ANS 121H  Introduction to Animal Sciences

CRN:  19574  Section 001  MWF 1000 – 1050  NASH 214  4 UHC Credits
CRN:  19575  Section 010  M 1300 – 1450  SPAV 101

Instructors:  Dale Weber, Matt Kennedy, Dawn Sherwood

Principles of breeding, physiology, nutrition and management as they apply to modern livestock and poultry production. Current issues affecting livestock and poultry production will be researched and discussed in class. Students will prepare and present oral and written information on the breeds of livestock and poultry. Hands-on opportunities with the various species will be provided in the laboratory sessions. Additional $55.00 lab fee. Satisfies Bacc Core Biological Sciences.

ANTH 407H  Principles of Population, Then and Now: from Malthus to Sustainability

CRN:  17983  Section 001  F 1000 - 1150  STAG 237  2 UHC Credits

Instructors:  Roberta Hall, Richard Clinton

Thomas Malthus was one of the most influential theorists of the 19th century, a towering intellect by the age of twenty eight whose work shaped some of the central ideas of the modern era. His work on population was key to the development of evolutionary theory, and the concerns he raised about the relationship between population growth and resource scarcity remain central issues for all modern societies. This course will go beyond the familiar “Malthusian theory” and explore connections between human population dynamics and contemporary issues in evolution, ecology, and sustainable development.

Students who have taken this course say they enjoy not only the readings, which tie in directly with current issues in our society, but also appreciate the time that both professors make available for answering questions and discussing topics of interest. Readings include chapters from Malthus’s famous essay An Essay on the Principle of Population, from E.F. Schumacher’s Small is Beautiful, from Darwin’s Origin of Species, and from books by contemporary scholars Paul Ehrlich and Herman Daly. Crosslisted with PS 407H. Satisfies UHC Colloquia.

BA 340H  Finance

CRN:  17860  Section 001  MW 1000 - 1150  STAG 237  4 UHC Credits

Instructor:  Jimmy Yang

Role and functions of a financial manager in the modern business environment in which a manager operates; formulation of financial objectives and policies; financial analysis, forecasting, planning, and control; asset management; capital budgeting; acquisition of funds through borrowing, stock issue, and by internal means; dividend policy; and international aspects of finance. This course serves as a substitute for BA 360 for business majors. PREREQS: ( (BA 213 or BA 215/215H) and (ECON 201/201H) ) or junior standing. Satisfies UHC Elective.
BI 211H  Principles of Biology

CRN: 14587  Section 001  MWF 1000 - 1050  MLM 026  2 UHC Credits
OR
CRN: 14586  Section 002  MWF 1300 - 1350  MLM 026

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

CRN: 14588  Section 010  M 1400 - 1650  WNGR 228  Indira Rajagopal
AND
CRN: 13239  BI 401H – Sec. 001  M 1400 – 1650  WNGR 228  Indira Rajagopal
OR
CRN: 16101  Section 020  F 1400 - 1650  WNGR 112  Kari Van Zee
AND
CRN: 16102  BI 401H – Sec. 002  W 1400 – 1650  WNGR 112  Kari Van Zee

Lecture Instructor: Lori Kayes
Origins of life, energy transformations, plant and animal diversity. Lecture common with non-Honors, Lab is reserved for UHC students enrolled in lecture/lab sections of BI 211. BI 401 Lab Sec. 001 is an additional credit for research done during the lab section. Lecture, Lab, and additional Lab research credit total 2 UHC credits and 5 OSU credits. Additional $29 fee  PREREQS: General Chemistry (may be taken concurrently). Satisfies Bacc Core Biological Sciences.

BI 314H  Cell and Molecular Biology

CRN: 16113  Section 001  TR 1400 - 1520  CORD 1109  2 UHC Credits
CRN: 16114  Section 010  R 1000 - 1050  CORD 3121
AND
CRN: 17598  BI 405H – Sec 001  TR 1400 – 1520

Instructor: Indira Rajagopal
Fundamental concepts of prokaryotic and eukaryotic cell biology. Emphasizes cell structure and function at the molecular level. The Honors recitation will focus on recent research. Students will read and discuss recent articles and write research papers on topics of special interest. Lecture common with non-Honors. Recitation is reserved for UHC students enrolled in lecture section of BI 314H. Lecture, recitation, and reading and conference credit total 2 UHC credits and 5 OSU credits. Grades will be determined as follows: Exams (2 midterms and a final) 60%; Recitations (Reading, discussion, research paper, etc.) 40%. PREREQS: (BI 211/211H) and (BI 212/212H) and (BI 213/213H); COREQ: (CH 331 or CH 334). Satisfies UHC Elective.

