

**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 &amp; Group Midterm 1900-2020 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 &amp; 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 &amp; 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**

CRN: 35662      Section 001      LEC      MWF 1200 - 1250

AND

CRN: 35839      Section 010      REC      T 1500 - 1550

OR

CRN: 35840      Section 011      REC      R 1400 – 1450

**CHOOSE ONE OF THE CH 262H LABORATORY SECTIONS**

CRN: 35663      Section 010      LAB      T 1200 - 1450

OR

CRN: 35664      Section 011      LAB      R 1500 - 1750

Instructor(s): Michael Lerner &amp; 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)

CRN: 32886      Section 001      LEC      T 1200 - 1250

AND

CRN: 32887      Section 010      LAB      T 1300 – 1550 &amp; R 1200-1550

OR

CRN: 32888      Section 002      LEC      W 1200 - 1250

AND

CRN: 32889      Section 020      LAB      W 1300-1550 &amp; F 1200-1550

Instructor(s): Kevin Gable &amp; 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**

CRN: 32890      Section 001      LEC      W 1300 - 1350

AND

CRN: 32891      Section 010      LAB      W 1400-1650 &amp; F 1300-1650

3 HC Credit(s)

Instructor(s): Christine Pastorek &amp; 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)
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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

Analysis of linear circuits. Circuit laws and theorems. DC responses of circuits. Operational amplifier characteristics and applications. PREREQ: MTH 251/251H & MTH 252/252H. **Satisfies: HC Elective**

**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)

**Class Meets 1/27/17 & 2/10/17  
& Required Trip 2/3/17 – 2/5/17**

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**

**HC 407 American Religions and American Freedom**

CRN: 40185 Section 019 SEM MW 1000 - 1050 2 HC Credit(s)

Instructor(s): Eliza Barstow

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 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 Publishing Underground: A History of Publishing Technology and Radical Reform**

CRN: 38607 Section 020 SEM R 1200 - 1350 2 HC Credit(s)

Instructor(s): Kelly McElroy &amp; Korey Jackson

From punk counterculture and zines to #blacklivesmatter and Twitter, from anti-lynching activism and pamphleteering in the U.S. to Soviet era dissident literature in the form of handmade books--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. **Graded: P/N. Satisfies: HC Colloquia**

**HC 407 Mental Disability and Wellbeing in America: Emerging Dilemmas**

CRN: 39144 Section 022 SEM M 1400 - 1550 2 HC Credit(s)

Instructor(s): Ray Tricker

This course will provide students with opportunities to study the evolving relationships that have evolved between the pharmaceutical industry, the medical profession in psychiatry, the National Alliance for Mental Illness (NAMI), the National Institutes for Mental Health (NIMH), and the mentally disabled, over the past decades, since the advent of deinstitutionalization in the United States. Important questions need to be asked regarding the significant rise in prevalence of mental disorders such as depression, bipolar disorder, anxiety disorders, ADHD, and the diagnosis of mental disorders in the young. Is the significant increase and increased prevalence of mental disorders a result of improved diagnosis and improvements as described in the DSM V, or are other important contributing factors/issues that being disregarded, that have contributed to epidemic rises in mental illness? Furthermore, evidence of this increase is reflected in significant increase in SSI and SSDI claims; sources that underscore the rise in diagnosed mental disorders in the United States. **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, &amp; 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](http://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](http://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](http://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)
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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	4 HC Credit(s) 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)
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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)
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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)
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AND

CRN: 37390	Section 010	REC	W 1200 - 1250	D. Finch
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OR

CRN: 39152	Section 002	LEC	MWF 1400 - 1450	D. Finch
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AND

CRN: 40413	Section 003	REC	W 1500 - 1550	N. Gibson
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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)
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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)
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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)
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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 Schrodinger'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**