First course in a two-course sequence. Begins a conversation on self-management, offering opportunities for active reflection on critical skill sets necessary for success in today's global market. Builds a foundation of entrepreneurial knowledge and gaining a competitive edge while becoming aware of your role in managing your own career. The section of BA 161H students take in Winter determines which section of BA 162H they will need in the Spring - instructors will help students match their winter and spring sections of the courses during class. This course is shared with a section for COB Dean's Academy students. Honors students should register for section 019 and choose either section 010, 012, 014, or 016. 2 out of the 3 OSU credits earned will count toward Honors College requirements. No-show-drop: students who do not attend the class by the second class meeting will be removed from the course. RESTRICTIONS: For first-year, pre-business students only. Satisfies: HC Elective

Managerial Accounting

Accounting information from the perspective of management users with an emphasis on data accumulation for product costing, planning, and performance evaluation and control. This course is shared with a section for COB Dean’s Academy students. Honors students should register for section 001. No-show-drop: students who do not attend the class by the second class meeting will be removed from the course. PREREQS: BA 211/211H. RESTRICTIONS: Pre-Business Majors/Minors only. Minimum of sophomore standing required. Satisfies: HC Elective

Legal Environment of Business

Nature and function of law in our business society. Obligations arising out of agency, contract formation and breach, crimes, torts, warranty, regulation of competition, and international aspects thereof. This course is shared with a section for COB Dean’s Academy students. Honors students should register for section 001. No-show-drop: students who do not attend the class by the second class meeting will be removed from the course. RESTRICTIONS: Pre-Business Majors/Minors only. Minimum of sophomore standing required. Satisfies: HC Elective

Foundations of Statistical Inference

An introductory course on statistical inference with an emphasis on business applications. Coverage includes descriptive statistics, random variables, probability distributions, sampling and sampling distributions, statistical inference for means and proportions using one and two samples, and linear regression analysis. This course is shared with a section for COB Dean’s Academy students. Honors students should register for section 001. No-show-drop: students who do not attend the class by the second class meeting will be removed from the course. PREREQS: MTH 241 OR MTH 251/251H. RESTRICTIONS: Pre-Business Majors/Minors only. Minimum of sophomore standing required. Satisfies: HC Elective
BA 352H  Managing Individual and Team Performance  4 HC Credit(s)

CRN: 39612  Section 001  LEC  TTh 1400 - 1550

Instructor(s): Chad Murphy

Diagnose individual and small-group behavior and develop skill in improving individual and small-group performance in entrepreneurial and established ventures. Emphasis on professional skill development and the practical application of theory and research. Concepts of ethics, diversity and cross-cultural relations are integrated throughout the course. This course is shared with a section for COB Dean’s Academy students. **Honors students should register for section 001.** No-show-drop: students who do not attend the class by the second class meeting will be removed from the course. PREREQS: COMM 111/111H or COMM 114/114H. RESTRICTIONS: Business majors/minors only. Junior or senior class standing required. **Satisfies: HC Elective**

BA 357H  Operations Management  4 HC Credit(s)

CRN: 39154  Section 001  LEC  TTh 1200 - 1350

Instructor(s): Gary Micheau

Decision making in managing the production of goods and services: product planning, process planning, facility planning, control of quantity, cost and quality. Special emphasis on exponential forecasting, inventory management, work methods, project management, productivity improvement, and international comparisons. This course is shared with a section for COB Dean’s Academy students. **Honors students should register for section 001.** No-show-drop: students who do not attend the class by the second class meeting will be removed from the course. PREREQS: BA 275/275H OR BA 276. RESTRICTIONS: Business Majors/Minors only. Junior or senior class standing required. **Satisfies: HC Elective**

BA 360H  Introduction to Financial Management  4 HC Credit(s)

CRN: 37966  Section 003  LEC  TTh 1000 - 1150

Instructor(s): Sean Yang

Explore the issues facing a financial manager in new business ventures, small businesses, and corporations. Focus on the role of the financial manager in business settings, explores the functions of a financial manager in financial analysis, forecasting, planning, and control; asset and liability management; capital budgeting; and raising funds for new business ventures, small businesses, and corporations. This course is shared with a section for COB Dean’s Academy students. **Honors students should register for section 001.** No-show-drop: students who do not attend the class by the second class meeting will be removed from the course. PREREQS: (BA213/213H OR BA 215/215H) AND (ECON 201/201H OR AREC 250). RESTRICTIONS: Business Majors/Minors only. Junior or senior class standing required. **Satisfies: HC Elective**

BA 390H  Marketing  4 HC Credit(s)

CRN: 39156  Section 001  LEC  MW 1400 - 1550

Instructor(s): Mark Van Order

Consumer and industrial markets, and activities and enterprises involved in distributing products to those markets. Objective is to develop an understanding of distribution processes, marketing problems, and marketing principles. This course is shared with a section for COB Dean’s Academy students. **Honors students should register for section 001.** No-show-drop: students who do not attend the class by the second class meeting will be removed from the course. PREREQS: ECON 201/201H OR AREC 250. RESTRICTIONS: Business Majors/Minors only. Junior or senior class standing required. **Satisfies: HC Elective**
**BA 465H  Systems Thinking and Practice**  
4 HC Credit(s)  
CRN: 33243  
Section 001  LEC  TTh 1000 - 1150  
Instructor(s): Jonathan King

This course will get you to “think outside the box” by examining the hard and soft systems which both sustain and constrain us. This involves learning how to identify patterns of interactions (and reactions), the increasing relevance of emotional intelligences and fight/flight responses, and the realities of “Tools ‘R Us” (how our tools and our environments determine how we think and how we act). The ultimate objective is to enhance our awareness of individual moral responsibilities and opportunities by moving beyond linear causality and the subjective-objective and fact-value dualisms that continue to plague modern thought and action. **Satisfies: HC BaccCore - Contemporary Global Issues**

**BI 212H  Principles of Biology**  
4 HC Credit(s)  
CRN: 32386  
Section 001  LEC  MWF 1300 - 1350  
Group Midterms  
AND choose one LAB section  
CRN: 32387  
Section 010  LAB  W 1400 - 1650  
Nathan Kirk  
CRN: 33246  
Section 020  LAB  Th 800 - 1050  
Carmen Harjoe  
CRN: 39614  
Section 030  LAB  F 1400 - 1650  
Carmen Harjoe

Cell biology, organ systems, plant and animal biology. Group Midterms Mondays 1900-2020. PREREQS: CH 121 OR CH 201 OR CH 221 OR CH 224H OR (CH 231/231H AND (CH 261/261H OR CH 271)). RESTRICTIONS: For Life Science Majors and Pre-Professional students. **Course Fee $30. Satisfies: HC BaccCore - Biological Sciences**

**BI 370H  Ecology**  
3 HC Credit(s)  
CRN: TBD  
Section 001  LEC  TTh 1200 - 1320  
Instructor(s): Sarah Henkel

The study of interactions between organisms and their biotic and abiotic environments at the population, community, ecosystem, and biosphere levels of organization. PREREQS: (BI 211/211H and BI 212/212H and BI 213/213H) or (BI 204 and BI 205 and BI 206). **Satisfies: HC Elective**

