

**ANTH 407H      Thinking Critically: Professional Skills for Global Citizens**

CRN:                      Section: 010                      M 1600-1820                      STAG 233                      I UHC Credit  
**Meets weeks 2-7 only**

Instructor: Sunil Khanna

This innovative colloquia will focus on the transformative theme of global citizenship. Who is a global citizen? What does global citizenship mean in a university context? The course will help students build multiple understandings and skills into their professional and personal lives to explore diverse issues such as race/ethnicity, global diversity, and teamwork and leadership in a diverse group setting. Through discussion among peers and term long projects that involve working closely with individuals from diverse cultures and backgrounds, students uncover their own knowledge frameworks and assumptions and how they can effectively work in a globally diverse context. They will discover how social contexts, cultural beliefs, and language deeply shape our ways of knowing, communicating, and acting, often without our awareness. Meets- 1/14, 1/21, 1/28, and 2/18 only. Cross-listed with HC 407. Satisfies **UHC Colloquia**

**BA 390H                      Marketing**

CRN: 39551                      Section 001                      MW 800 - 950                      STAG 237                      4 UHC Credits

Instructor: Jim McAlexander

Consumer and industrial markets, and activities and enterprises involved in distributing products to those markets. Objective is to develop an understanding of distribution processes, marketing problems, and marketing principles. Prereqs: ECON 201 and junior standing This Honors section is open to sophomores who have completed the ECON 201/201H or AREC 250 prerequisite. Satisfies **UHC Elective**.

**BA 407H                      Experiencing Business Research**

CRN: 39553                      Section 001                      MW 1600 - 1650                      BEXL 328                      2 UHC Credits

Instructor: Roger Graham

Develops an appreciation for the range of research programs in business through exposure to the research being conducted by College of Business faculty -- faculty from the various business disciplines will present their research in each class session. The intent is to provide UHC students with detailed examples of business research to generate ideas for UHC thesis topics and to help establish connections for thesis advisors. Satisfies **UHC Colloquia**.

**BA 465H                      Systems Thinking and Practice**

CRN: 35386                      Section 001                      TR 1000 - 1150                      STAG 237                      4 UHC Credits

**OR**

CRN: 40193                      Section 002                      TR 1400 - 1550                      STAG 237

Instructor: Jonathan King

This course will get you to “think outside the box” by examining the hard and soft systems which both sustain and constrain us. This involves learning how to identify patterns of interactions, 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 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**.

**BB 407H Scientists in the Public Eye**

|            |             |                |           |               |
|------------|-------------|----------------|-----------|---------------|
| CRN: 39935 | Section 001 | MW 1400 - 1450 | STAG 226B | 2 UHC Credits |
|------------|-------------|----------------|-----------|---------------|

Instructor: Kevin Ahern

This is a course for students who wish to learn about and improve skills for communicating relative to professional school interviews. These include medical school, pharmacy school, dentistry school, optometry school, nursing school, and law school. Students will also learn to prepare a personal statement relevant to their chosen discipline. Minimum sophomore standing recommended. Satisfies **UHC Colloquia**.

**BI 212H Principles of Biology**

|            |                 |                 |         |               |
|------------|-----------------|-----------------|---------|---------------|
| CRN: 33830 | Lec Section 001 | MWF 1000 - 1050 | MLM 026 | 2 UHC Credits |
|------------|-----------------|-----------------|---------|---------------|

**OR**

|            |                 |                 |         |                        |
|------------|-----------------|-----------------|---------|------------------------|
| CRN: 33829 | Lec Section 002 | MWF 1300 - 1350 | MLM 026 | Instructor: Lori Kayes |
|------------|-----------------|-----------------|---------|------------------------|

**SIGN UP FOR ONE OF THE LAB/401H PAIRS BELOW**

|            |                 |               |          |                              |
|------------|-----------------|---------------|----------|------------------------------|
| CRN: 33831 | Lab Section 010 | M 1400 - 1650 | WNGR 228 | Instructor: Indira Rajagopal |
|------------|-----------------|---------------|----------|------------------------------|

**AND**

|            |                             |               |          |  |
|------------|-----------------------------|---------------|----------|--|
| CRN: 33275 | <b>BI 401H</b> -Section 001 | M 1400 - 1650 | WNGR 228 |  |
|------------|-----------------------------|---------------|----------|--|

**OR**

|            |                 |               |          |                            |
|------------|-----------------|---------------|----------|----------------------------|
| CRN: 35402 | Lab Section 020 | W 1400 - 1650 | WNGR 112 | Instr: Luis Sayavedra-Soto |
|------------|-----------------|---------------|----------|----------------------------|