CBEE 101H  CHE, BIOE and ENVE Orientation

CRN: 17349  Section 010 (lec)  M 1800 - 1850  WNGR 151  2 UHC Credits
CRN: 17350  Section 011 (rec)  R 1500 – 1650  MLM 202
CRN: 17351  Section 012 (lab)  R 1300 – 1450  GRAF 210

Instructor: Skip Rochefort
Introduction to the Chemical, Biological, and Environmental Engineering profession for first year and transfer students. The primary purpose is to introduce students to the fields of chemical, biological, and environmental engineering and career opportunities within those fields, as well as to develop basic skills for a career in engineering. Lecture sec. 010 is common with non-Honors, Recitation and Lab are reserved for UHC students enrolled in the lecture section of CBEE 101H. Additional $25 fee. Lecture, Rec and Lab, total 3 OSU credits. Satisfies UHC Elective.
**CH 231H  Honors General Chemistry**

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

CRN: 19564
Section 001- Lec MWF 1600 - 1650 LPSC 125 4 UHC Credits

AND

CRN: 19571
Section 010 - Rec T 1400 – 1450 WGND 132

OR

CRN: 19572
Section 011 - Rec R 1400 – 1450 NASH 214

Instructor: Wei Kong

This first course in a General Chemistry sequence is for Honors College students with one year of high school chemistry. The lecture and recitation sequence examines the characteristics of molecular and atomic behavior and the way in which these influence chemical properties and reactions. Lecture is common with non-Honors student lecture. CH 231H and CH 261H must be taken together. PREREQ: One year of high school chemistry and acceptable aptitude test scores. Satisfies Bacc Core Physical Sciences.

**CH 261H  Honors General Chemistry**

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

CRN: 19567
Section 010 - Lab T 1500 - 1750 LPSC 219 1 UHC Credit

OR

CRN: 19570
Section 011 - Lab R 1500 - 1750 LPSC 219

Instructor: Margie Haak

This first course in a General Chemistry sequence is for Honors College students with one year of high school chemistry. This laboratory sequence examines the characteristics of molecular and atomic behavior and the way in which these influence chemical properties and reactions. Additional $30 fee. PREREQ: One year of high school chemistry and acceptable aptitude test scores. CH 231H and CH 261H must be taken together. Satisfies Bacc Core Physical Sciences.

**CH 361H  Experimental Chemistry I**

CRN: 13684
Section 010 T 1300 - 1350 GBAD 409 3 UHC Credits

CRN: 13685
Section 011 TR 1300 - 1650 GBAD 409

OR

CRN: 13686
Section 020 W 1300 - 1350 GBAD 409

CRN: 13687
Section 021 WF 1300 - 1650 GBAD 409

Instructor: John Loeser, Emile Firpo

First term of the integrated laboratory program for chemistry majors and biochemistry/biophysics majors, combining first hand techniques in organic, physical, and analytical chemistry. This is an advanced chemistry laboratory emphasizing organic chemistry techniques, use of instrumentation and computers, along with technical report writing. Students develop critical thinking skills and learn essential technical standards of: acidification, filtration, weighing, titration, recrystallization, melting point determination, organic synthesis of water sensitive compounds, product isolation, fractional distillation, gas chromatography, and scientific data analysis using spreadsheets. Each student will keep a legal scientific laboratory notebook and receive training in proper use of chemicals, chemical fume hoods, Personal Protective Equipment (PPE), and how to determine chemical hazards using Material Safety Data Sheets (MSDS). Additional $44 fee. No-show, drop. PREREQ: CH 223 or CH 226H. COREQ: (MTH 251 or MTH 251H) and (PH 201 or PH 211 or PH 201H or PH 211H) and CH 334. Contact the Chemistry department for registration. Satisfies UHC Elective.
CH 461H  Experimental Chemistry II

CRN: 14204  Section 001  T 1300 - 1350  GBAD 211  3 UHC Credits
CRN: 14244  Section 010  TR 1300 - 1650  GBAD 211

