

<b>BA 161H</b>	<b>Innovation Nation - Awareness to Action</b>			2 HC Credit(s)
	<i>Register for REC section 019</i>			
CRN: 37955	Section 019	REC	F 0900 - 0950	Sandra Neubaum
	<b>AND choose one LEC section below:</b>			
CRN: 37946	Section 010	LEC	MW 1200 - 1250	Marcella Flores
CRN: 37949	Section 012	LEC	MW 1300 - 1350	Marcella Flores
CRN: 37953	Section 014	LEC	TTh 1200 - 1250	Amy Neuman
CRN: 38118	Section 016	LEC	TTh 1300 - 1350	Amy Neuman

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 students in the College of Business only. **Satisfies: HC Elective**

<b>BA 213H</b>	<b>Managerial Accounting</b>	4 HC Credit(s)
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CRN: 39152	Section 001	LEC	MW 1600 - 1750
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Instructor(s): Amy Bourne

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: Business Majors/Minors only. Minimum of sophomore standing required. **Satisfies: HC Elective**

<b>BA 230H</b>	<b>Legal Environment of Business</b>	4 HC Credit(s)
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CRN: 37555	Section 001	LEC	MW 1200 - 1350
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Instructor(s): Inara Scott

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: Business Majors/Minors only. Minimum of sophomore standing required. **Satisfies: HC Elective**

<b>BA 275H</b>	<b>Foundations of Statistical Inference</b>	4 HC Credit(s)
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CRN: 37557	Section 001	LEC	TTh 1600 - 1750
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Instructor(s): Xiaohui Chang

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 111 OR MTH 241 OR MTH 251/251H. RESTRICTIONS: Business Majors/Minors only. Minimum of sophomore standing required. **Satisfies: HC Elective**

<b>BA 352H</b>	<b>Managing Individual and Team Performance</b>	4 HC Credit(s)
CRN: 39612	Section 001 LEC TTh 1400 - 1550	
Instructor(s): Chad Murphy		
<p>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. <b>Honors students should register for section 001.</b> 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 or COMM 218/218H AND (WR 222 or WR 323 or WR 327 or WR 327H or HC 199). RESTRICTIONS: Business majors/minors only. Junior or senior class standing required. <b>Satisfies: HC Elective</b></p>		
<b>BA 357H</b>	<b>Operations Management</b>	4 HC Credit(s)
CRN: 39154	Section 001 LEC TTh 1200 - 1350	
Instructor(s): Gary Micheau		
<p>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. <b>Honors students should register for section 001.</b> 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. <b>Satisfies: HC Elective</b></p>		
<b>BA 360H</b>	<b>Introduction to Financial Management</b>	4 HC Credit(s)
CRN: 37966	Section 003 LEC TTh 1000 - 1150	
Instructor(s): Sean Yang		
<p>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. <b>Honors students should register for section 001.</b> 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 OR BA 315) AND (ECON 201/201H OR AREC 250/250H). RESTRICTIONS: Business Majors/Minors only. Junior or senior class standing required. <b>Satisfies: HC Elective</b></p>		
<b>BA 390H</b>	<b>Marketing</b>	4 HC Credit(s)
CRN: 39156	Section 001 LEC MW 1400 - 1550	
Instructor(s): Mark Van Order		
<p>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. <b>Honors students should register for section 001.</b> 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. <b>Satisfies: HC Elective</b></p>		

**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                      Nathan Kirk  
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: 40017                      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): Brian Wood

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): Adam Higgins

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
<b>OR</b>			
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
<b>AND</b>			
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
<b>AND</b>			
CRN: 35640	Section 010	STD	MW 1300 - 1350

Instructor(s): Skip Rochefort

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**

**CS 325H**                      **Analysis of Algorithms**                      4 HC Credit(s)

CRN: 37215                      Section 001                      LEC                      TTh 1200 - 1320

Instructor(s): Juli Schutfort

In this class, you will master algorithmic techniques such as dynamic programming and divide-and-conquer and learn how to argue that your algorithms are correct and fast. You will apply this knowledge to tackling problems from the International Collegiate Programming Contest. PREREQ: CS 261 AND (CS 225 OR MTH 231). RESTRICTIONS: Must be enrolled in pro-school in the College of Engineering. Not for Computer Science Double Degree students. **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**                      4 HC Credit(s)

*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 391H**                      **Engineering Economics and Project Management**                      3 HC Credit(s)

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*

CRN: 32736 Section 001 LEC MWF 1000 - 1050

CRN: 31128 Section 002 LEC TTh 800 - 920

CRN: 33892 Section 003 LEC TTh 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. 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 407**                      **How Your 'in' Group Influences You**                      2 HC Credit(s)

