ANTH 432H  Archeology of Domestication and Urbanization

CRN: 40190 Section 001 LEC  TR 0830 - 0950  3 HC Credit(s)

Instructor(s): Leah Minc

This course begins with one of the most debated and least understood revolutions in the history of our species: the adoption of farming and settled village life. Approximately 12,000 years ago, simple hunting and gathering populations (which account for 95% of our prehistory) switched to agriculture. This move in turn laid the foundation for the rise of urban centers by ca. 5500 years ago, followed shortly by the emergence of civilization - a world of hereditary kingship, monumental architecture, writing systems, state religion, specialized production, and economic interdependence. We will explore the various theoretical approaches to understanding these fundamental shifts in human societies and examine in detail these cultural developments in both the Old and New Worlds. Using a comparative method, we will examine how agro-urban societies and state-level organization emerged in Mesopotamia, Egypt, Asia, and the Americas. **Satisfies: Bacc Core - Science, Technology, and Society**

BA 390H  Marketing

CRN: 40004 Section 001 LEC  TR 1800 - 1950  4 HC Credit(s)

Instructor(s): Charles Toombs

Consumer and industrial markets, activities, and enterprises involved in distributing products to those markets. Objective is to develop an understanding of distribution processes, marketing problems, and marketing principles. PREREQ: ECON 201 OR AREC 250. **Satisfies: HC Elective**

BA 465H  Systems Thinking and Practice

CRN: 33940 Section 001 LEC  TR 1000 - 1150  4 HC Credit(s)

Instructor(s): Jonathan B. 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, the increasing relevance of emotional intelligences, and the realities of “Tools ‘R Us.” 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. Upper-division standing not required, students from all disciplines are welcome. **Satisfies: Bacc Core - Contemporary Global Issues**

BI 212H  Principles of Biology

CRN: 32915 Section 001 LEC  MWF 1300 – 1350  4 HC Credit(s)

AND

CRN: 32916 Section 010 LAB  M 1400 – 1650  Adam Chouinard

OR

CRN: 33945 Section 020 LAB  R 800 – 1050  Nathan Kirk

Instructor(s): Nathan Kirk & Adam Chouinard

Cell biology, organ systems, plant and animal biology. PREREQS: CH121 or CH201 or CH221 or CH224H or (CH231/231H AND (CH261/261H OR CH 271). For Life Science Majors and Pre-Professional students. **Course Fee $30.00**

**Satisfies: Bacc Core -Biological Sciences**
BI/Z 414H  Writing for the Biological Sciences

CRN: 37892  Section 001  SEM  TR 1600 - 1650  2 HC Credit(s)

Instructor(s): Eric Hill & Barbara Taylor

This is a writing intensive course that uses writing to learn the subject content. Students will hone critical thinking and technical writing skills necessary to create compelling and well-documented arguments in support of an original honors thesis. It provides additional support for students in the thesis process, guiding them in learning more about writing in the discipline as they research, draft, and revise the thesis. In the following term, BI/Z415H (1 credit) will continue the process as students complete their honors thesis. The successful completion of this course and BI/Z 415H in Spring satisfies WIC. Satisfies: HC Thesis/Research/Projects

BOT 407H  Ecology and Environmental Quality in the Himalaya

CRN: 39794  Section 001  SEM  T 1400 - 1550  1 HC Credit(s)

Weeks 1-5 Only

Instructor(s): Donald B. 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. This course meets for the first five weeks of the term only. Graded: P/N. Satisfies: HC Colloquia

CBEE 102H  Engineering Problem Solving and Computations

CRN: 35643  Section 001  LEC  MW 1500 - 1550  2 HC Credit(s)

AND

CRN: 35644  Section 010  LAB  TR 800 - 950

OR

CRN: 36643  Section 020  LAB  TR 1000 - 1150

Instructor(s): Greg Herman

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 section is common with non-honors with labs reserved only for honors students. 3 total OSU credits earned. PREREQ: MTH 112 or MTH 251/251H. Satisfies: HC Elective

CBEE 212H  Energy Balances

CRN: 36984  Section 001  LEC  MF 0800 - 0850  1 HC Credit(s)

AND

CRN: 36985  Section 010  REC  W 0800 - 0850

AND

CRN: 36986  Section 020  STUDIO  T 1300 - 1350

Instructor(s): Staff

Energy balances, thermophysical and thermochemical calculations. Lecture and recitation are common with non-honors with the studio reserved only for honors students. 3 total OSU credits earned. PREREQ: CBEE 211/211H & MTH 256/256H. MTH 256/256H can be taken concurrently. Satisfies: HC Elective
### CH 232H General Chemistry