Instructor: Christine Pastorek
Integrated laboratory for junior level chemistry majors and related disciplines concentrating on modern techniques in analytical chemistry. Students learn the basics of scientific instrumentation by building their own absorption and fluorescence spectrometers from electronic and optical modules. Firsthand experience is also gained using a variety of commercial instrumentation, such as diode array UV-Vis, scanning fluorimeter, HPLC, AA and ICPAES. Real samples are analyzed throughout the term, and a special project of the student’s design is a final highlight. See the course web page for examples of past projects. Additional $44 fee. PREREQ: CH 362 or CH 362H. COREQ: CH 421 and CH 440. Students can go to the CH 461 and 461H web page and fill out the online form to request an override, or contact the Chemistry department for registration. Satisfies UHC Elective.

CH 464H  Experimental Chemistry II

CRN: 13688  Section 001  M 1300 - 1350  GBAD 211  3 UHC Credits
CRN: 14205  Section 011  M 1400 – 1650  W 1300 - 1650  GBAD 309

Instructor: C. Fang
Senior level integrated laboratory for chemistry majors and related disciplines such as biochemistry, physics, and engineering. Covers experimental techniques of analytical, organic, inorganic, and physical chemistry, with the emphasis on the latter two. Consists of three projects: Project 1 – Synthesis and Equilibrium of HCl, DCl, DBr, and HBr; Project 2 - Synthesis and Characterization of CdSe Quantum Dots; Project 3 - Ordering in Nematic Liquid Crystals. Additional $44 fee. PREREQ: CH 362/362H and CH 442 (or approval of instructor). CH 461 or CH 324 is recommended. Contact the Chemistry department for registration. Satisfies UHC Elective.

CS 321H  Introduction to the Theory of Computation

CRN: 19659  Section 001  MWF 1400 - 1450  MLM 033  3 UHC Credits

Instructor: Paul Cull
A major accomplishment of the 20th century was the EXACT definition of computability. In this course, we will explore both the philosophical implications and the technological innovations which arise out of this definition. We will use as our guide: Godel, Escher, Bach by Douglas Hofstadter. PREREQ: MTH 252 and pro-school requirement waived for Honors students. Satisfies UHC Elective.

ENG 245H  The New American Cinema/Studies in Film

CRN: 19576  Section 001  T 1600 - 1850  W 1900 - 2250  WGN 132  4 UHC Credits

Instructor: Jon Lewis
This class will combine a close look at American Cinema from 1975-present with work on the American Film Institute’s Academic Network Project. All students enrolled in this class will, along with students at UCLA, Pitt, and the University of Texas at Austin, research and write entries for publication in the prestigious AFI “basic records” catalog. Additional $20 fee. Crosslisted with ENG 452H. Satisfies Bacc Core Literature Arts.
**ENG 452H  Studies in Film/The New American Cinema**

CRN: 19577  Section 001  T 1600 - 1850  WGND 132  4 UHC Credits
CRN: 19578  Section 010  W 1900 - 2250  GILK 115

Instructor: Jon Lewis
This class will combine a close look at American Cinema from 1975-present with work on the American Film Institute’s Academic Network Project. All students enrolled in this class will, along with students at UCLA, Pitt, and the University of Texas at Austin, research and write entries for publication in the prestigious AFI “basic records” catalog. Additional $20 fee. PREREQS: Minimum sophomore standing; 8 credits of ENG 200-level or above. Crosslisted with ENG 245H. Satisfies UHC Elective.

**ENGR 211H  Statics**

CRN: 19779  Section 001  MWF 1300 – 1350  KEAR 202  3 UHC Credits

Instructor: Michael Scott
Analysis of forces induced in structures and machines by various types of loading. More complex problem-solving; strong math and physics background expected. Sophomore standing prereq is waived for this section. COREQ: MTH 254 or MTH 254H (prior completion is highly recommended). Satisfies UHC Elective.

**ENGR 407H  Experiencing Engineering Research**

CRN: 18147  Section 001  F 1200 - 1350  STAG 237  2 UHC Credits

Instructor: Belinda Batten
The College of Engineering seeks to encourage faculty/student collaboration in research and to engage students in the study of issues related to engineering. ENGR 407H supports College of Engineering Honors College students by providing exposure to research faculty and to research projects in the College of Engineering. Therefore, students should view this course as an opportunity to form relationships with research faculty and to develop research ideas for their Honors College thesis. ENGR 407H will be operated in a seminar format. College of Engineering researchers will present their research and encourage discussion with students. The primary learning outcomes of this course relate to the demonstration of knowledge about engineering research. Specifically, students will be able to identify current issues relevant to engineering research topics, describe a variety of research methodologies in engineering that are appropriate to a particular topic, and be able to design a research study in engineering. Satisfies UHC Colloquia.

