

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

CRN: 23096 Section 001 LEC R 1700 - 1850 2 HC Credit(s)

Instructor(s): LeeAnn Baker

In this course you will be challenged to ENGAGE, EXPLORE, 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 HC 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. **Graded: P/N. Satisfies: HC Elective/Thesis**

**ANS 121H Introduction to Animal Sciences**

CRN: 27356 Section 001 LEC TR 800 - 920 4 HC Credit(s)

**AND**

CRN: 27357 Section 010 LAB T 1200 - 1350

Instructor(s): Matthew Kennedy & Dawn Sherwood

At the completion of this course, students should have a basic understanding of livestock production. Students will be exposed to production methods and issues related to the Beef, Dairy, Equine (horse), Poultry, Sheep, and Swine industries in the US. Issues will relate to, sustainability, economics, and product quality. An overview of major scientific disciplines that relate to livestock and poultry production including, Nutrition, Genetics, Reproduction, and Animal Welfare will be presented. **Course Fee \$55. Satisfies: HC Bacc Core - Biological Sciences**

**ANTH 313H Peoples of the World - Latin America**

CRN: 26971 Section 001 LEC MWF 1300 - 1350 3 HC Credit(s)

Instructor(s): Shaozeng Zhang

Survey of peoples around the world. Early settlement, cultural history, ecological adaptations, population, family and gender roles, religious ideology, political and economic systems, modern social changes, and contemporary issues pertaining to indigenous peoples in culturally distinct regions of the world. Emphasis is placed on dispelling stereotypic images, both past and present. Recommended Prereqs: ANTH 110 or ANTH 210 or completion of social processes and institutions requirement. **Satisfies: HC Bacc Core - Cultural Diversity**

**BA 160H B-Engaged 2 HC Credit(s)**

CRN: 25817 Section 019 REC F 900 – 950 & GRP MID Sandra Neubaum

**AND CHOOSE ONE LECTURE**

CRN: 25818 Section 010 LEC MW 1200 - 1250 Staff TBA

CRN: 25820 Section 012 LEC TR 1300 - 1350 Staff TBA

CRN: 27030 Section 014 LEC TR 1200 - 1250 Staff TBA

Understand and accomplish college-level academic work and explore OSU resources and options that will enhance your college experience and success. Opportunity to connect with faculty and peers with common interests in a supportive learning environment. Recitation is common with non-honors. Recitation in this case is the main large meeting and the lectures are the small breakouts. 2 out of the 3 OSU credits earned count towards Honors College requirements. **RESTRICTIONS: For pre-business students only. Satisfies: HC Elective**

**BA 211H Financial Accounting**

CRN: 26752 Section 001 LEC TR 1000 - 1150 4 HC Credit(s)

Instructor(s): Roger Graham JR

Accounting information from the perspective of external users, principally investors and creditors. Emphasis on the preparation and interpretation of financial statements, income recognition and determination, and asset valuation. PREREQS: (MTH 111 OR MTH 241 OR MTH 251/251H) OR Placement Test MPT(24) OR Placement Test MPAL(060). RESTRICTIONS: Business majors/minors only. Sophomore standing required. **Satisfies: HC Elective**

**BA 375H Applied Quantitative Methods**

CRN: 26758 Section 001 LEC TR 1800 - 1950 4 HC Credit(s)

Instructor(s): Staff TBA

Introduces students to the basics of data science and data analytics for handling of large-scale databases. It provides an overview of the main data-analytic techniques and topics including data visualization, linear and nonlinear regression analysis, time series analysis and forecasting, classification, and clustering methods. PREREQS: BA 275 [C-] and /or equivalent. RESTRICTIONS: Business majors/minors only. Junior standing required. **Satisfies: HC Elective**

**BB 314H Cell and Molecular Biology**

CRN: 24550 Section 001 LEC TR 1400 - 1520

**AND**

CRN: 24551 Section 010 REC R 1000 - 1050 1 HC Credit(s)

Instructor(s): Indira Rajagopal

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. Recent discoveries in Cell and Molecular biology will be emphasized. Lecture common with non-Honors. Recitation is reserved for HC students. 1 out of the 4 OSU credits earned counts toward Honors College requirements. PREREQS: (BI 211/211H) AND (BI 212/212H) AND (BI 213/213H) AND (CH 331 OR CH 334). CH 331 or CH 334 may be taken simultaneously to this course. **Satisfies: HC Elective**

**BB 405H Reading and Conference for BB 314H**

CRN: 26228 Section 001 RES 1 HC Credit(s)

Instructor(s): Indira Rajagopal

This is an optional, 1-credit Reading and Conference course that can be taken with BB 314H. COREQ: BB 314H. **Satisfies: HC Elective**

**BI 211H**                      **Principles of Biology**

CRN: 22954	Section 001	LEC	MWF 1300 – 1350 & GRP MID	4 HC Credit(s) Nathan Kirk
------------	-------------	-----	------------------------------	-------------------------------

**AND CHOOSE ONE LAB**

CRN: 20259	Section 010	LAB	M 1400 - 1650	Adam Chouinard
CRN: 21106	Section 011	LAB	R 800 - 1050	Nathan Kirk

Instructor(s): Nathan Kirk &amp; Adam Chouinard

Origins of life, energy transformations, plant and animal diversity. PREREQS: General Chemistry (may be taken concurrently). RESTRICTIONS: This course is for life science majors and pre-professional students. **Course Fee \$29.**  
**Satisfies: HC Bacc Core - Biological Sciences**

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

CRN: 21632	Section 001	LEC	M 1800 - 1850	2 HC Credit(s)
------------	-------------	-----	---------------	----------------

**AND**

CRN: 21633	Section 010	REC	F 1500 - 1650
------------	-------------	-----	---------------

**AND**

CRN: 21634	Section 012	LAB	W 1500 - 1650
------------	-------------	-----	---------------

Instructor(s): Skip Rochefort

Introduction to the Chemical, Biological, and Environmental Engineering profession 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 HC students. 2 of the 3 OSU credits earned count toward Honors College requirements. **Satisfies: HC Elective**

**CBEE 211H**                      **Material Balances and Stoichiometry**

CRN: 23670	Section 001	LEC	MF 1200 - 1250
------------	-------------	-----	----------------

**AND**

CRN: 23671	Section 010	REC	W 1200 - 1250
------------	-------------	-----	---------------

**AND**

CRN: 23672	Section 011	STD	W 1400 - 1450	1 HC Credit(s)
------------	-------------	-----	---------------	----------------

Instructor(s): Phil Harding

Material balances, thermophysical, and thermochemical calculations. Lecture and recitation common with non-honors. Studio is reserved for honors students only. Students must enroll in CBEE 211H lecture, recitation, and studio. 1 of the 3 OSU credits earned counts toward Honors College requirements. PREREQS: MTH 252/252H and general chemistry and second-year standing in engineering. **Satisfies: HC Elective**