**5 HC Credit(s)**

**CHOOSE ONE LECTURE AND ONE OF THE CORRESPONDING RECITATION SECTIONS**

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<th>CRN: 35662</th>
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**CHOOSE ONE OF THE CH 262H LABORATORY SECTIONS**

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Instructor(s): Michael Lerner & 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) AND (CH 261/261H or CH271 or CH221 or CH224H)**  **Course Fee: $30.00 Satisfies: Bacc Core - Physical Sciences**

### CH 362H Experimental Chemistry I

**3 HC Credit(s)**

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Instructor(s): Kevin Gable & Kristin Ziebart

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. **PREREQ: CH 361/361H and CH335. Major/Minor/Option Restrictions: Biochemistry & Biophysics and Chemistry. Must contact Chemistry department to register. Non-Refundable Course Fee $44.00. Satisfies: HC Elective**

### CH 462H Experimental Chemistry II

**3 HC Credit(s)**

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Instructor(s): Christine Pastorek & Michelle Dolgos

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. **PREREQ: CH 362/362H and CH 441 and (CH 324 or CH 461/461H). RECOMMENDED PREREQ: CH 422. Non-Refundable Course Fee $44.00. Satisfies: HC Elective**
CHE 332H  Transport Phenomena II

CRN: 37396  Section 001  LEC  TR 1200 - 1250  1 HC Credit(s)
Group Midterm T 1900-2020

AND

CRN: 37395  Section 010  STUDIO  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 section is common with non-honors with studio reserved only for honors students. 3 total OSU credits earned. PREREQ: CHE 331/331H & CHE 311. Satisfies: HC Elective

CS 325H  Analysis of Algorithms

CRN: 40544  Section 002  LEC  MWF 1300 - 1350  4 HC Credit(s)

Instructor(s): Julianne 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. Satisfies: HC Elective.

DHE/WSE 415H  Renewable Materials in the Modern Age

CRN: 37895  Section 001  LEC  M 900 - 950  3 HC Credit(s)
AND
CRN: 37897  Section 010  LAB  M 1000 - 1150
AND
CRN: 37899  Section 020  STUDIO  W 1000 - 1150

Instructor(s): Sara C Robinson & Eric Hinsch
This course is designed to bridge the information gap in wood design fields between artists, designers, architects, engineers, and scientists by delivering information on the anatomy of renewable materials in an accessible, cross-disciplinary format. Those with a background in wood science and those merely interested in renewable materials will find this course useful. Throughout the course, students will develop a fundamental understanding of the properties, characteristics, and role of wood and other renewable materials in today’s society, along with their importance in sustainable consumerism and the global wood trade. This course will culminate with a design project in which the knowledge gained, combined with the unique background of each student, will be applied to a final project. Class instruction will combine lecture, laboratory and studio time, as well as situational learning experiences. With the smaller size of the HC classes, more time can be spent on the hands-on portion of the class, including greater access to the woodshop, materials, and instructor time. Course Fee $80.00 Satisfies: Bacc Core - Science, Technology, and Society
ENG 221H  African-American Literature

CRN: 40201  Section 001  LEC  TR 1200 - 1320  4 HC Credit(s)

Instructor(s): Elizabeth Sheehan

This course introduces students to African American literature beginning with 18th century poetry and slave narratives and concluding with contemporary poetry, short stories, and creative non-fiction. Along the way, we will study key black cultural and political movements in and beyond the U.S., including the Harlem Renaissance and the Black Arts Movement, and we will read the work of influential black writers including Frederick Douglass, Harriet Jacobs, W.E.B. Du Bois, Zora Neale Hurston, Langston Hughes, Malcolm X, James Baldwin, Audre Lorde, Toni Morrison, Claudia Rankine, and Ta-Nehisi Coates (who will visit OSU this February). Throughout the term, we will keep in view how the creation and reception of art relates to struggles for justice, including current antiracist and abolition movements. **Satisfies: Bacc Core - Literature and the Arts**

ENG 275H  The Bible as Literature: "The Gospels as Creative Writing"

CRN: 34899  Section 001  LEC  MWF 1000 - 1050  4 HC Credit(s)

Instructor(s): Chris Anderson

In this class we’ll try to set aside everything else and look closely at the language and style of the Book of Genesis as if we are reading any other story, the work of any other creative writer: the narrative arcs, the development of character, what the stories say and what they don’t. Students will be asked to do essays, pop quizzes, and in-class freewriting. Our emphasis will be on ways of reading--on kinds of truth and methods of interpretation. **Satisfies: Bacc Core - Literature and the Arts or Western Culture.**

ENGR 201H  Electrical Fundamentals I

CRN: 36987  Section 001  LEC  TR 1400 - 1450  3 HC Credit(s)

AND

CRN: 36988  Section 010  LAB  R 800 – 950

Instructor(s): Matthew Johnston


ENGR 212H  Dynamics

CRN: 39140  Section 001  LEC  MWF 900 - 950  3 HC Credit(s)