**AND**

|            |                              |               |          |  |
|------------|------------------------------|---------------|----------|--|
| CRN: 38079 | <b>BI 401H</b> - Section 002 | W 1400 - 1650 | WNGR 112 |  |
|------------|------------------------------|---------------|----------|--|

Cell biology, organ systems, plant and animal biology. Lecture common with non-Honors. Lab is reserved for UHC students enrolled in lecture/lab sections of BI 212. The BI 401H credit is an additional credit for research done during the lab section. Lecture, lab, and additional lab research credit (BI 401H) total 5 OSU credits. PREREQ/COREQ: CH 121 or CH201 or CH 221 or CH CH 224 or CH 231 or CH 261 and For life science majors and pre-professional students. \$30 fee. Satisfies **Bacc Core Biological Sciences**.

**BOT 499H Poetry and Landscape**

|            |             |               |           |              |
|------------|-------------|---------------|-----------|--------------|
| CRN: 39554 | Section 001 | T 1500 - 1650 | CORD 4083 | 1 UHC Credit |
|------------|-------------|---------------|-----------|--------------|

**Meets weeks 1-5 only**

Instructor: Donald Zobel

We will read poetry, both outside and during class, about the natural landscape, plants and animals, and ecological phenomena in the northwestern US. We will discuss the natural phenomena that are represented by the poetry and the insights into nature that the poets provide. We will select phenomena for detailed study. We will visit and discuss the history and properties of a Willamette Valley landscape, and identify in it the phenomena that we could use to write about the place we live. We will write about what we see. Meets dates 1/2, 1/8, 1/15, 1/29, 2/5 only. Graded P/N. Satisfies **UHC Colloquia**.

**CBEE 102H      Engineering Problem Solving and Computations**

|            |                 |                |          |               |
|------------|-----------------|----------------|----------|---------------|
| CRN: 39555 | Lec Section 001 | M 1600 - 1650  | GILB 124 | 1 UHC Credits |
| CRN: 39556 | Lab Section 010 | WF 1400 - 1550 | GRAF 210 |               |

Instructor: Christine Kelly

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 common with non-Honors. Lab is reserved for UHC students enrolled in lecture/lab sections of CBEE 102H. PREREQS: MTH 251 or 251H. Satisfies **UHC Elective**.

**CH 232H      Honors General Chemistry**

\*\*\*\*Choose lecture and one of the corresponding recitation sections.\*\*\*\*

|            |                   |               |          |               |
|------------|-------------------|---------------|----------|---------------|
| CRN: 39653 | Section 001- Lec  | MWF 1200-1250 | LPSC 125 | 4 UHC Credits |
| AND        |                   |               |          |               |
| CRN: 40112 | Section 010 - Rec | T 1100 – 1150 | NASH 214 |               |
| OR         |                   |               |          |               |
| CRN: 40113 | Section 011 - Rec | R 1400 – 1450 | GRA 210  |               |

Instructor: Michael Lerner

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: CH231H and CH 262H or CH 272, COREQ: CH 262H. Satisfies **Bacc Core Physical Sciences**.

**CH 262H      Laboratory for Honors General Chemistry**

\*\*\*\*Choose one of the laboratory sections.\*\*\*\*

|            |             |               |          |              |
|------------|-------------|---------------|----------|--------------|
| CRN: 39654 | Section 010 | T 1200 - 1450 | LPSC 178 | 1 UHC Credit |
| OR         |             |               |          |              |
| CRN: 39655 | Section 011 | R 1500 - 1750 | LPSC 178 |              |

Instructor: Margie Haak

This is the laboratory for the 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. Additional \$30 lab fee. PREREQ: CH 261/261H, COREQ: CH 262H. Satisfies **Bacc Core Physical Sciences**.

**CH 362H Experimental Chemistry I**

|            |                 |                                |          |               |
|------------|-----------------|--------------------------------|----------|---------------|
| CRN: 33790 | Lec Section 010 | T 1300 - 1350                  | GBAD 409 | 3 UHC Credits |
| CRN: 33791 | Lab Section 011 | T 1400 - 1650<br>R 1300 - 1650 | GBAD 409 |               |
| <b>OR</b>  |                 |                                |          |               |
| CRN: 33792 | Lec Section 020 | W 1300 - 1350                  | GBAD 409 |               |
| CRN: 33793 | Lab Section 021 | W 1400 - 1650<br>F 1300 - 1650 | GBAD 409 |               |

Instructor: Emile Firpo or John Loeser

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 361/361H and CH335, \$44 non-refundable fee. No show drop. Must contact Chemistry department to register. Satisfies **UHC Elective**.