**BOT 407H  Ecology and Environmental Quality in the Himalaya**  
1 HC Credit(s)  
CRN: 39158  
Section 800  SEM  T 1400 - 1550  
Meets weeks 1-5 only  
Instructor(s): Donald Zobel

This course integrates information from physical science, biology, agriculture, and regional cultures. We will summarize the physical environment and biotic diversity of the Himalayan Mountains, with emphasis on patterns of vegetation and its use by people. We consider a set of real problems that cause malnutrition and environmental degradation. We consider the accuracy of "well-known facts" and the problems of dealing with uncertainty in scientific data as well as in estimating social and economic responses to proposed solutions. Meets weeks 1-5 only. **Graded: P/N. Satisfies: HC Colloquia**
CBEE 102H  Engineering Problem Solving and Computations  2 HC Credit(s)

CRN: 34402  Section 001  LEC  MW 1500 - 1550

AND choose one LAB section

CRN: 34403  Section 010  LAB  TTh 800 - 950
CRN: 35088  Section 020  LAB  TTh 1000 - 1150

Instructor(s): Staff TBA

Elementary programming concepts implemented using MATLAB software; emphasis on problem analysis and development of algorithms in engineering; application experiences are established through a team-based design competition using the LEGO NXT microprocessor for data acquisition. Lecture is common with non-honors. 2 out of the 3 OSU credits earned count toward Honors College requirements. PREREQ: MTH 112 OR MTH 251/251H. RESTRICTIONS: For Pre-Bioengineering, Pre-Environmental Engineering, Pre-Chemical Engineering, and Pre-General Engineering students only. Satisfies: HC Elective

CBEE 212H  Energy Balances  1 HC Credit(s)

CRN: 35364  Section 001  LEC  MF 1000 - 1050

AND

CRN: 35365  Section 010  REC  W 1000 - 1050

AND

CRN: 35366  Section 020  STD  T 1300 - 1350

Instructor(s): Staff TBA

Energy balances, thermophysical and thermochemical calculations. 1 out of the 3 OSU credits earned counts toward Honors College requirements. Lecture and recitation common with non-honors. PREREQS: CBEE 211/211H AND MTH 256/256H. MTH 256/256H can be taken concurrently. RESTRICTIONS: For Engineering and Pre-Engineering students only. Minimum of sophomore standing required. Satisfies: HC Elective

CH 232H  General Chemistry  4 HC Credit(s)

CRN: 34408  Section 001  LEC  MWF 1200 - 1250  Richard Nafshun

AND choose one REC section

CRN: 34535  Section 010  REC  T 1500 - 1550  Richard Nafshun
CRN: 34536  Section 011  REC  Th 1400 - 1450  Richard Nafshun

AND choose one CH 262H LAB section

CH 262H  Laboratory for Chemistry 232H  1 HC Credit(s)

CRN: 34409  Section 010  LAB  T 1200 - 1450  Michael Burand
CRN: 34410  Section 011  LAB  Th 1500 - 1750  Michael Burand

Second course in General Chemistry sequence for Honors College students with one-year high school chemistry and acceptable aptitude test scores. This sequence examines the characteristics of molecular and atomic behavior and the way in which these influence chemical properties and reactions. PREREQ: CH231/231H OR CH 221. COREQ: CH 262/262H or CH272. CH 232H and CH 262H must be taken concurrently. CH 231/231H, CH232/232H, and CH233/233H must be taken in order. Course fee: $30. Satisfies: HC BaccCore - Physical Sciences
CH 362H Experimental Chemistry I 3 HC Credit(s)

Choose sections 010 & 011 OR sections 020 & 021

CRN: 32360  Section 010  LEC  T 1200 - 1250
CRN: 32361  Section 011  LAB  T 1300-1550 & R 1200-1550

OR

CRN: 32362  Section 020  LEC  W 1200 - 1250
CRN: 32363  Section 021  LAB  W 1300-1550 & F 1200-1550

Instructor(s): Christine Pastorek

Advanced integrated laboratory course for sophomore level chemistry majors and biochemistry and biophysics majors concentrating on organic synthesis, thermochemistry and spectroscopic methods of identification. Students learn first hand techniques of: vacuum distillation, oxygen bomb calorimetry, infrared spectroscopy, and 1-D and 2-D NMR methods. Must contact Chemistry department to register. PREREQ: CH 361/361H AND CH 335. CH 335 can be taken concurrently. RESTRICTIONS: For Chemistry and Biochemistry/Biophysics majors only. Course Fee $44.00. Fee is non-refundable. Additional no-show-drop fee. Satisfies: HC Elective

CH 462H Experimental Chemistry II 3 HC Credit(s)

CRN: 32364  Section 001  LEC  W 1300 - 1350

AND

CRN: 32365  Section 010  LAB  W 1400-1650 & F 1300-1650

Instructor(s): Christine Pastorek

Advanced integrated laboratory course for junior level chemistry majors concentrating on physical and analytical chemistry of polymers and materials. Students synthesize a synthetic rock, zeolite, and make PMMA, a polymer. Students learn first hand techniques of: PXRD, INAA, DSC, TGA, GPC, electrochemistry, reaction kinetics by flash photolysis, pulsed polarography and ASV. Must contact Chemistry department to register. PREREQ: CH 362/362H AND CH 441 AND (CH 324 OR CH 461/461H). CH 422 is recommended. Course Fee $44.00. Fee is non-refundable. Additional no-show-drop fee. Satisfies: HC Elective

CHE 332H Transport Phenomena II 1 HC Credit(s)

CRN: 35641  Section 001  LEC  TTh 1200 - 1250

Group Midterms

AND

CRN: 35640  Section 010  STD  MW 1300 - 1350

Instructor(s): Staff TBA

A unified treatment using control volume and differential analysis of heat transfer, prediction of heat transport properties, and introduction to heat transfer operations. Lecture is common with non-honors courses. 1 out of the 3 OSU credits earned counts toward Honors College requirements. PREREQ: CHE 311 AND CHE 331/331H. RESTRICTIONS: Must be enrolled in pro-school in the College of Engineering. Satisfies: HC Elective

ED 216H Purpose, Structure, & Function of Education in a Democracy 3 HC Credit(s)

CRN: 39159  Section 001  LEC  MWF 1600 - 1650

Instructor(s): Mike O'Malley

This course will examine the historical, social, philosophical, political, legal, and economic foundations of education in Oregon, the United States, and other countries in order to provide a framework from which to analyze contemporary educational and environmental issues in various schools, communities, and workplaces. Satisfies: HC BaccCore - Difference, Power, and Discrimination
ENG 220H  Topics in Difference, Power, and Discrimination
US Fictions of Difference and Belonging