Instructor(s): Ravi Balasubramanian

Analysis of forces induced in structures and machines by various types of loading. **PREREQ: ENGR211/211H and PH211/211H. Satisfies: HC Elective**
ENGR 363H Energy Matters

CRN: 39141  Section 001  LEC  TR 800 - 920  3 HC Credit(s)

Instructor(s): Jack Higginbotham

This course establishes a basic energy vocabulary, applies the fundamental concepts of identifying energy use and determining efficiency, and studies the implications of energy decisions in the context of traditional, alternative, and sustainable energy resources. RECOMMENDED PREREQ: MTH 112 or higher. Satisfies: Bacc Core - Science, Technology, and Society

ES 355H Race, Space, Difference

CRN: 40278  Section 001  LEC  TR 1400- 1550  4 HC Credit(s)

Instructor(s): Juan Herrera

A hands-on approach to exploring how we make space, and why geography is always infused with markers of social identity and exercises of power. Will practice "reading" space and landscapes, and learn how notions of race and other forms of "difference" shape space (and vice versa) to produce experiences of inclusion, exclusion, cooperation, and conflict. Satisfies: Bacc Core - Difference, Power, Discrimination

H 100H Introduction to Public Health

CRN: 36989  Section 001  LEC  TR 1000 - 1150  4 HC Credit(s)

Instructor(s): Viktor E Bovbjerg

This survey course covers the basic elements of public health and application of public health action, along with related complex ethical and political issues. Topics range from infectious disease outbreaks and control, to the role of diet and physical activity in chronic disease, to the intersection of emergency services and preparedness with public health. The Honors section focuses on experiential and tailored learning: several sessions will be in the field—at work sites, businesses, public health agencies, and natural environments. A major element of the course is a student-directed exploration of a public health topic of interest to each student. Course Fee: $9.00 Satisfies: HC Elective

HC 199 Honors Writing

CRN: 33319  Section 001  LEC  MWF 1000 - 1050  3 HC Credit(s)

OR

CRN: 31329  Section 002  LEC  TR 800 – 920

OR

CRN: 34900  Section 004  LEC  TR 1000 - 1120

Instructor(s): Eric Hill

Becoming a critical reader and thinker promotes clear writing and verbal communication. You will hone your skills in a discussion/debate format, along with frequent in-class writing assignments and presentations. You will also further develop your abilities to be a critical reader. We will be examining texts from many disciplines and on a variety of topics; you will also bring in examples for discussion. The research paper, which includes both formal documents and informal writing, will focus on an ethical/controversial issue or current research within your discipline; this will include field and library research. Satisfies: HC Bacc Core Writing II
HC 299  Building Homes & Hope: International Service Learning

CRN: 36322  Section 001  SEM  T 1600 - 1650  1 HC Credit(s)

Instructor(s): David Kovac

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

HC 299  Experience Music Project Trip

CRN: 38455  Section 002  SEM  F 1600 - 1650  1 HC Credit(s)

Instructor(s): Ryan Biesack

This unique colloquium combines some preparatory reading, listening, and discussion, and culminates in a trip to the Experience Music Project Museum 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 EMP houses both phenomenal collections. The course requires attendance at an organizational meeting Friday 1/27/17, a three day field trip 2/3/17-2/5/17, and one discussion meeting 2/10/17. The course has a $161 course fee which covers lodging, two breakfasts, transportation, and entrance into the EMP 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 $161.00**

Graded: P/N. **Satisfies: HC Colloquia**

HC 299  Design and Technology for the Senior Tsunami

CRN: 39142  Section 003  SEM  T 1400 - 1550  2 HC Credit(s)

Instructor(s): Kate Hunter-Zawoski, Bill Smart, & Carolyn Aldwin

A major objective of the seminar is to increase students’ awareness of the impact on society of the aging population. The seminar will explore the many aspects of human centered design and technology and will involve faculty from the colleges of Liberal Arts, Business, Engineering and Public Health and Human Science, as well as collaborators at Oregon Health and Sciences University. The seminar on “Design and Technology for the Senior Tsunami” will introduce students from very diverse backgrounds to the design and technologies as they relate to capabilities and accessibility. Students will also be exposed to the impact of assistive technologies such as robotics on maintaining independence and a high quality of life for seniors and people with disabilities. The readings for this course will give the students an introduction to human centered design and new technologies for an aging society. Students will gain an increased understanding of the diversity of career and allied health professional opportunities resulting from the Senior Tsunami. The seminar is also designed to introduce students to Honors projects/thesis that can be supported by OSU faculty. **Graded: P/N. Satisfies: HC Colloquia**
HC 407  Sing a Song of Science