**CH 462H Experimental Chemistry II**

|            |                 |                |          |               |
|------------|-----------------|----------------|----------|---------------|
| CRN: 33794 | Lab Section 001 | W 1300 - 1350  | GBAD 309 | 3 UHC Credits |
| <b>OR</b>  |                 |                |          |               |
| CRN: 33795 | Lab Section 010 | WF 1300 - 1650 | GBAD 309 |               |

Instructor: Michael Lerner and Christine Pastorek

Advanced integrated laboratory course for junior level chemistry majors concentrating on physical and analytical chemistry of polymers and materials. Students synthesize a synthetic rock, zeolite, and make PMMA, a polymer. Students learn first hand techniques of: PXRD, INAA, DSC, TGA, GPC, electrochemistry, reaction kinetics by flash photolysis, pulsed polarography and ASV. PREREQ: CH 362/362H and CH 441 and (CH 324 or CH 46/ CH 461H and CH 422 is recommended. \$44 non-refundable fee. Satisfies **UHC Elective WIC for Chemistry majors**.

**COMM 114H Argument and Critical Discourse**

|            |             |                |          |               |
|------------|-------------|----------------|----------|---------------|
| CRN: 36715 | Section 001 | TR 1200 - 1320 | STAG 233 | 3 UHC Credits |
|------------|-------------|----------------|----------|---------------|

Instructor: Robert Iltis

Examination of argumentation as a part of human interaction and investigation. The course is divided into two components. The first deals with the fundamental principles of practical argumentation. Students will read assignments in the text, discuss them in class, and work exercises that develop skills. There will be one midterm and a final exam over these materials. In the second component students apply principles and skills in oral presentations. Students first will present an oral argument and written brief organized around a deductive structure. Second, students will participate in a mock congress to argue opposed positions on controversial topics. This assignment requires both oral and written presentations. **Satisfies Bacc Core Speech.**

**CS 325H                      Analysis of Algorithms**

CRN: 37322                      Section 001                      MWF 1500 - 1550                      STAG 237                      4 UHC Credits

Instructor: Paul Cull

Informally, an algorithm is a procedure which solves a problem and is suitable for implementation as a program for a digital computer. The exact definition of "algorithm" is a major intellectual achievement of the Twentieth Century. At once, this definition solves the philosophical problem of "truth " versus "proof", and, it also lays the foundation for the digital computers which are the defining technology of our current era.

For philosophers, knowing that something can be done may be sufficient, but technologists also want to know HOW to do it. Even after they have a method for a problem, technologists want to know if their method is "best" or whether there are "better" methods to solve the problem.

In CS 325H we will survey these important problems, and learn techniques to design, prove, and analyze algorithms. We will use these techniques to program and profile several of these algorithms. Students will study one algorithm in depth and give oral and written reports on their studies. Students must be enrolled in the Professional Engineering Program (Pro School) to enroll in this class. PREREQS: CS 261 and MTH 232 or CS 225. Prereq waived for Honors students. Satisfies **UHC Elective**.

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

CRN: 37325                      Section 001                      MWF 1400 - 1450                      MORE 334                      4 UHC Credits

Instructor: Chris Anderson

In this class we'll try to set aside everything else and look closely at the language and style of the four canonical gospels, Matthew, Mark, Luke, and John, 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. I'll ask you to do a short warm-up essay, a take-home essay midterm, and a take-home essay final. There'll also be pop quizzes along the way, as well as frequent 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; Western Culture**.

**ENGR 112H                      Engineering Orientation II**

CRN: 39557                      Section 001                      MWF 900 - 950                      ROG 332                      3 UHC Credits

Instructor: Cindy Grimm

Systematic approaches to engineering problem solving using computers. Logical analysis, flow charting, input/output design, introductory computer programming and use of engineering software.. Satisfies **UHC Elective**.

**ENGR 213H                      Strength of Materials**

CRN: 39558                      Section 001                      TR 800 - 950                      ROG 332                      3 UHC Credits

Instructor: Brian Bay

Properties of structural materials; analysis of stress and deformation in axially loaded members, circular shafts, and beams, and in statically indeterminate systems containing these components. PREQS: ENGR 211/ ENGR 211H. Satisfies **UHC Elective**.