**CCE 321H Civil and Construction Engineering Materials**

CRN: 26780 Section 001 LEC TR 800 - 920 4 HC Credit(s)

**AND**

CRN: 26781 Section 010 LAB W 1000 - 1150

Instructor(s): Burkan Isgor

Highway materials; aggregate, concrete and asphalt. Standard test methods. PREREQS: (ENGR 213/213H) AND (ST 314 OR BA 276). RESTRICTIONS: Civil Engineering & Construction Engineering Management majors only. **Satisfies: HC Elective**

**CH 231H Honors General Chemistry****CHOOSE LECTURE AND ONE OF THE RECITATIONS**

CRN: 24575 Section 001 LEC MWF 1200 - 1250 4 HC Credit(s)  
Vincent Remcho

**AND**

CRN: 24577 Section 010 REC T 1100 - 1150 Staff TBA

**OR**

CRN: 24578 Section 011 REC R 1400 - 1450 Staff TBA

**AND CHOOSE ONE OF THE LAB SECTIONS OF CH 261H****CH 261H**

CRN: 22390 Section 010 LAB T 1200 - 1450 1 HC Credit(s)  
Michael Burand

**OR**

CRN: 22391 Section 011 LAB R 1500 - 1750 Michael Burand

Instructor(s): Vincent Remcho, Staff TBA, & Michael Burand

This first course in a General Chemistry sequence is 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. \$30 fee for the laboratory section. CH 231H must be taken simultaneously with CH 261H OR CH 271. PREREQS: MTH 111 OR MTH 112 OR MTH 251/251H OR MTH 252/252H OR MTH 254/254H. COREQ: CH 261H OR CH 271 (CH 271 for chemistry majors). **Course Fee \$30. Satisfies: HC Bacc Core - Physical Sciences**

**CH 361H Experimental Chemistry I**

CRN: 19725 Section 001 LEC T 1200 - 1250 3 HC Credit(s)

**AND**

CRN: 19726 Section 011 LAB T 1300 - 1550 &amp; R 1200 - 1550

**OR**

CRN: 19727 Section 002 LEC W 1200 - 1250 3 HC Credit(s)

**AND**

CRN: 19728 Section 021 LAB W 1300 - 1550 &amp; F 1200 - 1550

Instructor(s): Kevin Gable

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, AND CH 223) OR (CH 224H, CH 225H, AND CH 226H) OR (CH 231/231H, CH 232/232H, CH 233/233H AND (CH 261/261H OR CH 271), (CH 262/262H OR 272), AND (CH 263/263H OR 273)) AND (MTH 251/251H AND (PH 201 OR PH 211) AND CH 334). MTH 251/251H, PH 201, PH 211, and CH 334 can be taken concurrently. RESTRICTIONS: Only Chemistry, Biochemistry and Biophysics majors/minors/options may enroll. **Contact the Chemistry department for registration.** **Course Fee \$44 (non-refundable).** **Satisfies: HC Elective**

**CH 461H Experimental Chemistry II**

CRN: 20040 Section 001 LEC T 1200 - 1250 3 HC Credit(s)

**AND**

CRN: 20068 Section 010 LAB T 1300 - 1550 &amp; R 1200 - 1550

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 AND CH 421 AND CH 440. CH 421 and CH 440 can be taken simultaneously to this course. RESTRICTIONS: For chemistry majors/minors only. **Course Fee \$44 (non-refundable).** **Satisfies: HC Elective**

**CH 464H Experimental Chemistry II**

CRN: 19729 Section 001 LEC M 1300 - 1350 3 HC Credit(s)

**AND**

CRN: 20041 Section 011 LAB M 1400 - 1650 &amp; 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. Contact the Chemistry department for registration. PREREQS: CH 362/362H AND CH 442 (or approval of instructor). CH 461 or CH 324 are recommended. RESTRICTIONS: For chemistry majors/minors only. **Course Fee \$44 (non-refundable). Satisfies: HC Elective**

**CHE 331H Transport Phenomena I**

CRN: 23687 Section 001 LEC MWF 1100 - 1150

**AND**

CRN: 23688 Section 010 REC MF 1300 - 1350 1 HC Credit(s)

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 common with non-honors. Recitation is reserved for HC students only. 1 out of the 4 OSU credits earned counts toward Honors College requirements. PREREQ: MTH 256/256H AND CBEE 212/212H. CBEE 212/212H can be taken concurrently. RESTRICTIONS: Must be in Pro-School in the College of Engineering to enroll in this course. **Satisfies: HC Elective**

**CS 160H Computer Science Orientation**

CRN: 25842 Section 001 LEC MW 1200 - 1250 3 HC Credit(s)

**AND**

CRN: 25843 Section 010 LAB F 1200 - 1350

Instructor(s): Jennifer Parham-Mocello

Introduction to the computer science field and profession. Team problem solving. Introduction to writing computer programs. RESTRICTIONS: This course is **not** for Pro School College of Engineering Students. **Satisfies: HC Elective**

**CS 321H Introduction to Theory of Computation**

CRN: 26783 Section 001 LEC MWF 900 - 950 3 HC Credit(s)

Instructor(s): Michael Rosulek

Survey of models of computation including finite automata, formal grammars, and Turing machines. PREREQS: CS 261 AND (CS 225 OR MTH 231). RESTRICTIONS: Must be in Pro-School in the College of Engineering to enroll in this course. Not for Computer Science Double Degree students. **Satisfies: HC Elective**

**ENG 202H Shakespeare**

CRN: 26788 Section 001 LEC TR 1400 - 1550 4 HC Credit(s)

Instructor(s): Tekla Bude

An introduction to the second half of Shakespeare's career. This course is designed to help students become more confident readers and audience members of Shakespearean drama by focusing on language, historical context, and staging. **Satisfies: HC Bacc Core - Literature and the Arts OR Western Culture**

**ENG/PHL/WGSS 295H Feminism and the Bible**

CRN: 27071 Section 001 LEC M 1600 - 1850 3 HC Credit(s)

Instructor(s): Susan Shaw

Examines feminist interpretations of the Bible and pays special attention to intersections of race, social class, sexual identity, and nation in biblical interpretation. Crosslisted with PHL/WGSS 295H. **Satisfies: HC Bacc Core - Literature and the Arts**

**ENGR 211H Statics**

CRN: 22434 Section 001 LEC MW 1300 - 1350 3 HC Credit(s)

**AND**

CRN: 23576 Section 010 REC F 800 - 950

Instructor(s): Michael Scott

Analysis of forces induced in structures and machines by various types of loading. PREREQS: MTH 252/252H. RESTRICTIONS: Sophomore standing in engineering. For Pre-Engineering, Engineering, Pre-Forestry, and Forestry students only. **Satisfies: HC Elective**