CRN: 37901  Section 001  SEM  T 1500 - 1550  1 HC Credit(s)

Instructor(s): Kevin Ahern

This course shows students the musical side of scientific information and teaches them how to marry creative lyrics to melodies. Building on Dr. Ahern's popular Metabolic Melodies, the one credit course combines a fun look at scientific discovery with practical skills for writing lyrics, limericks, and poetry based on scientific lingo. Graded: P/N. Satisfies: HC Colloquia

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

CRN: 34631  Section 003  SEM  M 1600 - 1750  2 HC Credit(s)

Instructor(s): Gary Ferngren

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

HC 407  Life - The Biosphere Through Space and Time

CRN: 37903  Section 004  SEM  T 1000 - 1150  2 HC Credit(s)

Instructor(s): Stephen D Atkinson

Welcome to an interdisciplinary journey to explore our understanding of life! What is it? Where does it come from? How do we classify it? You will gain an enhanced appreciation for the astonishing complexity of Earth's biosphere, at its many spatial and temporal scales. Learning units will cover aspects of biology, ecology, parasitology, geology, astronomy and how these filter into pop culture through the news media, science fiction and other genres. This colloquium should satisfy anyone who is curious about the living world in and around them. This will be a hybrid learning experience, requiring both online and face-to-face participation. Prior to most classes, participants are expected to complete an online learning activity (e.g. watch a video, read a paper, visit a website) and complete a quiz. We will meet face-to-face for a single, one hour fifty-minute session each week. Typical class time will involve a 20-30 minute seminar on the weekly topic (some delivered by guest speakers), student presentations, group discussions and hands-on activities, with an emphasis on sketching/illustration in your class journal. Be prepared to brainstorm concepts and work both in small groups and independently. At least two weeks will include tours of labs on campus or nature walk scavenger-hunt activities. Students with non-science backgrounds are most welcome. Assessment will be through bi-weekly online quizzes and creative assignments that include: short oral presentations, illustrations in your class journal and an individual art project. There will be no mid- or final- exams. Satisfies: HC Colloquia

HC 407  Energy IQ: Energy Literacy Past, Present, and Future

CRN: 34901  Section 005  SEM  TR 1600-1650  2 HC Credit(s)

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    Science Journal Club

CRN: 35646   Section 006   SEM   TR 1600 - 1650      2 HC Credit(s)

Instructor(s): Christopher Mathews

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

HC 407    Folly’s Mirror: The Power and Reach of Contemporary Satire

CRN: 39813   Section 007   SEM   R 1200 - 1350      2 HC Credit(s)

Instructor(s): Robert J. Drummond

Against the assault of laughter nothing can stand. —Mark Twain. College students are increasingly turning to satirical news outlets—from The Daily Show to The Onion to SNL’s Weekend Update—not just for laughs, but as a primary source for political news and analysis. In this course, we’ll examine this phenomenon, using these popular media outlets as a springboard to understanding how satire works and what makes it so effective. What knowledge is required to grasp the humor, and how does that amplify 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 says 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, from Sasha Baron Cohen to Stephen Colbert to Samantha Bee. Graded: P/N. Satisfies: HC Colloquia

HC 407    Sacred Places: Links to Ancient Astronomy

CRN: 36323   Section 011   SEM   T 1000 - 1050      1 HC Credit(s)

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 astronomers? Rome, Mecca, Rapa Nui, Mt. Fuji: Why are these loci for our curiosity and philosophical attention? This colloquium is not a survey of competing spiritual philosophies, but a discussion of what makes such sacred sites significant historically, scientifically, and culturally. Graded: P/N. Satisfies: HC Colloquia
HC 407  The Science of Science Fiction

CRN: 36324  Section 012  SEM  R 1000 - 1050  1 HC Credit(s)

Instructor(s): Randall Milstein

The good, the bad, the inventive, and the absolutely awful examples of "science" portrayed in science fiction films, television shows, comic books, and literature. Aliens, light sabers, space battles, gravity drives, warp speed, laser beams, star gates, and worm holes; what's real, what's a possibility, what's speculation, and what's just pure impossible? We will be reading, viewing, and discussing 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. Graded: P/N. Satisfies: HC Colloquia

HC 407  Commodities to Cafes

CRN: 36990  Section 016  SEM  W 1400 - 1650  2 HC Credit(s)