**ENGR 363H      Energy Matters**

CRN: 39560      Section 001      TR 1400 - 1550      OWEN 106      3 UHC Credits

Instructor: Joe Zaworski

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. PREREQ: MTH 112. Satisfies **Bacc Core Science, Technology and Society**.

**H 491H      Mental Health and Social Policy**

CRN: 37327      Section 001      TR 1600 - 1650      STAG 237      2 UHC Credits

Instructor: Ray Tricker

This course is designed to examine the effects of important past and current issues related to mental health and mental disability in the United States today, in particular: the mental health professions and different approaches to treatment; risk factors and causes of mental illness; the residual impact of deinstitutionalization; housing and homelessness among the mentally ill; the right to refuse treatment; some major mental disorders – schizophrenia, depression and suicide, phobia/anxiety disorders; post Second World War mental health policy; the influence and relationship among philanthropic groups and government; innovations in mental health-supportive housing and assertive community treatment (ACT); the legal system; and the concept of dangerousness and mental illness, are areas of study for this class. Students will be able to apply innovative analytical techniques to examine how many mental disorders are reinforced by psycho-social and socio-psychological interactions. Graded P/N. Satisfies **UHC Colloquia**.

**HC 199      Honors Writing**

CRN: 34405      Section 001      MWF 1000 - 1050      STAG 233      3 UHC Credits

**OR**

CRN: 31665      Section 002      TR 800- 920      STAG 233

**OR**

CRN: 37328      Section 004      TR 1000-1120      STAG 233

Instructor: 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. Required for Honors Scholar track. PREREQ: WR 121. Satisfies **Bacc Core Writing II AND equivalent to WR 327 for Engineering and others majors**.

**HC 407                    Power of Context**

CRN: 36716            Section 001                    T 1200 - 1350                    STAG 237                    2 UHC Credits

Instructor: Jonathan King

Regular practice in sketching "organized stupidities." Revealing the power of self-reinforcing loops in everyday behaviors. Developing ways to achieve greater response-abilities in your personal, organizational, and national lives. Satisfies **UHC Colloquia**.

**HC 407                    Sing a Song of Science**

CRN: 39561            Section 002                    T 1400 - 1450                    STAG 226B                    1 UHC Credit

Instructor: Kevin Ahern

"Sing a Song of Science" 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 **UHC Colloquia**.

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

CRN: 36743            Section 003                    M 1500 - 1550                    STAG 233                    1 UHC Credit

Instructor: 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 **UHC Colloquia**.

**HC 407                    Bicycle Rights!: Bike Culture(s) in American History**

CRN: 39562            Section 004                    MW 900 - 950                    STAG 226B                    2 UHC Credits

Instructor: Thomas Bahde

This course examines the bicycle in American culture from the 1890s through the present. We will be especially focusing on how bicycling has been represented in popular culture, the ways in which images and advertising have shaped assumptions about bicycling, and how bicycle advocates have articulated their right to the road. The bicycle revolutionized individual mobility in the 1890s, but by World War II had been relegated to sport, recreation, and childhood as cities increasingly prioritized automobile travel. The 21st century has seen a new interest in bicycling, especially for transportation. As we examine the trajectory of the evolving cultures and images of the bicycle in American life, we will seek to understand the multiple roles played by the bicycle over time, and consider the bicycle as one way to access the cultural life of material objects. Graded P/N. Satisfies **UHC Colloquia**.

**HC 407                    Energy IQ: Resources, Responsibility, and Renewability Today and Tomorrow**

CRN: 37329            Section 005                    MW 1300 - 1350                    STAG 237                    2 UHC Credits

Instructor: Dan Euhus/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 **UHC Colloquia**.

**HC 407                    Robots and Romance: Science Fiction and the Erotic Imagination**

CRN: 39563            Section 006                    W 1800 - 2050                    STAG 233                    2 UHC Credits  
**Meets weeks 2 - 8 only**