**H 364H  Drugs, Society, and Behavior**

CRN: 19573  Section 001  TR 1200 - 1320  GILK 100  3 UHC Credits

Instructor: Ray Tricker
This course provides students with opportunities to examine the complexities surrounding the use and abuse of drugs in the United States today. Course content will include discussion of the health and social effects of the use and misuse of alcohol, tobacco, stimulant and depressant drugs, medications, hallucinogens, marijuana and other illegal drugs; and the public health aspects of using/abusing these drugs. Through the selection of an applied assignment, students will be able to explore the phenomenon of addictive behavior, in addition to formulating a personal philosophy related to drug use. The challenges inherent in trying to prevent substance abuse will be addressed, with particular regard to the multi-tiered influences on decisions to abuse drugs e.g. the physical and psychological environment, socioeconomic status, poverty, minority status and lack of opportunity, and national policy to name a few. PREREQ: PSY 201 or PSY 202. Satisfies UHC Elective.
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This course is designed to help you develop effective communication and analytical skills through a variety of in-class and formal assignments. You will learn to use a variety of rhetorical strategies to create documents such as proposals, reports, letters, working bibliographies, and simple process descriptions. You will also use the tools of critical analysis to “get under the hood” of written and oral communication, using a critical eye to analyze audience, technique, and the various types of rhetorical purposes. Engineers must think critically about information, analyzing, summarizing, and communicating information in a variety of contexts. Because workplace communication is a complex social transaction, each situation must be evaluated both ethically and culturally in order to effectively exchange information in a global community. The final assignment for the class will be a group project that will require a group of students to pool their communication skills for both process and the product. Required for Honors Scholar track. PREREQ: WR 121. Satisfies UHC Bacc Core, Writing II AND equivalent to WR 327 for Engineers.

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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.

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Instructor: Eric Hill

This course is designed to help you develop strategies and skills to communicate scientific research and information. In this class you will assess the various modes of written communication, practicing them through in-class exercises and formal assignments. You will address key components of scientific and technical communication:
- Working collaboratively,
- Connecting with specific and multiple audiences,
- Maintaining an ethical stance,
- Doing research,
- Evaluating and reporting information,
- Writing in a variety of forms,
- Critically analyzing articles in scientific fields,
- Preparing an oral presentation and final research project.

Through individual and collaborative writing assignments, you will develop a strategy for effective written and oral communication. Required for Honors Scholar track. PREREQ: WR 121. Satisfies Bacc Core Writing II.
HC 299  Farside Entomology

CRN: 14253  Section 001  T 1800 – 1950  STAG 233  2 UHC Credits
CRN: 20200  Section 002  R 1800 – 1950  STAG 233  2 UHC Credits

Instructor: Michael Burgett

HC299 is designed to introduce you to the humanistic side of entomology by utilizing the entomological humor of Gary Larson, et alia as paradigms of human-insect interactions. Interactions between humans and insects are numerous, of variable time scales and of varying implications (for both the human and the insect), ranging from the mildly humorous to the deadly serious. The "cartoon" format normally provides an anthropomorphic view of insects. This can be an incredibly rich venue as an introduction to the more serious aspects of insects and their relevance to human activities. Satisfies UHC Colloquia.

HC 299  Oregon Outback Tour

CRN: 16576  Section 003  October 12 - 14  2 UHC Credits
(Leave 2pm Friday, return Sunday afternoon)

Instructor: John Buckhouse

The 2012 Oregon Outback Tour will visit several remote and seldom seen places in central Oregon. We will tour and explore the Fort Rock area south and east of Bend. This is a unique and stark region which teems with history...geologic history; native American history; pioneer history—all with 21st Century ties to the issues of the current day. We will study desert ecology, geologic formations, soils, vegetation, and cultural circumstances. We will be camping and hiking in rough and remote areas. Cell phone coverage will be spotty to non-existent. Meals will be prepared on-site and will consist of hearty, healthy, camp style fare. Persons with dietary constraints are advised to contact Dr. Buckhouse. The dates will be Friday afternoon (leaving around 2 PM) on October 12 returning to Corvallis on Sunday, October 14th. Individuals must be prepared for dramatic changes in the weather form very cold to very warm and must be capable of and willing to participate in outdoor activities. Each individual will need to provide her/his own sleeping bag, backpacker-sized tent, clothing and footwear. Satisfies UHC Elective.