Instructor(s): James Sterns

This course will challenge students to integrate economic, social, cultural, technical and political perspectives as we seek to understand the “who, what and how” of our food supply. Class periods at the beginning and end of the term will be spent in discussion-based sessions on campus (typically preparing for or de-briefing site visits and/or discussing underlying issues related to those visits). The majority of the class periods will involve site visits and activities off-campus where students will visit farms, agricultural processing facilities and other agencies involved in the region’s food system. Visits will be interactive, allowing students to engage in conversations with producers and processors about such issues as sustainability, animal welfare, GMO technologies and food quality. On-farm visits, food tastings, tours of food processing and agricultural input supplier facilities, conversations with farmers, plant scientists and food marketers - all for the purpose of gaining a greater understanding of agriculture, food and you. In addition to site visits, students will have opportunities to discuss, debate, contemplate and grapple with the complexities and interdependencies of our local, regional, national and global agricultural and food systems. Course Fee $62.00 Satisfies: HC Colloquia

HC 407  Writing About Music

CRN: 37358  Section 018  SEM  MW 1200 - 1250  2 HC Credit(s)

Instructor(s): Eric Hill

This class will focus on how we attempt to use words to discuss something that works outside of language. Does music defy description? Is it possible to employ concrete terms for something that, for many, remains abstract and/or subjective? Is “writing about music like dancing about architecture”? You will be asked to examine and respond to music and texts about music. Through in-class discussions, presentations, and assignments, you will discuss what you see as the values and limitations of these texts, as well as how they compare with your own written attempts to react to music. Much of the material you will be listening to and writing about will come from pieces that you bring in (some of it will be music that I subject you to). You will be writing about music through various forms of expression (description, review, analysis), explaining not only the characteristics of the music but also how context can affect your experience (live versus recorded, instrumental versus lyrics, visual components, etc). You are not required to play an instrument or to know music theory, but we will go over some theoretical terms that may provide you with some basic vocabulary. Graded: P/N. Satisfies: HC Colloquia
During the summer of 2016, France struggled with whether or not to allow women to wear full-coverage burqinis while visiting public beaches. While some cities banned the attire—saying that the clothing encroached upon the secular nature of a public space—the country’s highest court said that the bans were a violation of Muslim women’s personal freedom. While the burquini has not (yet!) been a subject of major debate in the United States, myriad other religious practices issues have received similar attention in the United States. In this class, then, we will study the delicate balance that the United States seeks to ensure between the protection of religious expression and the protection of the public good. In thinking about this question, we will need to consider what Americans have historically meant by the term “religion,” and we will also have to consider what the American public—as well as the higher courts—have to say about the limits of personal freedoms. We will explore these tensions by looking at issues of attire, diet, the use of illicit substances, marriage, sound, public transportation, and medical treatment. To better understand these issues, we will look at five groups of people who practice religions that that have historically been outside of the religious mainstream in the United States: the Latter Day Saints (Mormons), Haitian Vodou practitioners, ultra-Orthodox Jews, Muslims, and Hmong immigrants. For assessment, you will take regular reading quizzes, take turns preparing reading questions, and prepare a 15-minute presentation for the class. Graded: P/N. Satisfies: HC Colloquia
HC 407  Closing the Gap – Where Science Meets the Media

CRN: 39143  Section 023  SEM  T 1000 - 1050  1 HC Credit(s)

Instructor(s): Diana C Rohlman

There is a growing gap between what scientists say and what the public believes. While 88% of scientists believe genetically-modified foods are generally safe to eat, only 37% of the general public believes the same. Why don’t we believe our scientists? Is it because media gets the science wrong? Or is it because scientists do a poor job of explaining the science? In this class, students will evaluate various information sources and explore common misconceptions that have arisen due to poor science communication. Students will develop their ability to effectively communicate science through written and verbal mediums with various hands-on activities, improvisational techniques, and written exercises. This is a discussion-based class, using current examples of science communication (articles, blogs, videos) to structure discussions. Satisfies: HC Colloquia

HC 407  Last Year Experience

CRN: 40186  Section 024  SEM  F 1000 - 1150  2 HC Credit(s)

Instructor(s): Don Johnson

The Last Year Experience is intended to provide you with skills and knowledge that will enhance your level of success after college. The class follows two parallel themes: What do I need to know as I prepare for life after college, and what do I need to know about myself as I prepare to flourish in this world? Areas investigated will be: Career – The search process, interviewing, resumes, negotiation and entering the career world; Alternatives to the first year out of college; Personal Finance, college loan repayment, investing and giving back; Identity – Defining self and skills; Creating a digital portfolio; Conversations with OSU Alumni. Graded: P/N. Satisfies: HC Colloquia

HC 407  Total Solar Eclipse: Event of the Century

CRN: 39146  Section 025  SEM  MW 1200 - 1250  2 HC Credit(s)