**ENGR 407H Experiencing Engineering Research**

CRN: 22920 Section 001 SEM F 1000 - 1150 2 HC Credit(s)

Instructor(s): Eduardo Cotilla-Sanchez

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: HC Colloquia**

**GEO 352H****Oregon: Geology, Place, and Life on the Ring of Fire**

CRN: 27078

Section 001

LEC/LAB

**COURSE TAKES PLACE PRIOR TO THE START OF FALL TERM. 9/8/17 – 9/17/17  
REQUIRED FIELD TRIP.**

4 HC Credit(s)

Instructor(s): Kaplan Yalcin

This is field based, experiential learning course. The course will be taught entirely in the field at locations throughout Oregon as a nine day field trip (field trip dates Sept 9- Sept 17) with pre-trip orientation/introductions in Corvallis on September 8. Field trip locations will include the southern Oregon Coast and Siskiyou Mountains, the Cascades and Crater Lake, the High Lava Plains and Newberry Volcano, the northern Basin and Range and Steens Mountain, the Painted Hills and John Day Fossil Beds, the Elkhorn and Wallowa Mountains, the Columbia Plateau and Tygh Valley, and the Columbia River Gorge. Field trip locations are chosen to highlight sites of state and global geological significance and to illustrate the effects of geological processes in shaping the landscape of Oregon as we see today and the lives of the people that live here. **Required Field Trip that runs prior to the beginning of Fall term, (Sept 9-17, 2017) with a pre-trip meeting on campus September 8, 2017. This course is NOT for first-year students.** PREREQS: Introductory science course recommended. **Course Fee \$41 (non-refundable).** Satisfies: HC Bacc Core - Science, Technology and Society

**HC 199****Honors Writing**

CRN: 18500

Section 001

LEC

MWF 900 - 950

3 HC Credit(s)

**OR**

CRN: 18501

Section 002

LEC

TR 800 - 920

**OR**

CRN: 21682

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: HC Bacc Core - Writing II**

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

CRN: 22811

Section 001

SEM

T 1600 - 1650

1 HC 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 effects of sub-standard housing in the destination country/community of our Summer Service Trip & Field Study. 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: HC Colloquia**



**HC 299**                      **Farside Entomology**

CRN: 22512                      Section 002                      SEM                      M 1800 - 1950                      2 HC Credit(s)

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 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. Last 30 minutes of class will be reserved for group meetings/independent work. At the first meeting, the class will be divided into teams of 2 students per team. On an every-other-week basis, each team will be required to present their entomological and humanistic interpretation of an entomologically-based cartoon. Appropriate reference materials will be attached to each assignment. Every week thereafter, half of the teams will make a 10 to 12 minute oral presentation. This format will allow students to serve as presenters four times during the academic quarter. Weekly out-of-class preparation time is critically important to team success. **Satisfies: HC Colloquia**

**HC 407**                      **Writing About Music**

CRN: 26970                      Section 001                      SEM                      MW 1200 - 1250                      2 HC Credit(s)

Instructor(s): Eric Hill

This class will focus on how we attempt to use words to discuss something that works outside of language. Does music defy description? Is it possible to employ concrete terms for something that, for many, remains abstract and/or subjective? Is writing about music like dancing about architecture? You will be asked to examine and respond to music and texts about music. Through in-class discussions, presentations, and assignments, you will discuss what you see as the values and limitations of these texts, as well as how they compare with your own written attempts to react to music. Much of the material you will be listening to and writing about will come from pieces that you bring in (some of it will be music that I subject you to). You will be writing about music through various forms of expression (description, review, analysis), explaining not only the characteristics of the music but also how context can affect your experience (live versus recorded, instrumental versus lyrics, visual components, etc). You are not required to play an instrument or to know music theory, but we will go over some theoretical terms that may provide you with some basic vocabulary. **Graded: P/N. Satisfies: HC Colloquia**

**HC 407**                      **Toy-Based Technology for Children with Disabilities**

CRN: 25320                      Section 002                      SEM                      T 1400 - 1550                      2 HC Credit(s)

Instructor(s): Sam Logan

This is a 'hands-on' and 'brains-on' course where students will gain skills and knowledge through real-world experience and the reading and discussion of current scientific research related to core course topics. This experience will be driven through engagement with the Go Baby Go (GBG) program. GBG is a community-based outreach program that works with families, clinicians and industry to provide modified ride-on toy cars to children with disabilities to use for fun, function, and exploration. <http://health.oregonstate.edu/gobabygo>. Students will gain the necessary technical skills such as cutting PVC pipe and basic wiring. Students will work directly with families to customize ride-on car modifications to meet the individual needs of children with disabilities. The technical skills and scientific research will be open and accessible to all students, regardless of previous background or experience. **Satisfies: HC Colloquia**

**HC 407 Leadership and Positive Psychology**

CRN: 22812 Section 003 SEM W 1200 - 1350 2 HC 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: HC Colloquia**

**HC 407 God, Pain, and the Problem of Evil: An Introduction to C.S. Lewis**

CRN: 22479 Section 004 SEM M 1600 - 1750 2 HC Credit(s)

Instructor(s): Gary Ferngren

C. S. Lewis (1898-1963), Oxford don, novelist, literary critic, and theologian, was one of the most gifted and popular theological writers of his generation. From the point of view of orthodox Christianity, Lewis dealt in his theological and imaginative works with some of the most basic and perennial moral and religious questions. **Graded: P/N. Satisfies: HC Colloquia**

**HC 407 Race and Science**

CRN: 26973 Section 005 SEM R 1000 - 1150 2 HC 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: HC Colloquia**

**HC 407 The Art of Science/The Science of Art**

CRN: 22813 Section 006 SEM T 1000 - 1050 1 HC Credit(s)

Instructor(s): Randall Milstein

What do ballerinas and spiral galaxies have in common? Why is photography one of the pivotal inventions of human history? Is the Golden Ratio really a mathematical expression of beauty? This colloquium challenges the mindset that science and art are opposing endeavors, but instead suggest neither would be as powerful without the other since both require great imagination and creativity to be productive and move humankind forward. Guests to aid in our discussions will include visual artists, musicians, dancers, and scientists whose interests and skills blend science and art. This course analyzes relationships among science, technology, culture, and society; identifies and applies concepts and theories of basic physical and biological sciences in conjunction with creative artistic processes; analyzes the role of science and technology in shaping diverse forms of creativity and how creative expressions inspire science and technological innovation; and articulates a critical perspective on the convergence of science and technology in parallel with the creative and performing arts using evidence as support. **Graded: P/N. Satisfies: HC Colloquia**