Instructor: Gilad Elbom

How does science fiction cinema envision close encounters of the intimate kind? Inspecting a wide variety of futuristic movies, we will examine notions of passion, desire, sex, sensuality, robotics, reproduction, androids, androgyny, and other related topics. Is there room for courtship, romance, rejection, heartbreak, and other arguably outmoded concepts in a future world marked by cold precision, mathematical formulas, and technological perfection? Is there room for impure thoughts, unmade beds, and the inherently confusing nature of physical love in an excessively clean, calculated, controlled environment? Among the visual texts we will view and discuss are mainstream productions, independent films, and cult classics: *Woman in the Moon* (Germany, 1929), *The Brain That Wouldn't Die* (USA, 1962), *2001: A Space Odyssey* (UK/USA, 1968), *Sleeper* (USA, 1973), *Blade Runner* (USA, 1982), *Liquid Sky* (USA, 1982), *Solaris* (Russia, 1972; USA; 2002), and other movies from different countries and periods. We will also pay attention to critical selections from outside sources and exchange ideas about our topics from multiple perspectives: social, political, historical, psychological, and other relevant approaches. We will expand our analysis through questions about genre, reception, design, plot, narrative devices, gender relations, human-computer interaction, intercultural encounters, utopia and dystopia. This colloquium will culminate with a short piece of original research, incorporating different sources into a unified work of critical commentary. Meets- 1/16, 1/23, 1/30, 2/6, 2/13, 2/20 and 2/27 only. Graded P/N. Satisfies **UHC Colloquia**.

**HC 407                    Building Homes and Hope: Developing Service Learning in Romania**

CRN: 39564            Section 008                    W 1500 - 1550                    STAG 226B                    1 UHC Credit

Instructor: Dave Kovac

Study what makes for profound social impact, examine reach and sustainability of international service work, develop group fundraising and awareness building projects and events, and study the predicted affects of service on participants. Satisfies **UHC Colloquia**.

**HC 407            You Said Europe?**

CRN: 39565            Section 009            WF 1100 - 1150            STAG 237            2 UHC Credits

Instructor: Joseph Krause

You said Europe? London, Paris, Rome, Budapest? Seen from the outside, Europe is often perceived as a magnetic destination for tourists, history buffs, and for burgeoning writers, cineastes and painters. Seen from within, particularly by young Europeans, it is an unfinished or equivocal idea. The 1989 Revolutions brought promise for unity and continental stability based on an intellectual legacy fostering progress and development. But Europe is also an idea that represents a violent suppression of cultures, an enduring conflict between histories, memories and beliefs. North Americans justifiably continue to find in Europe many of their cultural origins. But Europe, as an object of cultural inquiry has been for the most part relegated on US campuses to a secondary status, eclipsed by post-colonial studies. In this course we will attempt to cross over disciplines in order to examine the factors that have contributed to harmony and to dislocation in Europe, to unity across cultures and to racial divides. The colloquium discussions will permit students to juxtapose and challenge different interpretations of the European entity and of cultural identity at the beginning of this century. Satisfies **UHC Colloquia**.

**HC 407            Thinking Critically: Professional Skills for Global Citizens**

CRN: 39573            Section 010            M 1600 - 1820            STAG 233            1 UHC Credit  
**Meets weeks 2 - 7 only**

Instructor: Sunil Khanna

See **ANTH 407** for the complete course description. Meets- 1/14, 1/21, 1/28, and 2/18 only. Cross-listed with ANTH 407H. Satisfies **UHC Colloquia**.

**HC 408            Workshop THESIS: LEARN**

CRN: 36744            Section 001            R 1700 - 1850            STAG 203            1 UHC Credit  
**Meets weeks 2, 4, and 8 only**

Instructors: Toni Doolen/Kevin Ahern/Eric Hill/Indira Rajagopal

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, faculty, and alumni with experience in the thesis process. TheSIS will assist you by tracking three tasks: 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, or an alum, and 3) answering a series of "nuts and bolts" questions about what it takes to successfully complete the thesis, questions that are relevant to this stage of their experience. The Undertake module of the TheSIS will then be 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. Graded P/N. Meets 1/17, 1/31 and 2/28 only. Satisfies **UHC Intro to Thesis**.

**HC 408                      Workshop THESIS: UNDERTAKE**

CRN: 39920              Section 002                      R 1700 - 1850                      STAG 203                      1 UHC Credit  
**Meets weeks 3 and 7 only**

Instructor: Toni Doolen

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 University Honors College. Graded P/N. PREREQ: HC 408 TheSIS: LEARN. Meets- 1/24 and 2/21 only. Satisfies **UHC Elective**.

**HC 409                      PRAC/CONVERSANTS**

CRN: 32016              Section 005                      GILK 100                      1 UHC Credit

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 UHC advisor to complete a Learning Agreement. Applications must be submitted online no later than the end of week 1. Graded P/N. Satisfies **UHC Elective**.