Instructor(s): Nancy Squires

A total eclipse of the sun will always remain among the most impressive of naturally occurring events. When and why do solar eclipses occur? The alignment of the earth, moon and sun do not happen randomly. On 17 August 2017, the first total solar eclipse since 1991 (which was seen only from part of Hawaii) will be visible from OSU. During the eclipse, solar prominences can be examined, yielding much scientific data about our sun. This course will take a look at the celestial mechanics of how an eclipse occurs from a historical and scientific perspective. Current research techniques on topics related to the sun and our solar system will be discussed. This course will be particularly relevant, since Corvallis will be in the eclipse path during the total solar eclipse on 17 August 2017. Students will participate in the design of a high-altitude weather balloon that will carry high-resolution cameras to photographically record the eclipse shadow, and will collaborate with students from other universities involved in this project. A field trip to the Pine Mountain Observatory is planned. Satisfies: HC Colloquia

HC 407  Leadership and Positive Psychology

CRN: 40187  Section 026  SEM  W 1000 - 1150  2 HC Credit(s)

Instructor(s): Don Johnson

This seminar will examine the relationships between leadership and positive psychology using Seligman’s PERMA theory as a contextual base for examining “action orientated leadership” and “visionary orientated leadership.” Students will compare and contrast the differences between the two forms of leadership. Students will learn about the foundations of Seligman’s PERMA Theory on Positive Psychology/Well Being, and how this theory can serve as a baseline for leading groups through visionary leadership design. Graded: P/N. Satisfies: HC Colloquia
HC 407  John Steinbeck’s Pacific

CRN: 40188  Section 028  SEM  R 1500 - 1550  1 HC Credit(s)

Instructor(s): Holly Campbell
Throughout this course, we will examine *The Log from the Sea of Cortez*, the book chronicling the voyage of John Steinbeck and Ed Ricketts to collect marine fauna in the Gulf of California. The course will employ interdisciplinary lectures, discussions, group and individual research, guest lectures and film to explore the work’s rich context in terms of coastal marine science and investigation, politics (U.S. and natural resource), history and natural history, friendship, philosophy, ethics, and navigation. The class will culminate in a discussion of the literal and figurative meanings of terms such as expedition, voyage, and discovery, their relevance to contemporary society, and how we may interpret these terms within our lives both as individuals and communities confronted with a changing environment.  **Satisfies: HC Colloquia**

HC 407  Connecting the Arts and Sciences: A Short Exploration

CRN: 40194  Section 029  SEM  W 800 - 950  2 HC Credit(s)

Instructor(s): Joseph Krause
This colloquium is designed for students wishing to better understand the affinity between the arts and the sciences. Open to all students, regardless of academic orientation, it should be of particular interest to those who might ask themselves any of following questions: How did anyone manage before the invention of the computer and the cell phone? How did people see and construct the world before the digital revolution, before television and radio, before photography and cinema? And what was the impact of those new technologies on different generations of writers, artists and scientists? If today we marvel at the technology that surrounds us, was there not a similar sense of wonder and progress in the 19th and 20th centuries? **Graded: P/N. Satisfies: HC Colloquia**

HC 408  Workshop THESIS: LEARN

CRN: 34632  Section 001  WS  R 1700 - 1850  1 HC Credit(s)

Meets weeks 2, 4, & 8 only

Instructor(s): HC Academic Advisor, Indira Rajagopal, & Kevin Ahern
In this course you will learn to lay the groundwork for a successful thesis experience. We will focus on the value of the thesis, what it takes to successfully complete a thesis (e.g. identify a mentor, identify a topic, level of effort required, etc.), and we’ll hear from students and faculty with experience in the thesis process. You will complete all of the tasks related to stage 2 of the TheSIS process by: 1) Summarizing an interview/conversation with a faculty member who could serve as a mentor, 2) Summarizing an interview/conversation with an Honors student currently working on their thesis, and 3) Exploring a series of resources and opportunities available to successfully complete the thesis. The Undertake module of the TheSIS is then designed to move students through the steps required to complete a signed thesis proposal and pose some additional questions relevant to this stage of their experience. Course will be team taught.  **Meets weeks 2, 4, 8 only.** **PREREQ: Prior completion of TheSIS stages: START as outlined at honors.oregonstate.edu/thesis. Graded: P/N. Satisfies: HC Thesis/Research/Projects**
**HC 408**  Workshop THESIS: UNDERTAKE

CRN: 38911  Section 004  WS  R 1700 - 1850  1 HC Credit(s)

Meets Weeks 2 & 6 Only

Instructor(s): Staff

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

**HC 408**  Workshop THESIS: GRADUATE

CRN: 37379  Section 003  WS  F 1400 - 1550  1 HC Credit(s)

Meets Weeks 2, 4, & 6 only

Instructor(s): Tara Williams

This course will guide students through the final stage of the Thesis Success in Stages (TheSIS) process, GRADUATE. The goals of Thesis: GRADUATE are the completion of a thesis draft, the preparation for the thesis defense and the design of a thesis poster. Students need to have completed their research and be prepared to begin writing the thesis draft. This course meets just three times throughout the term. PREREQ: Prior completion of TheSIS stages - START, LEARN, and UNDERTAKE as outlined at honors.oregonstate.edu/thesis. Meets Weeks 2, 4, & 6 only. **Graded: P/N. Satisfies: HC Thesis/Research/Projects**