**HC 407****American Identity in the World**

CRN: 25285

Section 007

SEM

MW 1000 - 1050

2 HC Credit(s)

Instructor(s): Elizabeth Barstow

This class invites you to read about and discuss some the key issues that have contributed to ideas about American identity in the world. As we engage with the class readings, we will constantly ask questions such as:

How have people used the term “American” at different points in United States history? Who has been included or excluded from this category at different points in U.S. history? How have American ideas of the “good” or “correct” life influenced U.S. relations with people in other parts of the globe? What are some of the ways in which Americans have consciously attempted to offer a vision of “American identity” to people in other parts of the globe? How have economic endeavors (and challenges) served to shape American identity both at home and throughout the globe? How has various forms of art—film, literature, music—etc. served to create a sense of American identity? **Graded: P/N. Satisfies: HC**

**Colloquia****HC 407****Crises, Catastrophes, and Cataclysms in Earth History**

CRN: 22814

Section 008

SEM

R 1300 - 1350

1 HC Credit(s)

Instructor(s): Randall Milstein

Often Earth has a bad day: discussions of asteroid impacts, extreme volcanism, solar storms, climate change, and mass extinctions – events and outcomes that have, and will, alter life on Earth. This colloquium will review the scientific evidence, scenarios, and after-effects of significant Earth altering processes. What would happen if Earth were struck by a two kilometer in diameter asteroid? What would happen to American culture if a large coronal mass ejection from the Sun destroyed our power grid? What would be the byproduct of a SARS, Ebola, or avian influenza pandemic among humans? HC 407 analyzes relationships among science, technology, and society; identifies and applies concepts and theories of basic physical and biological sciences; applies scientific methodology to demonstrate formulated conclusions based on observation, analysis, and synthesis; analyzes the role of science and technology in shaping diverse fields of study over time; and articulates a critical perspective on issues involving science, technology, and society using evidence as support. The class offers opportunities to observe astronomical phenomena and objects through solar and nighttime observations, and have our classroom visited by world class experts to speak on certain topics. **Graded: P/N. Satisfies:**

**HC Colloquia****HC 407****History of Aviation**

CRN: 22815

Section 009

SEM

M 1800 - 1950

2 HC Credit(s)

Instructor(s): David Ullman

Machines that fly have evolved for over 200 years and the arc is continuing - beginning with George Caley in the early 19th century, through the Wright Brothers in the early 20th century, the era of records in the 1920s and 30s, the evolution of the war machine in the 1940s, the pilotless eye in the sky of the last 10 years, and on to the promise of unmanned, composite, electric aircraft. This course considers the history and future of aviation from multiple disciplinary perspectives, exploring the development of the technologies; politics; and cultural attitudes toward commercial, military, and general aviation as well as science fiction air travel. We examine the trajectory of these evolutions and try to predict what air travel will look like by mid 21st century. Every member of the class will have the opportunity to contribute to a new edition of a published book seeking to answer the questions: What will your grandchildren see when they look up? How will they fly? **Graded: P/N. Satisfies: HC Colloquia**

**HC 407**                      **Climate Change and Its Challenges: Responding with Resilience in Community**

CRN: 26976                      Section 010                      SEM                      R 800 - 950    2 HC Credit(s)

Instructor(s): Ken Winograd

How much do you think about climate change? Are you curious and/or concerned? If you would like to examine the perils and opportunities of climate change for you personally, this class offers an opportunity to reflect and learn about what scientists and theologians say is the greatest challenge for humankind, ever. Your personal response to climate change will be the point of departure in learning the ways that people, groups and societies are coping, adapting and even thriving with the challenges ahead. A portion of the class consists of a workshop developed by author and activist Joanna Macy, an interactive group process that 'equips us to with tools to face the mess we're in and play our role in the collective transition...to a life-sustaining society.' You will be challenged to rethink your role as citizen 'in community' in a world reshaped by the changing climate. Other related topics we will address in the course include environmental justice, peace literacy, the nature-human relationship, and social activism. Learning activities will include readings, discussion, field experiences, readings, and group reflections. **Graded: P/N. Satisfies: HC Colloquia**

**HC 407**                      **Because It's There (and Looks Fun): Survival as Entertainment**

CRN: 25286                      Section 011                      SEM                      T 1200 - 1350    2 HC Credit(s)

Instructor(s): Robert Drummond

In March of 2013, a George Fox University student who grew up in Grants Pass set out alone to climb Mt. Hood, got lost in a whiteout, and fell 40 feet into a canyon. Badly injured and with only a meager supply of snack food, she survived for almost a week in a snow cave. What combination of mental and physical factors enabled her to endure when others would have perished in her place, and how much did luck have to do with it? Humans crave adventure, pushing our bodies and wills to the limits, testing ourselves against forces much larger than ourselves. Confronting such forces often brings us to the brink of destruction. When things inevitably go wrong, who lives and who dies? Why? In this course we will consider these questions as we examine accounts of survival, of extreme fights with nature. What is it about modern American life that compels some people to seek out danger and a very real and ready risk of self-annihilation? Why do otherwise rational people take such extraordinary risks when no imperative exists beyond mere entertainment? Surely our forebears—many of whom fought every day just to stay alive in a truly dangerous landscape—would think this behavior absurd and irresponsible, as would any number of people around the world who don't live in such a relatively safe environment. Who would so needlessly risk life in a time and place where staying alive is so easy? **Graded: P/N. Satisfies: HC Colloquia**

**HC 407**                      **Imaging the American West**

CRN: 26974                      Section 012                      SEM                      R 1000 - 1150    2 HC Credit(s)

Instructor(s): John Campbell

The American West is formative in American culture. The Western landscape has been imaged as iconic: a stage on which cultural constructions of individualism, gender, empire, otherness, and nature are graphically enacted. Western peoples, similarly, have often been presented as archetypes, representative of American myths, fears, and ideals. In this course, we will explore images of the West—paintings, photographs, and Western films—and their deep implications. We will also create and present original images in order to experience the process and power of visual depiction. **Graded: P/N. Satisfies: HC Colloquia**

**HC 407 Drug Use, Abuse, and Misuse: A Global Perspective**

CRN: 25288 Section 013 SEM M 1300 - 1450 2 HC Credit(s)

Instructor(s): Ray Tricker

This course will provide students with opportunities to compare, contrast, analyze and form conclusions about drug use, misuse and abuse from a global perspective. The course will examine the prevalence of drug abuse, laws, penalties, treatment and rehabilitation in selected countries from different areas around the world and compare findings from these countries to those that are followed in the United States. Students will be encouraged to formulate their own personal perceptions and develop their own models of dealing with the challenges inherent in drug use, abuse and misuse.