CRN: 39163                      Section 001                      SEM                      F 1000 - 1150

Instructor(s): Dan Arp

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**

**HC 407**                      **Race, White Supremacy, and the State of Oregon**                      2 HC Credit(s)

CRN: 39164                      Section 002                      SEM                      MW 900 - 950

Instructor(s): Eliza Barstow

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**

**HC 407**                      **God, Pain, and the Problem of Evil: An Introduction to C.S. Lewis**                      2 HC Credit(s)

CRN: 33710                      Section 003                      SEM                      M 1600 - 1750

Instructor(s): Gary Ferngren

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**

**HC 407**                      **Advancing Our Knowledge of Earth and Beyond: Satellite Missions**                      2 HC Credit(s)

CRN: 37564                      Section 004                      SEM                      Th 1200 - 1350

Instructor(s): Nancy Squires

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****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 Edmunson-Morton &amp; 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**

**HC 407****Sacred Places and Astronomy**

1 HC Credit(s)

CRN: 34887

Section 011

SEM

T 1000 - 1050

Instructor(s): Randall Milstein

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**

**HC 407****Science of Science Fiction**

1 HC Credit(s)

CRN: 34888

Section 012

SEM

Th 1000 - 1050

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 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 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**                      **Reimagining the City**                      2 HC Credit(s)

CRN: 39165                      Section 013                      SEM                      W 1200 - 1350

Instructor(s): Holly Campbell

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**

**HC 407**                      **Online Newsroom**                      2 HC Credit(s)

CRN: 37570                      Section 014                      SEM                      MW 1100 - 1150

Instructor(s): Thomas Strini

Students in the Online Newsroom colloquium will learn to write, edit, publish and distribute feature stories at The Corvallis Review ([www.corvallisreview.com](http://www.corvallisreview.com)). Students will learn the principles of journalism and will put them into practice: interview and research techniques, writing skills for clear and concise language, photo and video editing, skills with various online media platforms, basic Search Engine Optimization techniques, and how these skills transfer to marketing and advertising. Students in this class will write for a real-world online publication that has attracted over well over 100,000 page views. **Graded: P/N. Satisfies: HC Colloquia**

**HC 407**                      **Found Objects: Material Culture, Meaning, and Memory**                      2 HC Credit(s)

CRN: 39166                      Section 015                      SEM                      W 1000 - 1150

Instructor(s): John Campbell

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**



## HC 407 Last Year Experience 2 HC Credit(s)

CRN: 37049 Section 024 SEM W 1000 - 1150

Instructor(s): Don Johnson

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 2 HC Credit(s)

CRN: 38240 Section 025 SEM T 1200 - 1350

Instructor(s): Kelly McElroy & Korey Jackson

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 censored 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 Around the Ancient World in 10 Objects 2 HC Credit(s)

CRN: 39616 Section 027 SEM MF 1100 - 1150

Instructor(s): Peter Kelly

What is an ancient text and should we read it differently to a modern one? In each class we will examine one object or 'text' from the ancient world which challenges the notion of how we conceive of and interact with ancient literature. These objects extend both geographically and over time ranging from a Mesopotamian cylinder seal (2350 BCE) found in modern day Iraq, to a ninth century AD manuscript of Cicero's Aratea written in northern France. We will discuss the composition and function of these texts, as well as exploring their intended readership. Each object will present a unique set of challenges designed to question how our role as readers differs from that of their target audience. Key themes which will be explored include materiality and function, fragmentation and reconstruction. You will be presented with the task of recreating an ancient text based on a number of fragments. No prior knowledge of ancient literature is required. **Graded: P/N. Satisfies: HC Colloquia**

**HC 407**                      **Social Change: Strategies, Impact, Technology, and Solutions**                      2 HC Credit(s)  
**Journalism**

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)

Choose either the HC 407 section OR the ENSC 407H section

HC 407      CRN: 40019      Section 400      **Online**

ENSC 407H      CRN: 40196      Section 400      **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](http://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](http://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](http://honors.oregonstate.edu/thesis). **Graded: P/N. Satisfies: HC Thesis/Research/Projects**

## HC 409 Conversants 1 HC Credit(s)

CRN: 31335 Section 005 PRAC

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 Civic Engagement 1 HC Credit(s)

CRN: 35038 Section 007 PRAC

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

## HC 409 Professional & Career Development 1 HC Credit(s)

CRN: 40036 Section 008 PRAC W 1200 - 1350  
Meets weeks 1, 3, 5, 7, & 9

Instructor(s): Nathan Petitti & Susmita Padala

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**

**HST 299H / HC 299 The History Games**

2 HC Credit(s)

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

HC 299 CRN: 37561 Section 003 SEM MW 1000 - 1050

OR

HST 299H CRN: 37562 Section 001 SEM MW 1000 - 1050

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. HST 299H is crosslisted with HC 299 section 003. **Graded: P/N. Satisfies: HC Colloquia**