HC 299  Orientation for Transfer Students

CRN: 16981  Section 005  R 1700 - 1850  GILK 104  1 UHC Credit

Instructor: TBA

This course will help transfer students from other colleges and universities make a successful transition to Oregon State University. Topics will include 1) revisiting study skills required for success, 2) learning about campus resources available for students, 3) laying the groundwork for completion of the Honors Thesis, 4) understanding your role as “dual citizens” in the University Honors College and a discipline-based college, and 5) planning for life after graduation. Class meets three Thursdays, 10/4, 10/18, 11/1. Satisfies UHC Elective.
HC 407  Building Homes and Hope Through International Service: Initiating the Transylvania Project

CRN: 19579  Section 001  R 1600-1650  STAG 208  1 UHC Credit
     Section 008  W 1500-1550

Instructor: Dave Kovac

The University Honors College is offering a unique International Service-Learning opportunity culminating in a trip with Habitat for Humanity building homes and hope in Cluj–Napoca (Cluj), Romania, historic and cultural capital of the Transylvania region. Students who take this trip can earn up to three HC 406 credits. In advance of this trip, the UHC will offer a series of HC 407 International Service-Learning colloquia in the fall, winter, and spring terms (details below) that will discuss service-learning and help students prepare for the experience. All students who plan to participate in the service trip must complete one of the three term colloquia and are encouraged to take two or three. This course series is designed to engage students in initiating, developing, delivering, and experiencing a summer international service-learning project.

Students will initiate the development of a service project in Cluj, Romania in partnership with Habitat for Humanity International. We will learn about the challenges of international NGO/non-profit work, specifically how Habitat for Humanity has created a successful and sustainable model for mobilizing volunteers to help build simple, decent shelter for families in need around the world.

In this course students will create initial project plans while researching the need and impact of service work in developing Transylvania/Romania. In addition to developing preliminary itineraries and budgets as part of a project proposal, this class will help students create a cultural context for the work to be done while strategizing for individual funding and fundraising options to support the project. Students who plan to participate in the summer trip are strongly encouraged to take this colloquium. Satisfies UHC Colloquia.

HC 407  Analyzing Humor

CRN: 19580  Section 002  TR 1400 - 1450  GILK 115  2 UHC Credits

Instructor: Eric Hill

The writer E.B. White once said, “Explaining a joke is like dissecting a frog. You understand it better but the frog dies in the process.” We’ll be killing a lot of frogs in this course, examining many types of humor -- including satire (Horatian versus Juvenalian), burlesque, parody, irony, gallows, anti-humor, and more. Students will write analyses and present examples of humor in class. PREREQ: WR 121. Satisfies UHC Colloquia.

HC 407  Food IQ: Resources, Responsibility, and Renewability Today and Tomorrow

CRN: 19581  Section 003  MW 1300 - 1350  STAG 237  2 UHC Credits

Instructors: Dan Arp & Lauren Gwin

We all have to eat. What do we eat, where does it come from, what happens along the way, and why does that matter? In this course, part of the series of “IQ” courses, students will engage with different complex and controversial aspects of food systems in the U.S. We will explore the role of social values, economics, and public policy in influencing food systems and food choices. Students will lead discussions, give presentations, and write a personal food systems philosophy/statement. Satisfies UHC Colloquia.
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. Satisfies UHC Colloquia.

This colloquium is designed to acquaint you with the excitement in all areas of contemporary science. Because of the impact of science on all aspects of our lives, educated citizens, whether or not in technical fields, should maintain awareness of current science and its effect on formation of public policy. One way to do this is to read Science, the weekly newsmagazine of the American Association for the Advancement of Science. In this colloquium students will read in recent issues of Science, available on line in the Valley Library. Each student will select articles of his/her own choosing and deliver brief oral reports in class, 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. Topics covered in presentations may include DNA robotics, earthquake prediction, arsenic-loving bacteria, teaching evolution in public schools, issues connected with mass vaccination, maintenance of forensic DNA data banks, DNA-based computing, or increased occurrence of "freak" weather patterns. Satisfies UHC Colloquia.