**Graded: P/N. Satisfies: HC Colloquia****HC 407 Robots and Romance**

CRN: 23628 Section 014 SEM W 1600 - 1850 2 HC Credit(s)

**Meets Weeks 2-8 only.**

Instructor(s): Gilad Elbom

Our goal in this class is to examine notions of carnal love in science-fiction cinema, paying attention to representations of passion, desire, sex, sensuality, emotion, reproduction, 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 strategies, gender relations, human-computer interaction, intercultural contact, utopia and dystopia, and other themes. We will read some essays on the topic—to be posted on Canvas—and address our movies from multiple perspectives and approaches: social, political, historical, psychological, technological, theological, and so on. **Graded:**

**P/N. Satisfies: HC Colloquia****HC 407 Bob Dylan and 1960s America**

CRN: 26975 Section 015 SEM T 1600 - 1750 2 HC Credit(s)

Instructor(s): Robert Santelli

The words and music of Bob Dylan provided the soundtrack for the 1960s, one of the most turbulent decades in American history. This course explores the ways in which Dylan's music influenced the major events of the '60s as well as the musical and literary implications of his most important songs. **Graded: P/N. Satisfies: HC Colloquia**

**HC 407 Humanizing the Cosmos**

CRN: 25289 Section 016 SEM M 1500 - 1550 1 HC Credit(s)

Instructor(s): Paul Lorenzini

Is there a problem reconciling science with our humanity? The philosopher Simon Critchley argues there is, calling it an “intractable dilemma.” As he puts it, “the philosophical cost of truth seems to be scientism, in which case we become beasts.” On the other hand, “the rejection of scientism through a new humanization of the cosmos seems to lead to obscurantism, in which case we become lunatics.” Is Critchley right? What does he mean and is this really the “dilemma” he says it is? How does Critchley’s concern explain historic tensions between the sciences and the humanities in Western thought and culture? We will try to answer these questions and discuss various ways these tensions have come to express themselves in modern America. **Graded: P/N. Satisfies: HC Colloquia**

**HC 407****Dawn of the Anthropocene**

CRN: 24553

Section 017

SEM

R 1300 - 1350

1 HC Credit(s)

Instructor(s): Jacob Hamblin

We grew up believing that “geological time” and “human history” were quite distinct, with one extending across ages beyond imagination and the other occurring as a tiny blip. But in recent years, scientific findings about the lasting effects of climate change, deforestation, ocean acidification, and other human-caused natural changes have led us to a new realization: we now live in an era of the earth’s history that is defined by human influence. How has this changed the ways we look at the world around us? Does it require a new brand of ethics? Does it make us rethink our own history? Does it direct our imagination? In this course we will explore the environmental arts and humanities to confront the ways our culture responds to living in an age we did not intend, yet is of our own making. **Graded: P/N. Satisfies: HC Colloquia**

**HC 407****Shakespeare via Ashland**

CRN: 25833

Section 018

SEM

**COURSE CONSISTS OF TWO REQUIRED MEETINGS AND A REQUIRED FIELD TRIP.**

1 HC Credit(s)

**Pre-trip meeting W 10/25/17 1600-1650****Required Field Trip 10/27/17 – 10/29/17****Post-trip discussion meeting R 11/2/17 1600-1650**

Instructor(s): Eric Hill

The course requires attendance at an organizational meeting (10/25/17), a three-day field trip (October 27-29, 2017), and one discussion meeting (11/2/17). At this meeting you will turn in and discuss your written assignment.

Write either of two options:

1. a short (no longer than five minute) scene based on one of the plays or
2. an analysis based on at least one character from the play.

Travel Details: Departing Friday, October 27th, at 12:30pm; arrive in Ashland to check into the hotel and leave to see first play. Saturday will consist of two shows. Return Departure Sunday, October 29th, 2016 at 10:00am (following breakfast).

Course Fee of \$240.00 includes tickets for three plays, coach travel, and two nights hotel stay with continental breakfast. Bring money for snacks and meals – only breakfast will be provided. Since all arrangements have been prepaid, the course fee is non-refundable if the course is not dropped prior to the 1st day of the term. All students are required to travel and stay as a group. Pick up class syllabus in the HC office. Please note that this class can only be taken twice for credit. **Required Field Trip 10/27/17 - 10/29/17. Fee Non-Refundable if not dropped by the first day of the term.**

**Course Fee \$240 (non-refundable). Graded: P/N. Satisfies: HC Colloquia**

**HC 407                      Science of Science Fiction**

CRN: 25796                      Section 019                      SEM                      T 1300 - 1350                      1 HC Credit(s)

Instructor(s): Randall Milstein

The good, the bad, the inventive, and the absolutely awful examples of “science” portrayed in science fiction films, television shows, comic books, and literature. Aliens, light sabers, space battles, gravity drives, warp speed, laser beams, star gates, and worm holes; what’s real, what’s a possibility, what’s speculation, and what is impossible. There is a co-dependency between science and science fiction. Many scientists and engineers acknowledge science fiction helped spark their imaginations of what might be possible in science. And science fiction authors are inspired by future science possibilities, but how do novel scientific ideas get into SciFi authors’ heads in the first place? Discussions and viewings of some of our favorite and least favorite science fiction, so we know what to look for while enjoying modern society’s best loved metaphors and mythologies. This course analyzes relationships among science, technology, popular culture, philosophy, and science fiction; identifies and applies concepts and theories of basic physical and biological, and social sciences; applies scientific methodology to demonstrate formulated conclusions based on observation, analysis, and synthesis; analyzes the role of science, technology, and philosophy in shaping science fiction in popular entertainment and literature; and articulates a critical perspective on issues involving science, technology, entertainment, philosophy, and society using evidence as support. **Graded: P/N. Satisfies: HC Colloquia**

**HC 407                      Have Rocket, Will Travel**

CRN: 26977                      Section 020                      SEM                      W 1000 - 1150                      2 HC Credit(s)

Instructor(s): Stephen Atkinson

Sinatra and Bowie sang about it, Wells and Clark wrote about it, and people like Elon Musk and Jeff Bezos are spending billions of their own money to reinvent the industry. So, are you ready to go to space? Together we will explore the history, motivations, physics and fantasy behind rockets and space travel. From Rocket Science 101, to the Space Race, to current and future space missions, this course will inspire you with both the fiction and realities of leaving the green Earth for the emptiness of Out There. Students with non-science/engineering backgrounds are most welcome! A typical class will involve a seminar on the weekly topic (some delivered by guest speakers), student presentations, group discussions and hands-on activities. We anchor each lesson by viewing excerpts from NASA TV and the Cosmos series. We will compare what we learn from these nonfiction sources, with how space travel has been portrayed in movies and on tv, including *Star Trek*, *Gravity*, *Interstellar* and *The Martian*. At least two weeks will include out-of-classroom learning experiences such as tours of labs on campus, a Space Walk, and a Rocket Team challenge. There will be no mid- or final-exams, but participants will have to submit their class journal and advertising poster for grading at end-of-term.

