that helped shape this great music. When possible, guest speakers, video clips, audio clips and other media will be used to tell the story of this rapidly changing, wide reaching music. Also, an optional field trip to a reggae concert will enhance the study of this music, and give the students an accurate modern day perspective and idea of reggae today. **Satisfies: Bacc Core - Literature and the Arts**

**NE 332H      Heat Transfer**

CRN: 20549      Section 001      LEC                      MW 800 - 950                                      4 UHC Credit(s)

Instructor(s): Deborah Pence

A treatment of conductive, convective and radiative energy transfer using control volume and differential analysis and prediction of transport properties. PREREQ: ((MTH 256/256H & ENGR 212/212H) AND (ME 311/311H or NE 311/311H) AND (ME 331/331H OR NE 331/331H). Must be enrolled in Pro-School. Major/Minor Restrictions: Mechanical Engineering, Industrial Engineering, or Nuclear Engineering. **Satisfies: UHC Elective**



**PH 407H      Wart Hogs and Boa Constrictors: Topics in Science and Religion**

CRN: 15534      Section 001      SEM      TR 1400 - 1450      2 UHC Credit(s)

Instructor(s): Albert Stetz

The course studies various ways that modern science has an impact on religion. We will look at some conflict issues such as Biblical creationism and the "new atheism," then review some more positive developments such as anthropic arguments regarding the fine tuning of the universe and the appearance of direction and purpose in evolution. Modern science, particularly physics, cosmology, and biology have been used both as arguments for and refutations of western religion. For example, most of the recent winners of the 1.5 million dollar Templeton Award (given for, "exceptional contribution to affirming life's spiritual dimension") have been well-known physicists. On the other hand, the recent bestsellers, Richard Dawkins's *The God Delusion*, Sam Harris's *The End of Faith*, and Christopher Hitchens's *God Is Not Great*, claim that modern evolutionary theory and genetics definitely refute the claims of religion in general and Christianity in particular. Since all these competing claims are based on good science they should be amenable to rational discussion. We can ask, for example, if modern cosmology can justify the belief in creation ex nihilo, whether quantum indeterminacy leaves room for free will, whether physical laws are consistent with the notion of divine intervention, and whether the intelligent design hypothesis makes sense in the light of modern genetics. These questions should be approached with an accurate understanding of the science involved and discussed in an atmosphere of mutual respect and tolerance. The course is divided roughly into three sections. The first third will deal with the history of the interaction of science and religion. As it turns out this begins with Aristotle and runs up to recent controversies about evolution. The second third will deal with two current conflict issues, the intelligent design hypothesis and the "new atheist" movement. Finally, we will look at various ways that modern science, particularly physics, might have a positive impact on traditional Christianity. **Satisfies: UHC Colloquia**

**PHL 210H      Religion in the United States**

CRN: 17586      Section 001      LEC      TR 1000 - 1150      4 UHC Credit(s)

Instructor(s): Amy Koehlinger

Crosslisted with HST 210H & REL 210H. See HST 210H course description. **Satisfies: Bacc Core - Difference, Power, and Discrimination**

**PHL 443H      World Views and Environmental Values**

CRN: 20214      Section 001      LEC      TR 1200 - 1320      3 UHC Credit(s)

Instructor(s): Rob Figueroa

Human societies are characterized by a specific relation to nature. The way in which this relation is understood and implemented in narrative, policies, norms, and habits, reveals the way in which a society understands itself, how it is constituted and on which basic shared values it rests. In this class we will explore and compare different models of the relation to nature and discuss the different forms of environmentalism that stem from them. We will examine leading ideas such as 'Sustainable Development,' the 'Green Economy,' and the debate revolving around the 'economic valuation of ecosystem services' and the Millennium Ecosystem Assessment. We will also engage with the model of an 'Ecological Civilization' that has turned into a main political goal in China, encounter the vision of Radical Ecological Democracy developed by Indian environmental activists, and dedicate some time to study the concept of 'Buen Vivir' (Living Well) that indigenous people from Latin America have proposed as an alternative to the Western model of development. In this class we will meet with different forms of texts: scholarly works in the fields of philosophy, ecology, and political theory; activists' and political documents; policy advice, narrative, and hypertexts. Basic reading material will be provided by the instructor at the beginning of class. Students are encouraged and expected to actively research additional material and to present it in class during the poster presentation sessions. Consistent attendance, a close reading of all the basic texts, and an active participation during class discussion are necessary requirements. **Satisfies: Bacc Core - Contemporary Global Issues**

**PHL 444H      Biomedical Ethics**

CRN: 16868      Section 001      LEC                      MW 1000 - 1150                                      4 UHC Credit(s)

Instructor(s): Courtney Campbell

Application of ethical principles and decision-making processes to selected problems in medicine, health care, and biotechnology. Special attention given to end-of-life choices, reproductive rights and technologies, organ transplantation, research ethics, genetic engineering, and allocating scarce resources. An interdisciplinary focus that draws on social, legal, economic, and scientific issues in ethical decision in medicine. **Satisfies: Bacc Core - Science, Technology and Society**

**REL 210H      Religion in the United States**

CRN: 20575      Section 001      LEC                      TR 1000 - 1150                                      4 UHC Credit(s)

Instructor(s): Amy Koehlinger

Crosslisted with HST 210H & PHL 210H. See HST 210H course description. - **Satisfies: Bacc Core - Difference, Power, and Discrimination**

**WGSS 223H      Women: Self and Society**

CRN: 20216      Section 001      LEC                      TR 1200 - 1320                                      3 UHC Credit(s)

Instructor(s): Kryn Freehling-Burton

Multidisciplinary introduction to women, gender, and sexuality studies. Focuses on the lives and status of women in society and explores ways institutions such as family, work, media, law and religion affect different groups of women. Explores issues of gender, race, class, age, sexual orientation, size and ability. **Satisfies: Bacc Core – Difference, Power, and Discrimination or Social Processes and Institutions**

**WGSS 235H      Women in World Cinema**

CRN: 20217      Section 001      LEC                      M 1600 - 1850                                      3 UHC Credit(s)

Instructor(s): Mehra Shirazi

In this discussion-oriented interdisciplinary course, we will examine representations of women and gender through screening films from various genres within a global context. In particular, we will explore films produced by women and/or about women's lives and experiences in order to analyze constructions and practices of gender in a transnational, multireligious, global framework. By examining the context of various films created within particular historical and cultural contexts, we will develop and expand our understanding of the cultural productions, meanings, and intersections of race, gender, culture, class, sexual identity, and nation. **Satisfies: Bacc Core - Cultural Diversity**