CRN: 39160  Section 001  LEC  MWF 1400 - 1450

Instructor(s): Elizabeth Sheehan

This course focuses on twentieth and twenty-first century art that addresses, contests, and reimagines the configurations of race, ethnicity, gender, class, sexuality, ability, and citizenship that shape the U.S. We will study writing and visual art by Toni Morrison, Djuna Barnes, Lorna Dee Cervantes, Eli Clare, Edwidge Danticat, Fae Myenne Ng, Lorna Simpson, and Coleson Whitehead (who will visit OSU early next spring). These readings will be paired with foundational and cutting-edge scholarship about the history and impact of categories of difference and systems of power in the U.S. To that end, we will read work by leading critics in queer and feminist theory, studies of race and ethnicity, disability studies, and American studies. As a DPD course, we will aim to understand how difference, power, and discrimination operate in the U.S., while also exploring how art illuminates, protests, refuses, and imagines alternatives to those systems and structures. Satisfies: HC BaccCore - Difference, Power, and Discrimination

ENGR 299H  Experiencing Engineering Research

CRN: 39782  Section 001  SEM  Th 1400 - 1550

Instructor(s): Irem Tumer

The College of Engineering seeks to encourage faculty/student collaboration in research and to engage students in the study of issues related to engineering. This class 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. This class 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

ENGR 391H  Engineering Economics and Project Management

CRN: 38273  Section 001  LEC  TTh 1400 - 1520

Instructor(s): Ean Ng

The traditional roles engineers and scientists are changing rapidly to roles that require solid management and technical skills. This course explores the transition from engineer and/or scientist to manager, through two fundamental engineering and technology management skills: project management and engineering economic analysis. The combination of project management and engineering economic analysis will provide students a glimpse into the life cycle of engineering/technology projects and the management/decision making behind such projects. RESTRICTIONS: For Pre-Engineering and Engineering students only. Satisfies: HC Elective
### ES 357H  
**Farmworker Justice Movements**  
4 HC Credit(s)  
CRN: 39161  
Section 001  
LEC  
W 1600 - 1950  
**Required field trips (during scheduled class time)**  

Instructor(s): Ronald Mize  

Justice movements for farmworkers have a long and storied past in the annals of US history. This course begins with the 1960s Chicano civil rights era struggles for social justice to present day. Focus on the varied strategies of four farmworker justice movements: United Farm Workers, Farm Labor Organizing Committee, Pinos y Campesinos Unidos Noroeste, and the Coalition of Immokalee Workers. The course is structured around the question of the movement and its various articulations. Together, we will cover some central themes and strategies that comprise the core of farm worker movements, but the course is designed to allow you to explore other articulations you find personally relevant or of interest. Students work directly with movement organizers through partial course co-facilitation with a founder of PCUN, experiential learning trips (all during regular class meeting hours) to the PCUN archives at University of Oregon, PCUN headquarters in Woodburn, and state capital in Salem.  

Satisfies: HC BaccCore - Difference, Power, and Discrimination

### H 100H  
**Introduction to Public Health**  
4 HC Credit(s)  
CRN: 35369  
Section 001  
LEC  
TTh 1000 - 1150  

Instructor(s): Viktor Bovbjerg  

This course covers the basic elements of public health and the complex ethical and political issues central to it, with an emphasis on experiential learning. Several sessions are conducted in the field so that students get hands-on experience. A major element of the course is a student-directed exploration of a public health topic of interest to each student.  

Course Fee: $9. Satisfies: HC Elective

### HC 199  
**Honors Writing**  
3 HC Credit(s)  

**Choose one section**  

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<tr>
<th>CRN</th>
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<th>Instructor(s): Eric Hill</th>
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<tr>
<td>32736</td>
<td>001</td>
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<td>31128</td>
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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. PREREQ: WR 121/121H. Satisfies: HC BaccCore - Writing II

### HC 299  
**Building Hope: International Service Learning**  
1 HC Credit(s)  
CRN: 34886  
Section 800  
SEM  
Th 1400 - 1550  
**Meets weeks 1-5 only**  

Instructor(s): Dave Kovac  

This course series is designed to engage students in exploring the impact, perspectives, challenges, and complexities of international service work. In the fall, we focus on cultural contexts. Winter highlights group development and team building. In spring, we examine individual, group, and community impact of service and volunteerism. The optional international service trip later in the year applies concepts, ideas, and energies to the international community served. The optional 10- to 14-day trip is not an element of this class, but is part of the program that this class supports. In the past, our projects have included work in Romania, Ethiopia, Vietnam, and Nepal. Meets weeks 1-5 only. Satisfies: HC Colloquia
HC 299 MoPOP Trip

CRN: 39162  Section 801  SEM

Instructor(s): Ryan Biesack

This unique colloquium combines some preparatory reading, listening, and discussion, and culminates in a trip to the Museum of Pop Culture in Seattle. Here we will explore collections and installations of some of the most important artists, bands, sounds, fashion, media, instruments and technology that have helped define popular music throughout history, shaping and reflecting our society in the process. Special attention will be given to the work of Jimi Hendrix and Nirvana, as both hail from Seattle, and the MoPOP houses both phenomenal collections. The course requires attendance at an organizational meeting (Friday, 1/11/19), a required three-day field trip (Friday 2/1/19 – Sunday 2/3/19), and one discussion meeting (Friday, 2/8/19). The course fee covers lodging, two breakfasts, transportation, and entrance into the museum. Bring money for snacks and meals, besides breakfast (which 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. **Course Fee: $149. Graded: P/N. Satisfies: HC Colloquia**

HC 299 Leadership: Two Perspectives

CRN: 39783  Section 802  SEM

Instructor(s): Toni Doolen & Scott Ashford

Today's organizations are complex, utilizing structures that cross cultural, national, and functional boundaries. Leaders in organizations must be able to navigate these complex structures, while understanding that that organizations are comprised of individuals. Students in this course will examine different aspects of leadership and explore multiple perspectives on what creates/constitutes an effective leader. Students will be provided multiple opportunities to reflect on how to develop and grow their own leadership capacity. This course will be co-taught by Dr. Ashford, Dean of the College of Engineering and Dr. Doolen, Dean of the Honors College and Dean of the College of Education. Meets weeks 1-5 only. **Graded: P/N. Satisfies: HC Colloquia**

HC 299 / HST 299H The History Games

Choose either the HC 299 section OR the HST 299H section

HC 299 CRN: 37561  Section 003  SEM

OR

HST 299H CRN: 37562  Section 001  SEM

Instructor(s): Amy Koehlinger

This course uses curriculum developed by Reacting to the Past (https://reacting.barnard.edu/), which consists of elaborate games, set in the past, in which students are assigned roles informed by classic texts in the history of ideas. Class sessions are run by students; instructors advise and guide and grade their oral and written work. It seeks to draw students into the past, promote engagement with big ideas, and improve intellectual and academic skills. This course uses 2 games “Greenwich Village, 1913” and “Chicago 1968” to explore politics, radicalism and social reform in the U.S. in the 20th century. HC 299 section 003 is crosslisted with HST 299H. **Graded: P/N. Satisfies: HC Colloquia**
We all belong to one or more 'in' groups. We share values, ideals, and opinions with others in the group. Examples can include belonging to religious groups, political groups and socioeconomic groups. We identify with these groups and they strongly influence how we think about particular issues, often more than we realize. We reinforce each others thinking. But what happens when data or evidence challenges the thinking of the group? How do individuals within the group respond and how does the group respond? As different 'in' groups become more polarized from other groups, how do we initiate dialogues to find common ground and advance needed changes? The class will explore various examples of such 'in' groups, how the opinions of the group are reinforced by social media, targeted news outlets and other sources, and what it takes for a group to alter its thinking. Learning objectives will be met with in class discussions, out-of-class readings, and writing assignments. Satisfies: HC Colloquia