**Satisfies: HC Colloquia****HC 407                      Science Journal Club**

CRN: 26978                      Section 021                      SEM                      TR 1400 - 1450                      2 HC Credit(s)

Instructor(s): Christopher Mathews

A journal club is an activity in which members who share a common scientific interest meet periodically to discuss recent publications in the field of interest. In this colloquium (formerly called The News of Science) the members take all of science as the field of interest. We do this by reading current issues of *Science*, the weekly newsmagazine of the American Association for the Advancement of Science. Each student will select articles of his/her own choosing and deliver brief oral reports in class (four during the term), each to be followed by general discussion of the article. Articles selected may be either general, aimed at the educated lay public, or more technical. All presentations, however, must be intelligible to undergraduates who may be taking their first college-level science courses. Examples of topics covered in presentations could include DNA robotics, earthquake prediction, the obesity epidemic, ancient DNA and human evolution, teaching evolution in public schools, issues connected with mass vaccination, maintenance of forensic DNA data banks, ethical aspects of publication in science, the microbiome and human health, research funding issues, or science of climate change. **Satisfies: HC Colloquia**

**NEW ADDITION!**

**HC 407 Exploring History Through The Graphic Novel**

CRN: 27569 Section 022 SEM T 1700 - 1850 2 HC Credit(s)

Instructor(s): Andrea Marks

This 2-credit colloquium uses the graphic novel, as a means to explore various cultures and histories. Students will read 8-10 graphic novels over the course of a term and engage in lively discussions once a week. **Satisfies: HC Colloquia**

**NEW ADDITION!**

**HC 407 Disruptive Innovation: Can We Disrupt From Within?**

CRN: 27570 Section 023 SEM R 1400 - 1550 1 HC Credit(s)

**Meets Weeks 2-6 only**

Instructor(s): Dave King

Clayton Christensen, from the Harvard Business School, has documented disruptive Innovation in corporate environments for more than 20 years. Join this discussion about what makes innovation disruptive, why it is important to how change occurs, and how you can apply these ideas in your future careers. The colloquium will include a variety of readings and video assignments, class discussions and will conclude with an innovation design project. Meets Weeks 2-6 only.

**Satisfies: HC Colloquia**

**HC 408 Workshop THESIS: LEARN**

CRN: 21452 Section 001 WS R 1700 - 1850 1 HC Credit(s)

**Meets Weeks 2, 4, and 8 only.**

Instructor(s): TBD Advisor, Indira Rajagopal & Kevin Ahern

In this course you will learn to 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, etc.), and we'll hear from students and faculty with experience in the thesis process. You will complete all of the tasks related to stage 2 of the TheSIS process by: 1) Summarizing an interview/conversation with a faculty member who could serve as a mentor, 2) Summarizing an interview/conversation with an Honors student currently working on their thesis, and 3) Exploring a series of resources and opportunities available to successfully complete the thesis. The Undertake module of the TheSIS is then designed to move students through the steps required to complete a signed thesis proposal and pose some additional questions relevant to this stage of their experience. Course will be team taught. Meets weeks 2 (10/5/17), 4 (10/19/17), and 8 (11/16/17) only. **PREREQS:** Prior completion of TheSIS stage: START as outlined at [honors.oregonstate.edu/thesis](http://honors.oregonstate.edu/thesis). **Graded: P/N. Satisfies: HC Thesis/Research/Projects**

**HC 408 Workshop THESIS: UNDERTAKE**

CRN: 22816 Section 002 WS R 1600 – 1750 1 HC Credit(s)

**Meets Weeks 3 and 6 only.**

Instructor(s): Rebekah Lancelin & TBD

This course will guide students through the third step of the Thesis Success in Stages (TheSIS) process, UNDERTAKE. We will cover the process of developing a thesis topic, finding a thesis mentor, creating a thesis statement, writing a thesis proposal, and developing a research plan. The course will require participants to turn in a completed thesis proposal signed by a thesis mentor, the end goal of the UNDERTAKE stage and a required component of the thesis process in the Honors College. Meets weeks 3 (10/12/17) and 6 (11/2/17) only. **PREREQS:** Prior completion of TheSIS stages: START and LEARN as outlined at [honors.oregonstate.edu/thesis](http://honors.oregonstate.edu/thesis). **Graded: P/N. Satisfies: HC Thesis/Research/Projects**



**HC 408 Workshop THESIS: GRADUATE**

CRN: 24246 Section 003 WS F 1400 – 1550 1 HC Credit(s)

**Meets Weeks 2, 4, and 6 only.**

Instructor(s): Tara Williams

This course will guide students through the final stage of the Thesis Success in Stages (TheSIS) process, GRADUATE. 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.

Meets weeks 2 (10/6/17), 4 (10/20/17), and 6 (11/3/17) only. PREREQS: Prior completion of TheSIS stages: START, LEARN, and UNDERTAKE as outlined at [honors.oregonstate.edu/thesis](http://honors.oregonstate.edu/thesis). **Graded: P/N. Satisfies: HC**

**Thesis/Research/Projects****HC 409 PRAC/Civic Engagement**

CRN: 22962 Section 005 PRAC 1 HC 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. Participating honors students commit to serving on average 2-3 hours per week within their project site, keep track of their service hours, and complete a 2 page reflection paper due at the end of the term. Additional information, including placement opportunities, is available at:

<http://oregonstate.edu/cce/ongoing>. Students must meet with an HC advisor to complete a Learning Agreement and a CCE staff member to discuss placement opportunities. Placement must take place no prior to the start of the term.

**Graded: P/N. Satisfies: HC Elective****HC 409 PRAC/Conversants**

CRN: 18710 Section 007 PRAC 1 HC 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, keep a log of the times and places they met and the topics discussed, and complete a 2 page reflections 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 an HC advisor to complete a Learning Agreement. Applications must be submitted online no later than the end of week 1. **Graded: P/N. Satisfies: HC Elective**

**HC 409 HC Peer Mentor Program**

CRN: 25290 Section 009 PRAC TBA 1 HC Credit(s)

**OR**

CRN: 25517 Section 010 PRAC TBA 1 HC Credit(s)

Instructor(s): LeeAnn Baker

For participating mentors in the Honors College Peer Mentoring Program. This course will explore a number of topics that are pertinent to a peer mentor's role including: Peer mentoring theory, challenges faced by first-year and transfer students, the impact of peer mentoring on minoritized student populations, effective communication, cultural competency, etc. The goal of the course is to allow students to learn effective peer mentoring strategies through practical application of theory and self-reflection. **Graded: P/N. Satisfies: HC Elective**

**HHS 231H**                      **Lifetime Fitness for Health**

CRN: TBD                      Section 001                      LEC                      MW 1300 - 1350                      2 HC Credit(s)

Instructor(s): Erica Woekel

Provides up-to-date and relevant health and wellness information; practical strategies to implement positive behavior change in physical activity, nutrition, and stress management throughout college and the lifespan. **Satisfies: HC Bacc Core - Fitness**

**HST 385H**                      **The Arab-Israeli Conflict**

CRN: 26789                      Section 001                      LEC                      TR 1000 - 1150                      4 HC Credit(s)

Instructor(s): Jonathan Katz

Examination of the origins of the Arab-Israeli conflict and subsequent efforts to find a lasting solution. **Satisfies: HC Bacc Core - Contemporary Global Issues**

**HST/PHL/REL 210H**                      **Religion in the United States**

CRN: 26790                      Section 001                      LEC                      TR 1400 - 1550                      4 HC 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/REL 210H.