**HC 409**  Conversants

CRN: 31613  Section 005  PRAC  TBD -  1 HC Credit(s)

Instructor(s): Leanna Dillon

The INTO OSU Cultural Ambassador Conversant Program provides an opportunity for honors students to earn credit while participating in a mutual cultural exchange. Participating honors students commit to meeting on average one hour per week with their international partner, keep a log of the times and places they met and the topics discussed, and complete a 2 page reflections paper due at the end of the term. Program information including the application process, is available at http://oregonstate.edu/international/cultural-ambassador. Students must meet with a 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

CRN: 36560  Section 007  PRAC  TBD -  1 HC Credit(s)

Instructor(s): Leanna Dillon

The Center for Civic Engagement provides an opportunity for honors students to earn credit while participating in an ongoing community engagement project within the local community. Participating honors students commit to serving on average 2-3 hours per week within their project site, keep track of their service hours, and complete a 2 page reflection paper due at the end of the term. Additional information, including placement opportunities, is available at: http://oregonstate.edu/cce/ongoing. Students must meet with a 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**
HST 365H  The Civil Rights Movement in the Modern U.S.  
CRN: 40318  Section 001  LEC  MW 1200 - 1350  4 HC Credit(s)  
Instructor(s): Marisa Chappell  
An exploration of the "long civil rights movement" among African Americans and their allies during the 20th century United States, with attention to the structure of racial inequality, movement philosophies and strategies, white allies and opponents, relationships to other freedom movements, and the movement’s legacies.  Satisfies: HC Bacc Core Difference, Power, and Discrimination

HSTS 440H  History of Psychotherapy  
CRN: 35651  Section 001  LEC  MW 1000 - 1150  4 HC Credit(s)  
Instructor(s): Mina Carson  
The history of psychotherapy in modern Western societies, from biomedical, cultural, political, and psychosocial perspectives.  Satisfies: Bacc Core Science, Technology, and Society

MB 299H  Microbes in the Media  
CRN: 37905  Section 001  LEC  R 1500 - 1550  1 HC Credit(s)  
Instructor(s): Linda Bruslind  
This course offers an in-depth look at how microbes (bacteria, viruses, fungi, etc) are covered by various types of media and the impact on public perception. What type of information is the public getting and in what context? How has it changed over time and with different types of media?  Satisfies: HC Colloquia

ME 317H  Intermediate Dynamics  
CRN: 36326  Section 001  LEC  MW 1600 - 1750  4 HC Credit(s)  
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.  Major/Minor/Option Restrictions: ECE, ME, & NE. Students must be enrolled in Pro-School.  Satisfies: HC Elective

ME 331H  Introductory Fluid Mechanics  
CRN: 39149  Section 001  LEC  TR 1200 - 1350  4 HC Credit(s)  
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).  Major/Minor/Option Restrictions: MFGE, ME, IE, & NE. Students must be enrolled in Pro-School.  Satisfies: HC Elective
ME 422H  Mechanical Vibrations

CRN: 39814  Section 001  LEC  MW 1000 - 1150  4 HC Credit(s)

Instructor(s): Nancy Squires

This is a senior elective in mechanical engineering. This course will discuss the dynamic response of single and multiple degree-of-freedom systems. Applications will include vibration absorbers, flow and propulsion induced vibration, aero elasticity, acoustics and structural vibrations. Current research areas in vibrations will be discussed. PREREQS: ME 317/317H. Students must be enrolled in Pro-School. **Satisfies: HC Elective**

ME 452H  Thermal and Fluid Sciences

CRN: 39150  Section 001  LEC  TR 1000 - 1050

AND

CRN: 39151  Section 010  LAB  F 900 – 1150  1 HC Credit(s)

Instructor(s): Joshua Gess

Course emphasis is on experiments related to thermodynamics, heat transfer, and fluid mechanics. Proper experimental methods, data and uncertainty analysis related to thermal and fluids measurements are discussed. Lecture is common with non-honors with the lab reserved for honors students only. 4 total OSU credits earned. PREREQS: ME 311/311H AND ME 331/331H AND ME 332/332H. Students must be enrolled in Pro-School. **Satisfies: HC Elective**