In this class, we will study the history of racism in the United States and, more specifically, within the state of Oregon. In addition to reading texts written by historians, we will also read a number of articles published by contemporary media and some documents pertaining to OSU (for example, the reports surrounding the renaming of buildings at OSU). We will also have regular visits from guest speakers in this class. The speakers will address topics such as racism in Corvallis, strategies for being an activist, and ways that OSU is making efforts to deal with the history of racism. Students will work in pairs to design and implement a project that seeks to combat racism at the local (Corvallis or perhaps Oregon as a whole) level and will report on its status at the end. Graded: P/N. Satisfies: HC Colloquia

C. S. Lewis (1898-1963), Oxford don, novelist, and literary critic, was one of the most gifted and popular theological writers of his generation. Lewis dealt in his philosophical and imaginative works with some of the most basic and perennial moral and religious questions. The format will consist of discussion based on selected readings from four well-known books of C. S. Lewis. I will encourage the expression of a variety of points of view and help students both to analyze Lewis's ideas and to express their own opinions in a rational and informed manner. Lewis is provocative and his writings lend themselves to discussion and debate. A writing component is included in the form of a short paper of eight to ten pages based on the assigned reading for the course. The topic: ‘How does C. S. Lewis develop and illustrate in his fictional works the themes that he discusses in his philosophical works?’ It will be graded on both content and style. Verbal communication skills will be cultivated by the discussion format. Graded: P/N. Satisfies: HC Colloquia

This course will be an exploration of some of the most exciting space missions, both past and present. Satellites are used to study space and earth science, provide important communication links around the world and give us a glimpse of distance planets, moons and asteroids in our solar system and beyond. The course will also include an overview of satellite orbits, fundamentals of the rocket science used to launch satellites to the correct orbit, an overview of satellite power systems and how they communicate data back to earth. Current industry and research practices of satellite mission design will be explored. An optional viewing of a prominent satellite's fly-by is planned. Satisfies: HC Colloquia
HC 407  Energy IQ  2 HC Credit(s)
CRN: 33893  Section 005  SEM  TTh 1600 - 1650
Instructor(s): Skip Rochefort

We will take both a qualitative and quantitative look at energy resources and uses in the United States. We will consider
how energy is generated or obtained and consumed in the US. We will also explore the global implications of energy use
and consumption. We will examine predominant and emerging technologies on both the resource and consumption
sides. We will also examine the role of ethics, values, and public policy in influencing choices regarding energy use.
Students will participate in and lead discussions, give presentations, and generate a personal energy
philosophy/statement. Satisfies: HC Colloquia

HC 407  Historical Fictions and Fictional Histories  2 HC Credit(s)
CRN: 37565  Section 006  SEM  Th 1000 - 1150
Instructor(s): Thomas Bahde

Cultural critic and theorist Hayden White writes: “If there is an element of the historical in all poetry, there is an
element of poetry in every historical account of the world.” Historian Simon Schama says similarly: “The asking of
questions and the relating of narratives need not... be mutually exclusive forms of historical representation.” This course
explores the ways in which both historians and novelists construct historical stories, and examines the premise that
there is more than one way to tell a true story. We will inquire into how creative imagination helps us comprehend
historical experience, and we will seek an understanding of historical truth that embraces both the authority of history
and the empathy of literature. Graded: P/N. Satisfies: HC Colloquia

HC 407  Folly's Mirror: The Power and Reach of Contemporary Satire  2 HC Credit(s)
CRN: 36833  Section 007  SEM  T 1200 - 1350
Instructor(s): Robert Drummond

Master satirist Mark Twain said that “against the assault of laughter nothing can stand.” For evidence of this in our own
time, we look to Jon Stewart, Stephen Colbert, The Onion, and SNL, to name a few. In fact, a recent Pew Research
Center study found that a growing percentage of 18- to 29-year-old Americans cite satirical media as their primary
source for political news. We will use these popular media outlets as a springboard into understanding how satire works
and what makes it so effective. What knowledge is required to get the humor, and how does that multiply its
effectiveness? How exactly does satire differ from its cousins, parody and sarcasm? We’ll also ask what the popularity of
“fake” or satirical news sources say about American society and culture (not to mention what it might say about the
“real” news). The course will provide a brief foundation in satire's long and rich history, but focus primarily on
contemporary uses. Students will complete a term project, which will be a satire of their own making. Projects will allow
for maximum flexibility while requiring students to illustrate a sophisticated grasp of satire in their chosen cultural
context. Graded: P/N. Satisfies: HC Colloquia

HC 407  Science, Ethics, and Star Trek  1 HC Credit(s)
CRN: 37566  Section 008  SEM  Th 1400 - 1450
Instructor(s): Diana Rohlman

“What you’re doing isn’t self-defense. It’s the exploitation of another species for your own benefit. My people decided a
long time ago that that was unacceptable, even in the name of scientific progress.” Captain Kathryn Janeway.
To this day, while we have the ability to clone animals (and therefore humans), the ethical and moral ramifications have
tempered many scientific advances. The fictional universe of Star Trek often explores the nexus of advanced
technologies and the resultant ethical considerations. This class will use episodes from the Star Trek universe, paired
with real-life case studies to delve into the seen and unforeseen consequences of advanced technologies. Examples
include experimental surgical techniques, genetic engineering, cloning, artificial intelligence and environmental
regulations. Satisfies: HC Colloquia
HC 407  OSU, Women, and Oral History: An Exploration of 150 Years  2 HC Credit(s)
CRN: 37567  Section 009  SEM  T 1000 - 1150
Instructor(s): Tiah Edmundson-Morton & Chris Petersen

This is your opportunity to both study Oregon State University's history and become part of it. This class will focus on women's experiences at OSU, exploring themes, moments and, problems in OSU's 150 years through the lens of story. As a participant in this class, you will be asked to prepare, conduct, and make available an in-depth oral history interview with a woman who works or studies on this campus (or who once did). These interviews will then be made available to the public through a dedicated web portal that you will help to create. Taught by two archivists and experienced oral historians, the class will take a combined approach to instruction, making use of lectures, historic images, film clips, discussion and document analysis as we explore topics related to women's history, as well as the practice and theory of oral history. Attention will be devoted to topics as diverse as the enforcement of social and cultural expectations of women; the advancement of women and the impact of Title IX; the nature of memory; and even the role that silences can play in an oral interview. By the end of the term, you will have broadened your understanding of the OSU story while also creating a preserved scholarly resource in which you can take pride. Graded: P/N. Satisfies: HC Colloquia

HC 407  Data Driven Enchanted Objects  2 HC Credit(s)
CRN: 37568  Section 010  SEM  T 1200 - 1350
Instructor(s): Chet Udell

Arthur C. Clarke wrote, “Any sufficiently advanced technology is indistinguishable from magic.” How have our ideas of enchanted objects inspired new technology over time? How has advancing technology transformed our notions of magic? What are we doing today that would be considered magical a few decades ago? What do we consider magical now that may be possible in mere decades? You will explore these ideas through experiential hands-on projects using plug and play wireless sensors to build your very own enchanted objects that interact with the seemingly magical digital world around us.