**HST 202H                      History of the United States**

CRN: 39576              Section 001                      MW 1000 - 1150                      GILK 100                      4 UHC Credits

Instructor: Stacey Smith

Provides an overview of the development of the U.S. from the pre-Columbian era to the present. Attention is given to economic, political, and social trends, as well as to international relations. Covers years 1820 to 1920. HST 201H, HST 202H, and HST 203H need not be taken in sequence. Satisfies **Bacc Core Difference, Power, and Discrimination; Western Culture**.

**HST 432H                      The History of Sexuality**

CRN: 37335              Section 001                      TR 1200 - 1350                      STAG 226B                      4 UHC Credits

Instructor: Robert Nye

This course is a general historical survey of sexuality in the West from the Greeks to the present. The emphasis will be on trying to understand changes in sexual behavior, attitudes toward sexuality, law, and ethics in historical context. There will be material on sex and gender, pornography, religion, the biology of the sexual body, and the sexual revolution. There will be a mid-term exam, a final exam, and a brief paper. Satisfies **UHC Elective**.

**HSTS 415H      Theory of Evolution and Foundation of Modern Biology**

CRN: 37439      Section 001      TR 1000 - 1150      MLM 206      4 UHC Credits

Instructor: Michael Osborne

This class covers historical, cultural, and methodological issues of three so-called revolutions in modern biology. These are the Darwinian revolution in evolutionary theory generally said to have happened in 1859, but not understood in the modern sense until about 1930. The second revolution is the emergence of molecular and structural biology. The class will focus on the 1953 discovery of the double helical structure of DNA, and we will tour the Linus Pauling collections at the Special Collections unit of the OSU Valley Library. The third revolution is a contemporary one and concerns the isolation of human embryonic stem cells and epigenetic mechanisms. No prior knowledge of evolution, DNA, or modern developmental biology is presumed. The professor will lecture on these three topics and provide students with the intellectual tools to identify and assess "revolutionary science." The class is structured to include discussions of readings and other course content including films. The majority of assigned readings occur in the first six weeks of the course so that students may work intensively on papers in the final four weeks. Course requirements include completion of a mid-term, final, and peer-review exercise, and submission of an acceptable revised paper. Junior standing or higher required. Satisfies **Bacc Core WIC; Science, Technology and Society**.

**HSTS 440H      History of Psychotherapy**

CRN: 39577      Section 001      TR 1000 - 1150      GILK 100      4 UHC Credits

Instructor: 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 230H      Introduction to Microbiology**

CRN: 39578      Lec Section 001      MW 1000 - 1050      STAG 237      4 UHC Credits  
CRN: 39579      Lab Section 010      F 1000-1150      NASH 316

Instructor: Linda Bruslind

Microbiology as it affects our everyday lives. The impact of microorganisms on health, food/water, sanitation, environment, industry, and genetic engineering. In the lecture section, students will discuss microbial topics in relation to current events in the news, drawing correlations with their own opinions and experiences. In the laboratory section, students will learn basic microbiological techniques and then build on these to design a microbiology experiment of their choosing. Satisfies **Bacc Core Biological Sciences**.

**ME 331H      Introductory Fluid Mechanics**

CRN: 36745      Section 001      TR 1400 -1550      COVL 218      4 UHC Credits

Instructor: Jim Liburdy

This course 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. Fluid mechanics is the study of fluids, either liquid or gas, at rest or in motion. This course includes studying the manner in which objects behave in fluids, the manner in which fluids flow through ducts and around obstacles, and the interaction between two fluids. In order to analyze these effects conservation equations of mass, momentum, and energy are developed and applied to engineering situations. The honors section will be more "hands-on" with time spent on problem solving in class and there will be a project/presentation instead of a final exam. PREREQS: MTH 254/MTH 254H and MTH 256/MTH 256H and ENGR 212/ENGR 212H and (ME 311/ME 311H or NE 311/311H). Satisfies **UHC Elective**.

**MTH 252H      Integral Calculus      4 UHC Credits**CRN: 33796      Section 001      MWF 1400 - 1520      KIDD 280      Mina Ossiander  
**OR**  
CRN: 39580      Section 002      MWRF 1100-1150      NASH 214      Clay Petsche

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. Additional \$10.00 Fee. PREREQ: MTH 251/251H. \$10 fee. Satisfies **UHC Elective**.

**MTH 254H      Vector Calculus I**CRN: 37338      Section 001      MW 1300 - 1350      STAG 233      4 UHC Credits  
F 1200 - 1350

Instructor: Dennis Garity

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. Satisfies **UHC Elective**.