**Satisfies: HC Bacc Core - Difference, Power, and Discrimination**

**ME 382H**                      **Introduction to Design**

CRN: 22394                      Section 001                      LEC                      MWF 1200 - 1250

**AND**

CRN: 22395                      Section 010                      LAB                      F 1000 - 1150                      1 HC Credit(s)

Instructor(s): Robert Paasch

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. 1 out of the 4 OSU credits earned counts toward Honors College requirements. PREREQS: ENGR 248 and ME 250. ME 250 can be taken concurrently. ME 316 is recommended. RESTRICTIONS: Must be enrolled in Pro-School in the College of Engineering. Engineering Physics, Manufacturing Engineering, Mechanical Engineering, Industrial Engineering, and Nuclear Engineering majors/minors only. **Satisfies: HC Elective**

**ME 430H**                      **Systems Dynamics and Controls**

CRN: 22923                      Section 001                      LEC                      MW 1200 - 1350                      4 HC Credit(s)

Instructor(s): Geoff 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).

RESTRICTIONS: Must be enrolled in Pro-School in the College of Engineering. Electrical and Computer Engineering, Mechanical Engineering, Nuclear Engineering, and Electrical and Electronics Engineering majors/minors only.

**Satisfies: HC Elective**

**ME/NSE 332H Heat Transfer**

CRN: 26793 Section 001 LEC MW 800 - 950 4 HC Credit(s)  
 Instructor(s): James Liburdy

A treatment of conductive, convective and radiative energy transfer using control volume and differential analysis and prediction of transport properties. Crosslisted with NSE 332H. PREREQS: (MTH 256/256H AND ENGR 212/212H) AND (ME 311/311H OR NE 311/311H OR NSE 311/311H) AND (ME 331/331H OR NE 331/331H OR NSE 331/331H).  
 RESTRICTIONS: Must be enrolled in Pro-School in the College of Engineering. Mechanical Engineering, Industrial Engineering, and Nuclear Engineering majors/minors only. **Satisfies: HC Elective**

**MIME 101H Introduction to MIME**

CRN: 25829 Section 001 LEC MW 1400 - 1450 3 HC Credit(s)  
AND

CRN: 25830 Section 010 REC F 1200 - 1350  
OR

CRN: 25831 Section 011 REC F 1400 - 1550

Instructor(s): Nancy Squires & Ean Ng

Provides students with an overview of mechanical, industrial, manufacturing, and energy systems engineering careers and an introduction to technical areas of study. Skills necessary for success in both the academic curriculum and in the engineering profession will also be emphasized, including communication and ethics. RESTRICTIONS: This course is **not** for Pro School College of Engineering Students. **Satisfies: HC Elective**

**MTH 251H Differential Calculus**

CRN: 19730 Section 001 LEC MW 800 - 850 & F 800 - 950 4 HC Credit(s)  
 Dan Rockwell  
OR

CRN: 23873 Section 002 LEC MWF 1000 - 1120 Hoe Woon Kim  
OR

CRN: 25919 Section 003 LEC MWF 830 - 950 Juan Restrepo

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. PREREQS: MTH 112. Sufficient test scores may waive MTH 112 PREREQ. **Course Fee \$10. Satisfies: HC Bacc Core - Mathematics**

**MTH 252H**                      **Integral Calculus**

CRN: 23577                      Section 002                      LEC                      MWF 1000 - 1120                      4 HC Credit(s)

Instructor(s): Filix Maisch

The integral is the second big idea in calculus. In the same way that the derivative measures rate of change, the integral measures net change. Applications in physics, engineering and geometry are numerous. 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. **PREREQS: MTH 251/251H. Course Fee \$10. Satisfies: HC Elective**

**MTH 254H**                      **Vector Calculus I**CRN: 19731                      Section 001                      LEC                      MWF 1400 - 1520                      4 HC Credit(s)  
Radu Dascaliuc**OR**

CRN: 21693                      Section 002                      LEC                      MF 900 - 950 &amp; W 900 - 1050                      Adel Faridani

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. **PREREQS: MTH 252/252H. Course Fee \$10. Satisfies: HC Elective**

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

CRN: 21823                      Section 001                      LEC                      MWF 1000 - 1050                      3 HC 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: HC Bacc Core - Literature and the Arts**

**NSE/ME 332H**                      **Heat Transfer**

CRN: 26792                      Section 001                      LEC                      MW 800 - 950                      4 HC Credit(s)

Instructor(s): James Liburdy

See ME 332H for course description. Crosslisted with ME 332H. **PREREQS: (MTH 256/256H AND ENGR 212/212H) AND (ME 311/311H OR NE 311/311H OR NSE 311/311H) AND (ME 331/331H OR NE 331/331H OR NSE 331/331H).** **RESTRICTIONS: Must be enrolled in Pro-School in the College of Engineering. Nuclear Engineering majors/minors only in the NSE 332H section. Mechanical Engineering and Industrial Engineering majors/minors should register for ME 332H. Satisfies: HC Elective**

**OC 407H                      Astrobiology**

CRN: 21958                      Section 001                      SEM                      TR 1300 - 1350                      2 HC Credit(s)

Instructor(s): Rick Colwell &amp; Martin Fisk

The question of whether life exists elsewhere in the universe is a verifiable scientific hypothesis. "Astrobiology" is an interdisciplinary course that combines aspects of astronomy, physics, chemistry, geology, and biology that are relevant to the origin and evolution of life and its possible distribution in the universe. Students will use the basic scientific principles of these five fields of science to explore the limits of life in the cosmos. Classroom activities or projects will be used to demonstrate the principles. Altogether the out-of-class assignments and preparation for the next class will take from 1 to 3 hours of effort per class. RECOMMENDED PREREQS: One year of college-level chemistry is **strongly** recommended.