From Harry Potter to Hunger Games, magical objects are not only ubiquitous in our popular culture, but have also fundamentally transformed the products we use and the things we can do in daily life. Shoes keep track of how far and fast we run, watches detect when their bearer has heart trouble, and you can click your heels three times (to send an emergency call to your phone) to get out of a meeting or bad date. While technologies and the words we use to describe them may evolve, our desire to acquire objects that augment our capacities to gain knowledge, communicate, protect, and create have remained largely consistent throughout recorded history and across cultural barriers. Enchanted objects that facilitate these wishes are extant in our folklore, mythologies, epic poems, religious texts and can be found in much of our earliest recorded literature. We'll supplement and inform our project experiences through reading and video excerpts you select to investigate a variety of magical objects and their real-world counterparts throughout history. Graded: P/N. Satisfies: HC Colloquia
A survey of sites, megaliths, caves, mountains, and structures considered sacred to human cultures. What do the caves of Lascaux, France; the pyramids of Giza, Egypt; and the temples of Teotihuacan, Mexico have in common? Why are Stonehenge and Calanish in Great Britain significant to Celtic culture and modern geologists and astronomers? Mecca, Rapa Nui, Angkor Wat: why are these loci for our curiosity and philosophical attention? The one thing all these sites, and many more, have in common is a link to ancient astronomical observations. This colloquium is not a survey of competing spiritual philosophies, but a discussion of what makes such sacred sites significant historically, scientifically, and culturally, especially as they relate to ancient astronomy. This class analyzes relationships among science, technology, culture, and society; identifies and applies concepts and theories of basic physical and historical sciences in conjunction with social processes; and analyzes the role of culture and technological innovations in creating and shaping geographic locations into places of significant importance in human history. The class articulates a critical perspective on the convergence of social, political, and cultural needs in parallel with the creative and technological advances necessary to develop locations of spiritual significance. There will be multiple opportunities for day and night viewing through telescopes atop Weniger Hall or at nearby outdoor observation points in conjunction with on-going Physics Department astronomy classes. Weather and class size permitting, optional field trips to exceptional viewing locations or to specialty facilities may be planned. **Graded: P/N. Satisfies: HC Colloquia**

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 that 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 ScFi 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**
Cities in the United States and abroad are fast becoming innovation leaders. This course engages students with an interdisciplinary look at the city as environment (engineering, design and planning, cultural services, governance and environmental science, urban farms, energy, water treatment). There is so much coming out about these topics every week that it is challenging to keep up, but is fascinating, exciting, and inspiring to upcoming leaders and professionals. This colloquium should have broad appeal across the humanities, sciences and social sciences, and subdisciplines of engineering. From world archaeological sites, to national and international travel, to fictional and film depictions of cities real and imaginary, cities are exciting to visit, imagine, and study. Since earliest times, cities are complex trade hubs and population centers, providing a home and vast services to humans but also wildlife. Looking at what we know of ancient cities, such as the famous port city of Thonis-Heracleion that sank into the sea 1200 years ago off Egypt’s Abu Qir Bay, helps us to understand them culturally and historically, but also structurally and environmentally as many present coastal cities are experiencing or threatened by enormous infrastructure challenges, including catastrophic storms, flooding, and sea level rise. The course consists of weekly sessions incorporating reading, lecture, discussion, guest speakers, and work in groups (discussion and writing) in an online class forum. Satisfies: HC Colloquia

In this course, we'll explore ways in which we construct meaning with objects. We won't focus on art objects per se, but rather on "found objects" – natural objects or cultural artifacts not originally intended as art, but found and considered to have aesthetic or cultural value. Beginning with examples of found objects from art history and natural history, we'll practice descriptive, analytical, and interpretive skills via close observation, discussion, writing, and imaging. Then we'll move to specific objects of your choosing, applying interdisciplinary approaches to describe, interpret, analyze, and appreciate the objects in various physical and temporal contexts. We'll explore such concepts as materiality, ephemerality, and memory, while “placing” the objects in both possible and imagined contexts in order to derive meaning and pleasure from them. Ultimately, you'll present your found objects to the colloquium, using interdisciplinary and perhaps multi-media modes (text, image, oral narrative, etc.) to convey connection, appreciation, creative analysis, and focused speculation, as well as to promote further inquiry into “everyday” objects in general. Graded: P/N. Satisfies: HC Colloquia
How would you interpret a “thumbs up” sign? Does it mean approval? Time to surface? Someone needs a ride? When it comes to signs, context can be everything. Semiotics began as a study of linguistics, but has grown to include the study of different sorts of signs (icons, indices, symbols), of how meaning is communicated in various ways. We will be looking at examples of signs, systems of sign making, cultural contexts, miscommunication, and more. Our age of visual literacy makes semiotics more significant (yes, that was a pun) than ever before. Graded: P/N. Satisfies: HC Colloquia

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, and more. Students will look at how we use and think (or sometimes how we don’t think) about translating various forms of communication. We will begin with some fundamental concepts that will include etymology, grammar, dialect versus language, 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 and writings about translation. They will write about and present examples of how language works in a variety of contexts. Graded: P/N. Satisfies: HC Colloquia

The principal aim of this colloquium is to acknowledge Peggy Guggenheim’s contribution to modern art and literature. Between 1920 and 1950 she was at the epicenter in London, Paris, and then New York during World War II, of all new groundswell currents: post-cubism, surrealism, expressionism, Mondrian’s De Stilj, Pollock and abstract expressionism. In the later years of her life, she transformed her residence in Venice into a permanent museum for her collected works from this period. Satisfies: HC Colloquia

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: Learning Through Play

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<th>Section 023</th>
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<td>Instructor(s): Hannah Rempel</td>
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Games motivate people to learn in new ways; games are engaging; and games encourage learners to try something new without fearing failure. Educators know this and have created many educational games (some admittedly more fun than others). But can all games teach us something? Join this class and learn how different games can encourage learning. We'll explore which types of games help us learn best, we'll research what learning scientists know about games, and we'll test games to see how well they stack up to our fun and learning criteria. Based on what we learn, we'll even create games of our own. And yes, we'll play games along the way! **Satisfies: HC Colloquia**