**MTH 255H      Vector Calculus II**CRN: 36746      Section 001      MWF 900 - 950      STAG 233      4 UHC Credits  
CRN: 36747      Section 010      W 800-850      STAG 233

Instructor: Tevian Dray

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 or instructor consent. Satisfies **UHC Elective**.

**MTH 256H Applied Differential Equations**

CRN: 33797 Section 001 MWF 1200 - 1310 WNGR 201 4 UHC Credits

Instructor: Juha Pohjanpelto

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 or instructor consent. Satisfies **UHC Elective**.

**MTH 306H Matrix and Power Series Methods**

CRN: 33840 Section 001 MWF 1000 - 1110 WNGR 285 4 UHC Credits

Instructor: Adel Faridani

MTH 306H will move at a fast pace from day one. We plan to cover most of the textbook. Topics will include introduction to matrix algebra, determinants, systematic solution to linear systems, and eigenvalue problems. Convergence and divergence of series with emphasis on power series, Taylor series expansions, convergence tests for power series, and error estimates for truncated series used in practical approximations. PREREQ: MTH 252/252H; MTH 254/254H recommended. Satisfies **UHC Elective**.

**MUS 102H Rock and Roll History**

CRN: 39863 Section 001 MW 1100 - 1220 STAG 233 3 UHC Credits

Instructor: Ryan Biesack

This survey is a selected examination and study of musical and social events that have occurred in popular culture over a period of roughly the past 50 years, and what has come to be known generally as "Rock" music. The survey will begin its journey looking at the 1950's and the beginnings of Rock music and conclude with the Rock culture of today. The term "Rock" music will be used as an umbrella or generic term to cover the many variations of popular music that fall under its reach; Motown, Soul, R & B, Disco, Acid Rock, Death Metal, Thrash Metal, Punk Rock, Indy Rock, Grunge, etcetera, etcetera. As there are numerous artists and performers who have contributed to Rock music, this survey will focus on a selected group who have significantly changed, or illustrate the change in Rock music. Satisfies **Bacc Core Literature and the Arts**.

**NE 331H Introductory Fluid Mechanics**

CRN: 38163 Section 001 TR 1400 -1550 COVL 218 4 UHC Credits

Instructor: Jim Liburdy

See ME 331H for the complete course description. PREREQS: MTH 254/MTH 254H and MTH 256/MTH 256H and ENGR 212/ENGR 212H and (ME 311/ME 311H or NE 311/311H). Satisfies **UHC Elective**.

**OC 407H Oceans, Coasts, and People**

CRN: 39862      Section 002      TR 1000 - 1050      WLKN 106      2 UHC Credits

Instructor: Rob Wheatcroft

This is an issues-based course that describes the way people, oceans and coasts interact with one another and the systems and institutions that people have developed to manage these interactions. Thematic areas addressed are: marine hazards and coastal development; climate change and ocean systems; sustainable utilization of marine fisheries; marine conservation and the Marine Protected Area debate. Satisfies **UHC Colloquia**.

**PH 104H Descriptive Astronomy**

CRN: 39581      Section 001      MWF 1200 - 1250      WNGR 285      4 UHC Credits  
CRN: 39582      Section 010      R 1400 – 1550      WNGR 206

Instructor: Randall Milstein

PH 104H provides a descriptive introduction to basic astronomy. Topics include planets of the Solar System, asteroids, comets, the Sun and other stars - including their lifecycles, galaxies and constellations, pulsars, and black holes. The fundamentals of planetology and cosmology will be covered, as well as an introduction to dark matter and dark energy. A brief history of the science of astronomy including historical and cultural context of significant astronomical discoveries are covered. Most importantly, the course discusses the nature of science and basic physics concepts required to understand how we know what we know about the Universe to develop an appreciation for the basic concepts and principles of modern astronomy and the frontiers of astronomy before us. Satisfies **Bacc Core Physical Sciences**.

**PH 222H Recitation for PH 212**

CRN: 34913      Section 001      T 1100-1150      WNGR 304      1 UHC Credit

Instructor: Tomasz Giebultowicz

Honors recitation reserved for UHC 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. Lecture, Lab, and Recitation, 5 OSU credits. COREQ: PH 212. Satisfies **Bacc Core Physical Sciences**.

**PH 223H Recitation for PH 213**

CRN: 34912      Section 001      R 1100 - 1150      WNGR 304      1 UHC Credit

Instructor: Ken Krane

Honors recitation reserved for UHC 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. Lecture, Lab, and Recitation, 5 OSU credits. COREQ: PH 213. Satisfies **Bacc Core Physical Sciences**.