For this course we will immerse ourselves in the American street from the mid-19th century to the mid-20th century, associating with vagrants, strumpets, pickpockets, and thieves, picking our way through vast piles of manure and the rotting carcasses of dead livestock, dodging runaway horses, streetcars, bicycles, and automobiles. We will analyze the physical transformation of the street over time and seek to understand the street as a public space, and thus a place of conflict, a locus of identity formation, and a medium for social, cultural, and political expression. The meaning of the street has evolved over time to signify both a place of danger, and a conduit for legitimacy and authority (“street cred”). It has also recently come to signify a hopeful vision of the future of urban form (“Complete Streets”). We will address how the evolving cultural image of the street is reflected and shaped by what happens on actual streets. Satisfies UHC Colloquia.
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.  PREREQ: WR 121. Satisfies UHC Intro to Thesis.

HC 409 PRAC/CONVERSANT
CRN: 12155 Section 007

The INTO OSU’s Conversant Program provides an opportunity for honors students to help INTO OSU students practice their English. To earn one elective credit, Honors students need to commit to meeting with their international student for an average of one hour per week throughout the term, keep a log of the times and places of meetings and the topics discussed, and at the end of the term write a two-page “reflections” paper about the experience. For complete details, along with application materials visit http://oregonstate.edu/dept/honors/pathways. Students must meet with a UHC advisor to complete a Learning Agreement. Graded P/N. Satisfies UHC Elective.

ME 311H Introduction to Thermal - Fluid Sciences
CRN: 16978 Section 001 TR 1400 - 1550 STAG 233 4 UHC Credits

Instructor: Deborah Pence

Basic concepts of fluid mechanics, thermodynamics and heat transfer are introduced. Conservation of mass, energy and momentum, and the second law of thermodynamics are covered. UHC section is much more interactive than the regular section and will include designing and/or preparing learning activities for future ME 311 and future ME 311H classes. Crosslisted with NE 311H. PREREQ: MTH 256/256H, ENGR 212/212H. Satisfies UHC Elective.

ME 332H Heat Transfer
CRN: 19582 Section 001 TR 1200 - 1350 ROG 332 4 UHC Credits

Instructor: Vinod Narayanan

Heat transfer involves the transport of thermal energy. The course will provide the theoretical foundations on which both steady-state and transient heat transfer models are based. This theory will be used to solve practical design problems in engineering, including heat exchangers and heat treatment processes. PREREQS: ( (MTH 256/256H) and (ENGR 212/212H) and (ME 311/ME 311H) and (ME 331/331H) ). Satisfies UHC Elective.
ME 382H  Introduction to Design

CRN: 19583  Section 001  MWF 1200 - 1250  COVL 216  1 UHC Credit
CRN: 19584  Section 010  F 1000 - 1150  ROG 228

Instructor: Robert Paasch

The objective of this course is to provide a team project-based, hands-on discovery experience of developing prototype products through a well-organized engineering design process including planning, problem definition, concept design, product design/realization, and testing. Design processes and methods are introduced through the Lectures; the process and methods are applied in a design project in the Design Studio. Achieving the course objective will be measured through how well the students attain the course learning outcomes. Lecture common with non-Honors. Lecture and lab equal 4 OSU credits. PREREQS: ENGR 248 and ME 316, COREQS: ME 250. Satisfies UHC Elective.

MTH 251H  Differential Calculus

CRN: 13689  Section 001  MWF 1000 - 1120  KIDD 237  Radu Dascaliuc

CRN: 19585  Section 002  MWF 1200 – 1320  WNGR 285  Adel Faridani

Instructors: Radu Dascaliuc or Adel Faridani

This is the first term of the calculus sequence for scientists, engineers, and others, including mathematics majors. The first two terms of the sequence, MTH 251 and MTH 252, focus on real-valued functions of a single real variable, including polynomial, rational, algebraic, trigonometric, exponential, and logarithmic functions. Differential calculus involves the study of rate of change in all its forms, including velocity, acceleration, population growth and other natural and physical phenomena. Differential calculus features the derivative, techniques of differentiation, and applications of the derivative, including optimization problems, the geometry of curves, and analysis of motion. This course emphasizes geometric reasoning not just computation. PREREQ: MTH 112. Satisfies Bacc Core Mathematics.