### HC 407: Last Year Experience

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<td>Instructor(s): Don Johnson</td>
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The Last Year Experience seminar is intended to better prepare you for your transition to post-college and into your career. You already possess a level of skill and creative thinking that will lead you to your self-defined level of success. The goal of this seminar is to help you identify and display your talents and, hopefully, support your understanding and comfort around transitioning into “life after college.” Elements of the course include: support from the Oregon State University Alumni Association, personal finances, considering a GAP Year, making connections to your career world, conversation with OSU Alumni, how to define and display the nature of yourself and your skills, and considering where to physically spend life. **Graded: P/N. Satisfies: HC Colloquia**

### HC 407: Publishing Underground: Publishing Technology and Radical Reform

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<td>Instructor(s): Kelly McElroy &amp; Korey Jackson</td>
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From punk counterculture and zines to #blacklivesmatter and Twitter to anti-lynching activism and pamphleteering in the U.S. - how have activists made their voices heard through specific kinds of publishing? And how have their strategies created new types of publications, even entirely new genres? This course explores different modes of publishing the voices of historical and contemporary social reform and the technologies that enable them (moveable type and the printing press, engraving and screen printing, xerography/photocopying, desktop printers, and web-based platforms). Each week we will take on a particular publication coming out of a particular social movement, discovering just how the politics of activism are informed by (and themselves inform) a wide variety of publication techniques and technologies. We will explore not only the use of various publishing formats but also how institutions of power have reacted to their use, and how such publications have been censured or co-opted. We will also be looking at how certain publishing formats privilege specific kinds of literacy and literate populations. The course covers a lot of territory--both geographical and chronological--but our focus will be less on broad historical analysis and more on what each publishing format/technology can tell us about its particular context. There will also be ample opportunity to try your hand at creating your own publications using the technologies discussed in class. At the end of the term you'll have the chance to create a final project using one of the publishing methods from class, addressing a social movement or social justice issue you’re passionate about. **Graded: P/N. Satisfies: HC Colloquia**
HC 407 Social Change: Strategies, Impact, Technology, and Solutions 2 HC Credit(s)

CRN: 39833 Section 029 SEM F 1200 - 1550
Meets weeks 2, 4, 6, 8, and 10 only

Instructor(s): Kendra Sharp

This course is being offered in partnership with SolutionsU, an arm of the Solutions Journalism Network. SolutionsU staff will help collate the reading collections and instruct for the course. The course includes a community engagement piece where students will be asked to research, including through interviews, a local organization that is using a positive response to address local or global social problems. Students will be encouraged to use multi-media components in their course assignments - so if you are interested in using creative forms of expression such as documentary clips for official OSU credit, this course could be for you! We will host an end-of-term event organized in collaboration with the Honors College and/or the Office of Civic Engagement, where students will report their research on the positive responses of these local organizations to social problems and opportunities for future civic engagement or volunteering by members of our OSU community. Meets weeks 2, 4, 6, 8, and 10 only. Graded: P/N. Satisfies: HC Colloquia

HC 407 Imaging the Universe 1 HC Credit(s)

CRN: 39786 Section 030 SEM W 1700 - 1750

Instructor(s): Tom Carrico

The universe is far more than what our eyes can see. Students will start expanding their view by learning the basics of astrophotography. Using their own cameras of any type, students will go outside and image the night sky. You will learn various methods of image processing that will help tease out all available information. From there, the course will look at many of the resources available that will reveal more of the spectrum of the universe, including radio telescopes, orbiting observatories, and other novel techniques. There will be opportunities to look through solar telescopes, experience a local star party with a wide range of telescopes, and connect to and image through a telescope on a remote mountain in New Mexico. By the end of the course, the full spectrum of the universe will be revealed. Graded: P/N. Satisfies: HC Colloquia

HC 407 After Studying Abroad 1 HC Credit(s)

CRN: 39960 Section 801 SEM F 1200 – 1350
Meets weeks 6-10 only

Instructor(s): Tara Williams

Have you participated in a study abroad program or an international academic experience? Would you like to think more about that experience and how it affected you and your perspective on the world? Then this colloquium is designed for you! Each week, we will explore a topic related to international education—such as personal development, intercultural learning, or social justice—through in-class discussions and activities as well as brief written reflections in a “post-travel journal.” We will also read recent research on study abroad programs and their impacts in order to consider how that research captures our experiences (or doesn’t). For the final project, you will take into account what you’ve learned from the readings, reflections, and discussions to design your ideal international program and present it to the class. Meets weeks 6-10 only. Graded: P/N. Satisfies: HC Colloquia

HC 407 The Designed World 1 HC Credit(s)

CRN: 39784 Section 802 SEM T 1000 – 1150
Meets weeks 1-5 only

Instructor(s): Lee Ann Garrison

What is design? The Designed World is the world we live in from houses to fashion to products and entertainment to fine arts. It is the world we create for ourselves. This course explores a brief history of design and ends with a plan to intentionally design your own life. Meets weeks 1-5 only. Graded: P/N. Satisfies: HC Colloquia
HC 407  Introduction to Traditional Ecological Knowledge (TEK)  2 HC Credit(s)
CRN: TBD  Section 401  Online
Instructor(s): Samantha Hatfield

The goal of this course is to understand Traditional Ecological Knowledge (TEK) and sustainability practices from a Native American perspective, focusing on the Pacific Northwest but also addressing other Tribes nationally. The emphasis will be on techniques the Siletz have implemented and continue utilizing, but we will also incorporate other techniques from tribal perspectives in local and national areas, as well as how these utilizations coincide with agencies on local, state, and federal levels. This class will focus on how state and federal guidelines, laws, and regulations affect and implement tribal policies and tribal members. This course promotes TEK as a viable sustainability technique and teaches students and community members about further understanding TEK, in cooperation through agencies and policies such as treaties and NAGPRA on Indigenous lands, traditional areas, and cultural practices. This is an Ecampus course. Tuition rates for Ecampus courses are different than on-campus courses and can be found at ecampus.oregonstate.edu/services/tuition. Satisfies: HC Colloquia

HC 408  Thesis: Stage 2 Explore & Build  1 HC Credit(s)
CRN: 33711  Section 001  HYB  W 1700 - 1750
Meets weeks 2, 4, 6, and 9
Instructor(s): Kassena Hillman

HC 408: Stage 2 Explore & Build will guide you through the second stage of the Thesis Success in Stages (TheSIS) process. In this class you will explore the many resources at the HC and OSU to help you find a mentor and a project, build strategies for a successful thesis experience, learn the components of the thesis, and plan out your next steps. You will also hear from students and faculty with recent experience in the thesis process. You do not need to have a thesis idea to be in Stage 2. PREREQS: Completion of “Stage 1: Plan” workshop. This course is a hybrid course that consists of weekly online assignments and one hour in-person class meetings weeks 2, 4, 6, & 9. This course will be team taught with an HC Academic Advisor and HC faculty. Graded: P/N. Satisfies: HC Thesis/Research/Projects

HC 408  Thesis: Stage 3 Commit  1 HC Credit(s)
CRN: 36363  Section 002  WS  Th 1600 – 1750
Meets weeks 3 and 7 only
Instructor(s): Rebekah Lancelin & Kathy Mullett