**Satisfies: HC Colloquia****PAC 293H                      Mindfulness Skills for Creative Resilience**

CRN: 26795                      Section 001                      Activity                      T 1500 - 1650                      1 HC Credit(s)

Instructor(s): Tsipora Berman

Journey to the seen and the unseen through a multi-sensory, interdisciplinary, transformative study of mindfulness utilizing a fun, creative variety of individual and group mind/body practices applicable to everyday life and across academic disciplines. Develop your own imagination, intuition, inspiration, integration, and interpretation including 15 sensory perceptions to live to your highest potential with resilience to navigate the challenges of personal and professional endeavors. You will unravel the mysteries of why the 5,000 year old science of Yoga is all encompassing, integrated with Positive Psychology, Physics, Neuroscience, Human Biology, and grounded in the eight-part awakening process. From STEM to Liberal Arts, from Education to Sports, from Political Science to World Health, students from any discipline will co-create a research-based platform from which to expand self-awareness to support your particular contribution to the world. **Course Fee \$49. Satisfies: HC Bacc Core - Fitness**

**PH 221H                      Recitation for Physics 211**

CRN: 20774                      Section 001                      REC                      T 1100 - 1150                      1 HC Credit(s)

Instructor(s): Bo Sun

Honors recitation reserved for HC students enrolled in lecture/lab sections of PH 211. One-hour weekly session for the development of problem-solving skills in calculus-based general physics. PH 211 and PH 221H combined total 5 OSU credits. 1 out of those 5 OSU credits counts toward Honors College requirements. COREQ: PH 211. **Satisfies: HC Elective**

**PH 222H                      Recitation for Physics 212**

CRN: 19732                      Section 001                      REC                      R 1100 - 1150                      1 HC Credit(s)

Instructor(s): David Roundy

Honors recitation reserved for HC students enrolled in lecture/lab section of PH 212. One-hour weekly session for the development of problem-solving skills in calculus-based general physics. PH 212 and PH 222H combined total 5 OSU credits. 1 out of those 5 OSU credits counts toward Honors College requirements. COREQ: PH 212. **Satisfies: HC Elective**

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

CRN: 21453 Section 001 SEM TR 1400 - 1450 2 HC Credit(s)

Instructor(s): Albert Stetz

This course explores various ways in which modern science and religion intersect. We will be studying among other things the intelligent design debate, neuroscience and its relevance to the nature of human consciousness and free will, and cosmology and the creation and fine tuning of the universe. The course is loosely structured around the book "The Big Questions in Science and Religion" by Keith Ward. Students are asked to write six brief essays based on chapters from the text together with collateral reading. Class time will be devoted to lectures and discussion of the issues raised by these essays. **Satisfies: HC Colloquia**

**PHL/ENG/WGSS 295H Feminism and the Bible**

CRN: 27070 Section 001 LEC M 1600 - 1850 3 HC Credit(s)

Instructor(s): Susan Shaw

See ENG 295H for course description. Crosslisted with ENG/WGSS 295H. **Satisfies: HC Bacc Core - Literature and the Arts**

**PHL/REL 444H Biomedical Ethics**

CRN: 22396 Section 001 LEC MW 1000 - 1150 4 HC Credit(s)

Instructor(s): Courtney Campbell

BaccalaureateCore Course 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. Crosslisted with REL 444H. **Satisfies: HC Bacc Core - Science, Technology and Society**

**PHL/REL/HST 210H Religion in the United States**

CRN: 26796 Section 001 LEC TR 1400 - 1550 4 HC Credit(s)

Instructor(s): Amy Koehlinger

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

**REL/PHL 444H Biomedical Ethics**

CRN: 25294 Section 001 LEC MW 1000 - 1150 4 HC Credit(s)

Instructor(s): Courtney Campbell

See PHL 444H for course description. Crosslisted with PHL 444H. **Satisfies: HC Bacc Core - Science, Technology and Society**

**REL/PHL/HST 210H Religion in the United States**

CRN: 26797                      Section 001                      LEC                      TR 1400 - 1550                      4 HC Credit(s)

Instructor(s): Amy Koehlinger

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

**ST 351H Introduction to Statistical Methods**

CRN: 25477                      Section 001                      LEC                      MWF 800 - 850

**AND**

CRN: 25464                      Section 010                      LAB                      F 1000 - 1120                      1 HC Credit(s)

Instructor(s): Jeff Kollath

Study designs, descriptive statistics, collecting and recording data, probability distributions, sampling distributions for means and proportions, hypothesis testing and confidence intervals for means and proportions in one- and two-sample inference, and chi-square tests. Lecture is common with non-honors. Lab is reserved for HC students only. 1 out of the 4 OSU credits earned counts toward Honors College requirements. PREREQS: High school algebra with statistics. **Satisfies: HC Elective**

**WGSS 235H Women in World Cinema**

CRN: 24249                      Section 001                      LEC                      W 1600 - 1850                      3 HC Credit(s)

Instructor(s): Mehra Shirazi

In this honors level 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 framework. Analyzing the politics of representation will allow us to consider the ways in which women around the world have been imagined, constructed, regulated, and represented in various discourses and media formats. Doing so also allows us to understand how women's lives have been deeply affected by colonialism, globalization, nationalist movements, war and militarism, and other processes. Students will be introduced to concepts in feminist film theory and criticism, and various themes and theoretical principles of transnational feminist organizing, with special emphasis placed on women of the global South. 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: HC Bacc Core - Cultural Diversity**

**WGSS/ENG/PHL 295H Feminism and the Bible**

CRN: 26798                      Section 001                      LEC                      M 1600 - 1850                      3 HC Credit(s)

Instructor(s): Susan Shaw

See ENG 295H for course description. Crosslisted with ENG/PHL 295H. **Satisfies: HC Bacc Core - Literature and the Arts**

**WLC 231H                      German Dictatorships: Nazis and Communists**

CRN: 26969                      Section 001                      LEC                      F 1000 - 1250                      3 HC Credit(s)

Instructor(s): Sebastian Heiduschke

Students enrolling in WLC 231H German Dictatorships will engage with primary printed and visual texts from the two German dictatorships of the 20th century to explore life under the Nazi regime from 1933-1945 and the Communists from 1945-1990. We will use the classroom as exploratory space to engage critically with products created by the oppressors as well as the oppressed. This course requires the willingness to read and to take innovative and creative approaches to engaging with our texts. RESTRICTIONS: Sophomore standing required. **Satisfies: HC Bacc Core - Western Culture**

**WR 121H                      English Composition**

CRN: 25468                      Section 001                      LEC                      TR 830 - 950                      3 HC Credit(s)  
Clare Braun

**OR**

CRN: 26799                      Section 002                      LEC                      MWF 1600 - 1650                      Elizabeth Delf

Instructor(s): Clare Braun & Elizabeth Delf

Introduction to critical thinking, the writing process, and the forms of expository writing. Intensive writing practice, with an emphasis on revision. WR 121H does NOT have alphabetical restrictions. **Satisfies: HC Bacc Core - Writing I**