**PH 407H                    Cosmology: The History and Nature of the Universe**

CRN: 38072            Section 001                    TR 1400 - 1450                    STAG 237                    2 UHC Credits

Instructor: Albert Stetz

Cosmology is the study of the universe, its past history, its future, and all the lines of evidence and reason that give us confidence that we at least partially understand so great a subject. Modern cosmology was born with Einstein's theory of general relativity, but until recently it has been mostly mathematical speculation supported by a little data. In the last fifteen years, however, advances in ground-based and satellite-based astronomy have expanded our knowledge enormously. It now appears that the universe is being torn apart by some mysterious anti-gravity force, that the motions of galaxies are determined by some particles of dark matter unlike anything ever detected in the field of high-energy physics, and that the shape of the cosmos was determined by an initial inflation phase in which the fabric of spacetime expanded at a speed vastly exceeding the speed of light. The physicist's version of this is highly mathematical, but the qualitative aspects can be understood by anyone with a lively interest in the subject. Satisfies **UHC Colloquia**.

**PHL 205H                    Ethics**

CRN: 39583            Section 001                    TR 1200 - 1350                    HOV 100                    4 UHC Credits

Instructor: Allen Thompson

Ethical and moral reasoning encompass at least three kinds of questions. We might, for example, be interested simply in what the right thing to do in a particular circumstance is – how ought we act or what kind of person should we (try to) be? Or we might wish to know why acting in one way rather than another was right – what, in other words, makes something moral or immoral? Finally, we might wonder why we should be moral at all – what is, or ought to be, our motivation for acting morally or being a good person? In this class, we will explore these questions through an introduction to various ethical theories that we will use to analyze and evaluate a variety of ethical issues and problems. Satisfies **Bacc Core Western Culture**.

**TA 147H                    Introduction to the Theatre**

CRN: 36768            Section 001                    TR 830 - 950                    WITH 173 (Lab Theatre)            3 UHC Credits

Instructor: Marion Rossi

The theatre, with multiple artistic voices and forms of expression, requires the application and development of effective communication skills. TA 147H activities simulate selected steps in the creative process(es) of theatre artists. Students gain insight and experience in small group communication while exploring how the various arts of the theatre (sets, lights, costumes, acting, directing, writing) communicate individually and collectively. Creative acts and activity make for direct, hands-on learning experiences. Satisfies **Bacc Core Literature and the Arts**.

**WS 223H            Women: Self and Society**

CRN: 39584            Section 001            TR 1400 - 1520            STAG 233            3 UHC Credits

Instructor: Kryn Freehling-Burton

This course focuses on the lives and unequal status of women in contemporary U.S. society. We will examine what it means to be female today, and explore the images and messages we receive from our culture – specifically around the issues of gender, race, class, sexual identity, ability, age, size, looks, nation, language and other differences. Attention will be on understanding our everyday lives in such a way that we can critically understand ourselves in relation to others and social institutions. It is hoped that students will learn new information about women in society that will help raise their consciousness of the realities, choices, and strategies for change. The course blends a variety of teaching and learning strategies that include lecture, discussion, viewing film, writing, responding in visual, creative ways, and presentations. Satisfies **Bacc Core Difference, Power, and Discrimination; Social Processes and Institutions.**

**WS 235H            Global Women in the Movies**

CRN: 39585            Section 001            T 1600 - 1850            STAG 233            3 UHC Credits

Instructor: Patti Duncan

In this discussion-oriented interdisciplinary course, we will examine representations of women and gender through screening films from various genres within a global context. In particular, we will explore films produced by women and/or about women's lives and experiences in order to analyze constructions and practices of gender in a transnational, multireligious, global framework. By examining the context of various films created within particular historical and cultural contexts, we will develop and expand our understanding of the cultural productions, meanings, and intersections of race, gender, culture, class, sexual identity, and nation. Satisfies **Bacc Core Cultural Diversity.**

**WSE 470H            Forests, Wood and Civilization**

CRN: 39586            Section 001            MWF 900 - 950            TBA            3 UHC Credits

Instructor: Hal Salwasser

Part of this course involves student role-play as members of special interest groups, and then joining forces in Citizens Advisory Panel to make a recommendation for a fictitious renewable resource issue. Class will benefit from students with wide range of academic backgrounds and personal views to ensure lively and deep discussions and to challenge us to work on our critical thinking skills. Required: Junior or Senior Status, or permission of the instructor. Satisfies **Bacc Core Contemporary Global Issues.**