This course will guide students through Stage 3 of the Thesis Success in Stages (TheSIS) process, Commit. 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, which is the end goal of the Commit stage and a required component of the TheSIS process in the Honors College. Meets weeks 3 and 7 only. PREREQS: Prior completion of TheSIS stages 1 & 2 as outlined at honors.oregonstate.edu/thesis. Graded: P/N. Satisfies: HC Thesis/Research/Projects

HC 408  Thesis: Stage 4 Compose & Complete  1 HC Credit(s)
CRN: 35630  Section 003  WS  F 1400 - 1550
Meets weeks 2, 4, and 6 only
Instructor(s): Ben Mason

This course will guide students through the final stage of the Thesis Success in Stages (TheSIS) process, Compose & Complete. The goals of this stage 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, 4, and 6 only. PREREQS: Prior completion of TheSIS stages 1, 2, & 3 as outlined at honors.oregonstate.edu/thesis. Graded: P/N. Satisfies: HC Thesis/Research/Projects
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**

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 prior to the start of the term. **Graded: P/N. Satisfies: HC Elective**

This professional and career development course is designed to increase your awareness of skills necessary for a successful life after college. We will work together to create a customized development plan focused on your strengths and weaknesses with an aim to achieve your development goal. We will give you the fundamentals and you will practice these skills with your classmates and the larger community. Part of the course will include attending professional development and career events. This course is for anyone who hopes to have a smooth transition to adulthood! Course will meet formally all odd weeks, with individual development plan assignments being completed all even weeks. **Graded: P/N. Satisfies: HC Elective**

This course uses curriculum developed by Reacting to the Past (https://reacting.barnard.edu/), which consists of elaborate games, set in the past, in which students are assigned roles informed by classic texts in the history of ideas. Class sessions are run by students; instructors advise and guide and grade their oral and written work. It seeks to draw students into the past, promote engagement with big ideas, and improve intellectual and academic skills. This course uses 2 games “Greenwich Village, 1913” and “Chicago 1968” to explore politics, radicalism and social reform in the U.S. in the 20th century. HST 299H is crosslisted with HC 299 section 003. **Graded: P/N. Satisfies: HC Colloquia**
HST/REL 324H  Ancient Jewish History

Choose either the HST 324H section OR the REL 324H section

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<td>OR</td>
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Instructor(s): Kevin Osterloh

History of Judaism from the Second Temple through the early Rabbinic period (539 BCE--200 CE). Covers historical origins and developments of Judaism including the canonization of the Bible, Jewish life in the Persian and Greco-Roman worlds, and the beginnings of Diasporic and Rabbinic Judaism. HST 324H is crosslisted with REL 324H. Satisfies: HC BaccCore - Cultural Diversity

HST/REL 425H  Holocaust in its History

Choose either the HST 425H section OR the REL 425H section

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<td>HST 425H</td>
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<td>OR</td>
<td>REL 425H</td>
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Instructor(s): Kara Ritzheimer

An inquiry into the causes, course, and impact of the Holocaust. The general theme of anti-Semitism in European history is explored for background. Topics discussed for comparative purposes include anti-Semitism in American history; other episodes of mass murder in the 20th century. HST 425H is crosslisted with REL 425H. Satisfies: HC BaccCore Contemporary Global Issues

ME 317H  Intermediate Dynamics

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Instructor(s): Ross Hatton

Continuation of the study of kinematics and kinetics of particles and rigid bodies, with applications to mechanical systems of current interest to engineers. PREREQS: ENGR 212/212H AND MTH 256/256H. RESTRICTIONS: For Manufacturing, Mechanical, Industrial, Nuclear, and Electrical & Computer Engineering majors only. Must be enrolled in pro-school in the College of Engineering. Satisfies: HC Elective

ME 383H  Mechanical Component Design

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<td>AND</td>
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Instructor(s): Robert Paasch

Failure analysis and design of machine components. PREREQS: ME 316 AND ME 250. RESTRICTIONS: For Mechanical and Nuclear Engineering majors only. Must be enrolled in the pro-school in the College of Engineering. 1 out of the 4 OSU credits earned counts toward Honors College requirements. Satisfies: HC Elective
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. PREREQ: MTH 251/251H. Course Fee $10. Satisfies: HC Elective

MTH 254H  Vector Calculus I

CRN: 33894  Section 001  LEC  MW 1400-1450 & F 1400-1550
Instructor(s): Staff TBA


MTH 255H  Vector Calculus II

CRN: 33712  Section 001  LEC  MW 1000-1050 & F 1000-1150
Instructor(s): Staff TBA

Introduction to vector analysis: line integrals and work, conservative fields, surface integrals and flux, divergence, curl, and the theorems of Gauss and Stokes. Emphasis on geometric intuition, not just computation. Especially suitable for those with an interest in physics and engineering, as well as mathematics. PREREQ: MTH 254/254H. Course Fee $10. Satisfies: HC Elective

MTH 256H  Applied Differential Equations

Choose sections 001 & 002  OR  sections 003 & 004

CRN: 32367  Section 001  LEC  MWF 1300 - 1350  Staff TBA
CRN: 35635  Section 002  REC  W 1200 - 1250  Staff TBA

OR

CRN: 36476  Section 003  LEC  MWF 1400 - 1450  Staff TBA
CRN: 37162  Section 004  REC  W 1500 - 1550  Staff TBA

First order linear and nonlinear equations, and second order and higher order linear equations, Laplace transform, and applications appropriate for science and engineering. PREREQ: MTH 254/254H. Satisfies: HC Elective

MTH 306H  Matrix and Power Series Methods

CRN: 32394  Section 001  LEC  MWF 1000 - 1120
Instructor(s): Staff TBA

This class will move at a fast pace from day one. We plan to cover most of the textbook. Topics will include introduction to matrix algebra, determinants, systematic solution to linear systems, and eigenvalue problems. Convergence and divergence of series with emphasis on power series, Taylor series expansions, convergence tests for power series, and error estimates for truncated series used in practical approximations. PREREQ: MTH 252/252H. MTH 254/254H recommended. Satisfies: HC Elective
MUS 101H  Music Appreciation: A Survey  3 HC Credit(s)
CRN: 39174  Section 001  LEC  MWF 1200 - 1250
Instructor(s): Kimary Fick

This course examines the Western Art Music tradition through historical and cultural contexts and focuses on developing perceptive listening skills through the study of musical forms and styles. Through a variety of teaching methods, this class will involve greater student engagement of the course material. In addition to traditional lectures, students will participate in active, small-group discussions; present group presentations; write short, in-class responses to readings; attend local concerts; and write a concert review. This course is open to non-music-majors. Satisfies: HC BaccCore - Literature and the Arts

PAC 293H  Interdisciplinary Yoga: Mindfullness Skills  1 HC Credit(s)
CRN: 39175  Section 001  ACT  T 1400 - 1550
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 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 8,000 year old science of Yoga is all-encompassing, integrated with Positive Psychology, Physics, Neuroscience, Human Biology, and grounded in the eight-part awakening process. Course Fee: $49. Satisfies: HC BaccCore - Fitness