MTH 252H  Integral Calculus

CRN: 32892  Section 001  LEC  MWF 1000 - 1120  Scott Peterson

OR

CRN: 37664  Section 002  LEC  MF 1300-1350 & W 1200-1350  Felix Maisch

OR

CRN: 40351  Section 003  LEC  M 1400 - 1550 & WF 1400 - 1450  Felix Maisch

Instructor(s): Scott Peterson or Felix Maisch

The integral is the second big idea in calculus. In the same way that the derivative measures rate of change, the integral measures net change. Applications in physics, engineering and geometry are numerous. PREREQ: MTH 251/251H. **Course Fee $10.00 Satisfies: HC Elective**

MTH 254H  Vector Calculus I

CRN: 34902  Section 001  LEC  MW 1400-1450 & F 1400-1550  4 HC Credit(s)

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 $10.00 Satisfies: HC Elective**
MTH 255H  Vector Calculus II

CRN: 34633  Section 001  LEC  MW 1000 – 1050 & F 1000 - 1150  4 HC Credit(s)

Instructor(s): Juan Restrepo

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 $10.00  Satisfies: HC Elective

MTH 256H  Applied Differential Equations

CRN: 32893  Section 001  LEC  MWF 1300 - 1350  4 HC Credit(s)
D. Finch

CRN: 37390  Section 010  REC  W 1200 - 1250  4 HC Credit(s)
D. Finch

OR

CRN: 39152  Section 002  LEC  MWF 1400 - 1450  4 HC Credit(s)
N. Gibson

CRN: 40413  Section 003  REC  W 1500 - 1550  4 HC Credit(s)
N. Gibson

Instructor(s): David Finch or Nathan Gibson

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: 32923  Section 001  LEC  MWF 1000 - 1120  4 HC Credit(s)

Instructor(s): Bill Bogley

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. PREREQS: MTH 252/252H. RECOMMENDED PREREQ: MTH 254/254H. Satisfies: HC Elective

PH 222H  Recitation for Physics 212

CRN: 33665  Section 001  REC  T 1100 - 1150  1 HC Credit(s)

Instructor(s): Guenter Schneider

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. Satisfies: HC Bacc Core Physical Sciences

PH 223H  Recitation for Physics 213

CRN: 33664  Section 001  REC  R 1100 - 1150  1 HC Credit(s)

Instructor(s): David McIntyre

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. Satisfies: HC Bacc Core Physical Sciences
PH 407H  Weird World of Quantum Mechanics

CRN: 37909  Section 001  SEM  F 1400 - 1450  1 HC Credit(s)

Instructor(s): Albert W. Stetz

This is a course on quantum mechanics designed for students who have never had and may never have a regular course in quantum mechanics with the Physics Department. The treatment is mostly qualitative with a minimum of mathematics. The emphasis is on phenomena that are "weird," in the sense of being wildly at odds with common sense. One example out of many is the famous Schrödinger's cat. The rules of quantum mechanics seem to imply that you can kill the cat by looking at it. These things have fascinating philosophical implications which we will discuss as the course proceeds. **Satisfies: HC Colloquia**

PHL/REL 160H  Quests for Meaning: World Religions

CRN: 39154  Section 001  LEC  MW 1400 - 1540  4 HC Credit(s)

Instructor(s): Geoff 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. **Satisfies: HC Bacc Core Cultural Diversity**

REL/PHL 160H  Quests for Meaning: World Religions

CRN: 39155  Section 001  LEC  MW 1400 - 1540  4 HC Credit(s)

Instructor(s): Geoff Barstow

See PHL 160H for Course Information. **Satisfies: HC Bacc Core Cultural Diversity**

WGSS 223H  Women: Self and Society

CRN: 40277  Section 001  LEC  T 1600 - 1850  3 HC Credit(s)

Instructor(s): Liddy Detar

Multidisciplinary introduction to women, gender, and sexuality studies. Focuses on the lives and status of women in society and explores ways institutions such as family, work, media, law and religion affect different groups of women. Explores issues of gender, race, class, age, sexual orientation, size and ability. Introduction to the Historical production of feminist theory and activism and current conversations within the academic field of Women, Gender, and Sexuality Studies. **Satisfies: HC Bacc Core Difference, Power, Discrimination; Social Processes and Institutions**

WSE/DHE 415H  Renewable Materials in the Modern Age

CRN: 37896  Section 001  LEC  M 900 - 950  3 HC Credit(s)

AND

CRN: 37898  Section 010  LAB  M 1000 - 1150

AND

CRN: 37900  Section 020  STUDIO  W 1000 - 1150

Instructor(s): Sara C Robinson & Eric Hinsch

See DHE 415H for Course Information. **Course Fee $80.00 Satisfies: HC Bacc Core Science, Technology and Society**
Z/BI 414H Writing for the Biological Sciences

CRN: 37911  Section 001  SEM  TR 1600 - 1650  2 HC Credit(s)

Instructor(s): Eric Hill & Barbara Taylor
See BI 414H for Course Information. Satisfies: HC Thesis/Research/Projects