MTH 252H  Integral Calculus

CRN: 17865  Section 001  MWF 1100 - 1150  KIDD 238  4 UHC Credits

Instructor: Yevgeniy Kovchegov

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. Satisfies UHC Elective.

MTH 254H  Vector Calculus I

CRN: 13690  Section 001  MWF 1400 – 1520  STAG 233  Juha Pohjanpelto

CRN: 17452  Section 002  MWF 1000 - 1050  KIDD 280  Robert Higdon

F 1400 – 1450  STAG 211

Instructors: Juha Pohjanpelto or Robert Higdon

MUS 102H  Music Appreciation II: Music and Film

CRN: 17866  Section 001  TR 1200 - 1320  KIDD 236  3 UHC Credits

Instructor: Dana Reason

This course explores film music appreciation. We examine methods for both analyzing what we hear, as well as develop the ability to understand the unique styles of various film music composers. We will trace the evolution of film music through early film to present day cinema, examining both important Hollywood films as well as less familiar Independent and International films and film composers. We will also survey how sound used in animation, trailers, horror films and the key relationships between directors and composers. Students will learn key musical terms throughout which to examine film scores. Satisfies Bacc Core Literature Arts.

NE 311H  Introduction to Thermal - Fluid Sciences

CRN: 18259  Section 001  TR 1400 - 1550  STAG 233  4 UHC Credits

Instructor: Deborah Pence

Crosslisted with ME 311H, see ME 311H for detailed description. PREREQ: MTH 256/256H, ENGR 212/212H. Satisfies UHC Elective.

NE 332H  Heat Transfer

CRN:  Section 001  TR 1200 - 1350  4 UHC Credits

Instructor: Vinod Narayanan

Crosslisted with ME 332H, see ME 332H for detailed description. PREREQS: ( (MTH 256/256H) and (ENGR 212/212H) and (ME 311/ME 311H) and (ME 331/331H) ). Satisfies UHC Elective.

OC 407H  Astrobiology

CRN: 18385  Section 001  TR 1300 - 1350  WLKN 106  2 UHC Credits

Instructor: Rick Colwell and Martin Fisk

The question of whether life exists elsewhere in the universe is a verifiable scientific hypothesis. "Astrobiology" is an interdisciplinary course that combines aspects of astronomy, physics, chemistry, geology, and biology that are relevant to the origin and evolution of life and its possible distribution in the universe. Students will use the basic scientific principles of these five fields of science to explore the limits of life in the cosmos. Classroom activities or projects will be used to demonstrate the principles. Altogether the out-of-class assignments and preparation for the next class will take from 1 to 3 hours of out-of-class effort. PREREQ: High School Introductory Chemistry. Satisfies UHC Colloquia.
PH 221H        Recitation for PH 211

CRN: 15504     Section 001    T 1100 - 1150    WNGR 304    1 UHC Credit

Instructor: David McIntyre
Honors recitation reserved for UHC students enrolled in lecture/lab sections of PH 211. One-hour weekly session for the development of problem-solving skills in calculus-based general physics. Lecture, Lab, and Recitation combined, total 5 OSU credits. Satisfies Bacc Core Physical Sciences.

PH 222H        Recitation for PH 212

CRN: 13691     Section 002    R 1100 - 1150    WNGR 304    1 UHC Credit

Instructor: Henri Jansen
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. Satisfies Bacc Core Physical Sciences.