PH 222H  Recitation for Physics 212  1 HC Credit(s)
CRN: 33022  Section 001  REC  T 1100 - 1150
Instructor(s): Staff TBA

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. COREQ: PH 212. Graded: P/N. Satisfies: HC BaccCore - Physical Sciences

PH 223H  Recitation for Physics 213  1 HC Credit(s)
CRN: 33021  Section 001  REC  Th 1100 - 1150
Instructor(s): Staff TBA

Honors recitation reserved for HC students enrolled in lecture/lab section of PH 213. One-hour weekly session for the development of problem-solving skills in calculus-based general physics. COREQ: PH 213. Graded: P/N. Satisfies: HC BaccCore - Physical Sciences

PH 313H  Energy Alternatives  3 HC Credit(s)
CRN: 39176  Section 001  LEC  TTh 800 - 920
Instructor(s): Jack Higginbotham

Exploration of the challenges and opportunities posed by dwindling resources; physical and technological basis of our current energy alternatives; new or controversial technologies such as nuclear or solar power; overview of resource availability, patterns of energy consumption, and current governmental policies. Recommended Prereqs: Upper-division standing and 12 credits of introductory science. Satisfies: HC BaccCore - Science, Technology, Society
Are photons real? Can you change the past by doing an experiment in the present? Can you kill Schrodinger's cat by looking at it? Is it true that a watched pot never boils? Can you send quantum information faster than the speed of light? Quantum mechanics is so weird, what is reality really like? These and many related questions have intrigued scientists since the birth of quantum mechanics almost a century ago. Much progress has been made, but there is a sense that we must drastically revise our understanding of reality, and no one is quite sure how to do that. These questions are partly philosophical and partly technical, but the technical part can be understood with a minimum of math and physics. In this course we will review the most bizarre aspects of quantum mechanics, look at the experiments that have been done to elucidate them, and discuss the philosophical ramifications. Satisfies: HC Colloquia

**PHL/REL 160H**  
**Quests for Meaning: World Religions**  
Choose either the PHL 160H section OR the REL 160H section

**PHL 160H**  
CRN: 36477  
Section 001  
LEC  
MW 1000 - 1140

**OR**

**REL 160H**  
CRN: 36478  
Section 001  
LEC  
MW 1000 - 1140

Instructor(s): Geoffrey Barstow

A survey and analysis of the search for meaning and life fulfillment represented in major religious traditions of the world, such as Hinduism, Buddhism, Taoism, Zen, Confucianism, Judaism, Christianity, and Islam. PHL 160H is crosslisted with REL 160H. Satisfies: HC BaccCore - Cultural Diversity

**PHL 275H**  
**Introduction to Disability Studies**

CRN: 39177  
Section 001  
LEC  
TTh 1200 - 1320

Instructor(s): Stephanie Jenkins

Introduces core concepts and themes in the multidisciplinary field of disability studies. Analyzes disability as a product of discriminatory, oppressive, and inaccessible built environments and societies. Explores disability pride, culture, and community as alternatives to medical and charity models of disability. Satisfies: HC BaccCore - Difference, Power, Discrimination

**PSY 499H**  
**Data Analysis in R**

CRN: 39787  
Section 001  
LEC  
F 1000 - 1350

Instructor(s): Jason McCarley

R is a free programming language that has become the standard for data analysis in psychology's open-science movement. Students in this course will learn basic programming and data analysis skills in R, along with good data management and open-science practices. Activities will include analyzing and visualizing data, simulating behavioral and cognitive processes, and documenting and sharing data and code in a manner that promotes scientific transparency. This class is shared with a section for graduate students. Satisfies: HC Elective
REL/PHL 160H  Quests for Meaning: World Religions  4 HC Credit(s)

Choose either the REL 160H section OR the PHL 160H section

PHL 160H  CRN: 36477  Section 001  LEC  MW 1000 - 1140
OR
REL 160H  CRN: 36478  Section 001  LEC  MW 1000 - 1140

Instructor(s): Geoffrey Barstow

A survey and analysis of the search for meaning and life fulfillment represented in major religious traditions of the world, such as Hinduism, Buddhism, Taoism, Zen, Confucianism, Judaism, Christianity, and Islam. REL 160H is crosslisted with PHL 160H. Satisfies: HC BaccCore - Cultural Diversity

REL/HST 324H  Ancient Jewish History  4 HC Credit(s)

Choose either the REL 324H section OR the HST 324H section

HST 324H  CRN: 39617  Section 001  LEC  TTh 1600 - 1750
OR
REL 324H  CRN: 39619  Section 001  LEC  TTh 1600 - 1750

Instructor(s): Kevin Osterloh

History of Judaism from the Second Temple through the early Rabbinic period (539 BCE--200 CE). Covers historical origins and developments of Judaism including the canonization of the Bible, Jewish life in the Persian and Greco-Roman worlds, and the beginnings of Diasporic and Rabbinic Judaism. REL 324H is crosslisted with HST 324H. Satisfies: HC BaccCore - Cultural Diversity

REL/HST 425H  Holocaust in its History  4 HC Credit(s)

Choose either the REL 425H section OR the HST 425H section

HST 425H  CRN: 39618  Section 001  LEC  TTh 1200 - 1350
OR
REL 425H  CRN: 39620  Section 001  LEC  TTh 1200 - 1350

Instructor(s): Kara Ritzheimer

An inquiry into the causes, course, and impact of the Holocaust. The general theme of anti-Semitism in European history is explored for background. Topics discussed for comparative purposes include anti-Semitism in American history; other episodes of mass murder in the 20th century. REL 425H is crosslisted with HST 425H. Satisfies: HC BaccCore Contemporary Global Issues

WGSS 325H  Disney: Gender, Race, and Empire  3 HC Credit(s)

CRN: 39178  Section 001  LEC  T 1600 - 1850

Instructor(s): Bradley Boovy

Explores constructions of gender, race, class, sexuality, and nation in the animated films of Walt Disney; introduces concepts in film theory and criticism, and develops analyses of the politics of representation. Satisfies: HC BaccCore - Difference, Power, and Discrimination
WR 327H  Technical Writing  3 HC Credit(s)
CRN: 37581  Section 001  LEC  MWF 1000 - 1050
Instructor(s): Emily Elbom

Continued practice in writing with an emphasis on the rhetorical and critical thinking demands of writers in scientific and technological fields. PREREQ: WR 121/121H. Minimum of sophomore standing required. Satisfies: HC BaccCore - Writing II

WR 362H  Science Writing  3 HC Credit(s)
CRN: 39179  Section 001  LEC  MWF 1100 - 1150
Instructor(s): Ehren Pflugfelder

Students learn and practice the conventions for writing scientific material for a variety of audiences. Involves writing and research assignments, multimedia presentations, lecture, and in-class and online activities. PREREQ: WR 121/121H. Satisfies: HC BaccCore - Writing II