**HST/REL 324H Ancient Jewish History**

4 HC Credit(s)

*Choose either the HST 324H section OR the REL 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. HST 324H is crosslisted with REL 324H. **Satisfies: HC BaccCore - Cultural Diversity**

**HST/REL 425H Holocaust in its History**

4 HC Credit(s)

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

HST 425H CRN: 39618 Section 001 LEC TTh 1400 - 1550

OR

REL 425H CRN: 39620 Section 001 LEC TTh 1400 - 1550

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**

4 HC Credit(s)

CRN: 34889 Section 001 LEC MW 1600 - 1750

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/NSE 331H**      **Introductory Fluid Mechanics**      4 HC Credit(s)

*Choose either the ME 331H section OR the NSE 331H section*

ME 331H    CRN: 40133    Section 001    LEC    TR 1400 - 1550

**OR**

NSE 331H    CRN: 40248    Section 001    LEC    TR 1400 - 1550

Instructor(s): James Liburdy

Introduces the concepts and applications of fluid mechanics and dimensional analysis with an emphasis on fluid behavior, internal and external flows, analysis of engineering applications of incompressible pipe systems, and external aerodynamics. PREREQS: MTH 254/254H AND MTH 256/256H AND ENGR 212/212H AND (ENGR 311/311H or ME 311/311H or NSE 311/311H or NE 311/311H). ME 331H is for Manufacturing, Mechanical, & Industrial Engineering majors only. NSE 331H is for Nuclear Engineering majors only. Students must be enrolled in Pro-School. **Satisfies: HC Elective**

**ME 383H**      **Mechanical Component Design**      1 HC Credit(s)

CRN: 37574      Section 001      LEC      TTh 830 - 950

**AND**

CRN: 37575      Section 010      LAB      W 1000 - 1150

Instructor(s): Robert Paasch

Failure analysis and design of machine components. PREREQS: ME 316 AND ME 250. RESTRICTIONS: For Engineering Physics and Manufacturing, Mechanical, and Industrial 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**

**MTH 252H**      **Integral Calculus**      4 HC Credit(s)

*Choose one section*

CRN: 32366      Section 001      LEC      MWF 1000 - 1120      Staff TBA

CRN: 35801      Section 002      LEC      MF 1300-1350 & W 1200-1350      Staff TBA

CRN: 37126      Section 003      LEC      M 1400-1550 & WF 1400-1450      Staff TBA

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**      4 HC Credit(s)

CRN: 33894      Section 001      LEC      MW 1400-1450 & F 1400-1550

Instructor(s): Ren Guo

Vectors and geometry: coordinate systems, scalar product. Real-Valued Functions of Several Variables: partial and directional derivatives, gradient, extreme values. Multiple Integrals: change of coordinates, applications. Vector valued-functions: arc length and curvature of space curves, normal and tangential components of acceleration. PREREQ: MTH 252/252H. **Course Fee \$10. Satisfies: HC Elective**



**NSE/ME 331H**      **Introductory Fluid Mechanics**      4 HC Credit(s)

*Choose either the ME 331H section OR the NSE 331H section*

ME 331H    CRN: 40133    Section 001    LEC    TR 1400 - 1550

**OR**

NSE 331H    CRN: 40248    Section 001    LEC    TR 1400 - 1550

Instructor(s): James Liburdy

Introduces the concepts and applications of fluid mechanics and dimensional analysis with an emphasis on fluid behavior, internal and external flows, analysis of engineering applications of incompressible pipe systems, and external aerodynamics. PREREQS: MTH 254/254H AND MTH 256/256H AND ENGR 212/212H AND (ENGR 311/311H or ME 311/311H or NSE 311/311H or NE 311/311H). NSE 331H is for Nuclear Engineering majors only. ME 331H is for Manufacturing, Mechanical, & Industrial Engineering majors only. Students must be enrolled in Pro-School. **Satisfies: HC Elective**

**PAC 293H**      **Interdisciplinary Yoga: Mindfulness 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**

**PH 407H**                      **The Weird World of Quantum Mechanics**                      1 HC Credit(s)

CRN: 35937                      Section 001                      SEM                      F 1400 - 1450

Instructor(s): Albert Stetz

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**                      4 HC Credit(s)

*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**                      4 HC Credit(s)

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**                      4 HC Credit(s)

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 1400 - 1550

**OR**

REL 425H    CRN: 39620    Section 001    LEC    TTh 1400 - 1550

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    F 1000 - 1250

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**