PH 407H        Wart Hogs and Boa Constrictors: Topics in Religion and Science

CRN: 16980     Section 001    TR 1400 - 1450    STAG 237    2 UHC Credits

Instructor: Albert Stetz
Are science and religion natural enemies locked in a struggle to the death as some best sellers suggest? Richard Dawkins’ The God Delusion, Sam Harris’ The End of Faith, and Christopher Hitchens’ God is Not Great assert that modern evolutionary theory and genetics refute the claims of religion in general and Christianity in particular. New Earth Creationists, on the other hand, insist that the Bible proclaims that evolution is a lie and the earth is only 6000 years old. In historian Ian Barbour’s felicitous phrase, this seems like a battle between a wart hog and a boa constrictor. In the end the victor swallows the vanquished. This can’t be the whole story, however. For example, most of the recent winners of the 1.5 million dollar Templeton Award (given for, "exceptional contributions to affirming life's spiritual dimension") have been well-known physicists. Many of the great scientists of the past, including Galileo, Isaac Newton, and Johannes Kepler were pious believers. Once one gets past the “warfare” mindset there are many ways in which modern science can inform religion. We can ask for example if modern cosmology can justify the belief in creation ex nihilo, whether quantum indeterminacy leaves room for free will, whether physical laws are consistent with the notion of divine intervention, and whether the intelligent design hypothesis makes sense in the light of modern genetics. These questions should be approached with an understanding of what scientific inquiry can and cannot tell us and discussed in an atmosphere of mutual respect and tolerance. Satisfies UHC Colloquia.
PHL 160H  
**Quests for Meaning: World Religions**

CRN: 18084  
Section 001  
MW 1000 - 1150  
WALD 329  
4 UHC Credits

Instructor: Stuart Sarbacker

This course is an introduction to the phenomenon of religion and its many facets. We will begin the course with a discussion of concepts and definitions of religion through a conversation in which our native understandings of religion are brought together with various traditional and academic understandings. This discussion will include an examination of the history of the term “religion” and the ways in which the meaning of the term has shifted, and continues to shift, over time. Following the contemporary work of Ninian Smart, we will look at seven key “dimensions” of religion: narrative, doctrine, ritual, experience, ethics, society, and material. We will also explore different approaches, including literary, historical, and philosophical methods, used by scholars to understand different aspects of the phenomenon of religion. These dimensions and methods will then be applied in an examination of a range of religious traditions, including indigenous traditions, Hinduism, Buddhism, Jainism, Sikhism, Judaism, Christianity, and Islam. Our in-class discussions will be complemented with an off-campus field research project that will involve the application of the dimensional analysis of religions to a field experience of a living religious tradition. Readings from the course will focus on Ninian Smart’s dimensional analysis and on the data of the world’s religions as represented in Fisher’s Living Religions. We will further build upon these sources and issues with supplementary reading and writing assignments and presentations of audio and visual material. The instructor will provide guidance on additional readings upon request. Satisfies Bacc Core Cultural Diversity.

PHL 444H  
**Biomedical Ethics**

CRN: 19586  
Section 001  
TR 1200 - 1340  
STAG 233  
4 UHC Credits

Instructor: Jonathan Kaplan

PHL 444H BIOMEDICAL ETHICS (4) Application of ethical principles and decision-making processes to selected problems in medicine, health care, and biotechnology. Special attention given to end-of-life choices, reproductive rights and technologies, organ transplantation, research ethics, genetic engineering, and allocating scarce resources. An interdisciplinary focus that draws on social, legal, economic, and scientific issues in ethical decision in medicine. PREREQS: Honors College approval required. Satisfies Bacc Core Science, Technology, Society.

PS 407H  
**Principles of Population, Then and Now: from Malthus to Sustainability**

CRN: 17988  
Section 001  
F 1000 - 1150  
STAG 237  
2 UHC Credits

Instructor: Richard Clinton

_Crosslisted with ANTH 407H, see ANTH 407H detailed description._ Satisfies UHC Colloquia.

TCE 408H  
**Sundown Towns in Oregon**

CRN 19859  
Section 001  
T 1400-1550  
TBA  
Moule, Jean

This course will provide an opportunity for participants to explore, in-depth, Oregon’s racist past through the exploration of Sundown Towns. It is anticipated that such an exploration will help students understand the underpinnings of our United States societal racism. Class meets Sept. 25, Oct. 9, 16, 30, and Nov. 20 only. Additional $12.00 field trip fee. Field trip will be held all day, October 16th. Satisfies UHC Colloquia.
WS 280H     Global Women

CRN: 17867     Section 001     T 1800 - 2050     GILK 100     3 UHC Credits

Instructor: Janet Lee

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.

Z 407H     Climate Change in Film

CRN: 19587     Section 001     TR 1600 - 1650     STAG 233     2 UHC Credits

Instructor: Mark Hixon

The climate change "debate" is largely an American phenomenon, which has resulted in the United States neither taking action nor preparing for the future. This 2-credit colloquium will survey, discuss, and evaluate various documentary films that examine or advocate both sides of this debate. The intention is to prepare students with useful knowledge to address an uncertain future. Satisfies UHC Colloquia.