

ANTH 399H	PRINCIPLES OF POPULATION THEN & NOW: FROM MALTHUS TO SUSTAINABILITY			2 UHC credits
CRN 16619	Section 001	W 1000 – 1150	BEXL 211	Hall, Roberta Clinton, Richard

Thomas Malthus was a towering intellect but today is much more often referred to than read. His work had enormous influence on the development of evolutionary theory in the 19th century, and the concerns he addresses remain central issues that all societies must struggle with. This 2-cr. colloquium can provide students with much more than a dictionary definition of "the Malthusian theory" and can help students understand connections among human population dynamics and modern issues in evolution, ecology, and sustainable development. *Crosslisted with PS 399H*. Satisfies **UHC Colloquia**.

BA 360H	INTRODUCTION TO FINANCIAL MANAGEMENT			4 UHC credits
CRN 19861	Section 001	MW 1000 – 1150	STAG 237	Yang, Jimmy

Explore the issues facing a financial manager in new business ventures, small businesses, and corporations. Focus on the role of the financial manager in business settings, explores the functions of a financial manager in financial analysis, forecasting, planning, and control; asset and liability management; capital budgeting; and raising funds for new business ventures, small businesses, and corporations. **PREREQS:** (BA 213 or BA 215 or BA 215H). This course serves as a substitute for BA 340 in the business minor. *Junior standing and ECON 201 prereqs are waived for this section*. Satisfies **UHC Elective**.

BA 407H	BUSINESS RESEARCH			1 UHC credit
CRN 16855	Section 001	W 1700 - 1750	BEXL 326	Drexler, Jack Graham, Roger

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. Satisfies **UHC Colloquia**.

BB 405H	SCIENTISTS IN THE PUBLIC EYE			2 UHC credits
CRN 16071	Section 001	TR 1300-1350	STAG 233	Ahern, Kevin

This course is aimed at teaching students how to effectively employ scientific communications in their professional lives. Aimed at students who will be applying to professional schools, the course consists of weekly discussions, interview practice sessions and exercise in both thinking on their feet and writing a personal statement. Student performances will be videotaped and the tapes will be used for analysis and enhancement of student communication skills. Student communication skills will be focused appropriately on the career interest of each student—professional schools, biotechnology industry, government agency, etc. Satisfies **UHC Colloquia**.

BI 211H	PRINCIPLES OF BIOLOGY			2 UHC credits
CRN 15116	Lecture Sec. 001	MWF 1000 – 1050	MLM 026	Harwell, A
OR				
CRN 15115	Lecture Sec. 002	MWF 1300 – 1350	MLM 026	Harwell, A

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

CRN 15117 AND BI 401H CRN 13523	Lab Section 010 Add'l Lab Sec. 001	T 800 – 1050 T 800 – 1050	WNGR 228 WNGR 228	Rajagopal, Indira Rajagopal, Indira
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OR

CRN 17068 AND BI 401H CRN 17069	Lab Section 020 Genomics lab Sec. 002 (Limited to First-year and Sophomore students, <u>by application only</u>)	T 900 – 1150 T 900 – 1150	CORD 2089 CORD 2089	Denver, Dee/ Taylor, Barb Denver, Dee/ Taylor, Barb
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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. The BI 401H Add'l Lab Sec. 001 is an additional credit for research done during the lab section. Lecture, Lab, and additional Lab research credit BI 401H total 5 OSU credits. Additional \$29 fee. PREREQS: General Chemistry (may be taken concurrently). Satisfies **BCC, Biological Science**.

Genomics Lab, Section 020 and BI 401H Add'l lab, Section 002. This laboratory is part of an innovative and inquiry-based program to find new viruses of bacteria and enter their newly discovered viral genome into a national database of sequences. *Contact the Biology department for registration, which is by application only.*

BI 314H/BI 405H CELL AND MOLECULAR BIOLOGY 2 UHC credit

CRN 17086 AND CRN 17087 AND BI 405H CRN 19916	Lecture Sec. 001 Recitation Sec. 001 Add'l Reading and Conference credit	MWF 1600 – 1650 R 1000 – 1050	CORD 1109 ALS 2018	Rajagopal, Indira Rajagopal, Indira Rajagopal, Indira
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Fundamental concepts of prokaryotic and eukaryotic cell biology. Emphasizes cell structure and function at the molecular level. This Honors recitation will focus on recent Reading and Conference. 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. Students who elect to participate are eligible to register for an extra reading and conference credit for this course. 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 or BI 211H) and (BI 212 or BI 212H) and (BI 213 or BI 213H) and (CH 331 or CH 334). Satisfies **UHC Elective**.

CBEE 101H CHE, BIOE, AND ENVE ORIENTATION 2 UHC credits

CRN 19249 <u>AND</u> CRN 19250 <u>AND</u> CRN 19251	Lecture Sec. 001 Recitation Sec. 010 Lab Section 020	M 1400 – 1450 F 1400 – 1550 W 1300 – 1450	DEAR 118 OWEN 102 GRAF 210	Rochefort, Skip Rochefort, Skip Rochefort, Skip
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Introduction to the engineering profession in general and in particular the CHE, BIOE, and ENVE programs; development of problem-solving strategies and teamwork; analysis and presentation of experimental data, basic process calculations, and design methodologies. Lecture common with non-Honors, Recitation and Lab are reserved for UHC students enrolled in the lecture section of BIOE 101H. Additional \$25 fee. Lecture, Rec and Lab, total 3 OSU credits. Satisfies **UHC Elective**.

CH 224H HONORS GENERAL CHEMISTRY 5 UHC credits

****Choose lecture and one of the corresponding recitation & lab sections ****

CRN 14043	Lecture Sec. 001	MWF 1200 - 1250	GILB 124	Evans, Glenn
<u>AND</u>				
CRN 14044	Rec. & Lab 010	T 1400 – 1750	WNGR 149A/GBAD 209	Haak, Margie
<u>OR</u>				
CRN 14096	Rec. & Lab 011	R 1400 – 1750	FAIR 305/GBAD 209	Haak, Margie

First course in a General Chemistry sequence for Honors College students with one year of high school chemistry. This 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. Satisfies **BCC, Physical Science**.

CH 361H EXPERIMENTAL CHEMISTRY I 3 UHC credits

****Choose one of the corresponding lecture/lab sections ****

CRN 14045	Lecture Sec. 010	T 1300 – 1350	GBAD 409	Firpo, Emile/ Loeser, John
CRN 14046	Lab Section 011	T 1400 – 1650 R 1300 – 1650	GBAD 409	Firpo, Emile/ Loeser, John
<u>OR</u>				
CRN 14047	Lecture Sec. 020	W 1300 – 1350	GBAD 409	Firpo, Emile/ Loeser, John
CRN 14048	Lab Section 021	W 1400 – 1650 F 1300 – 1650	GBAD 409	Firpo, Emile/ Loeser, John

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. Only Chemistry, Biochemistry and Biophysics majors/minors/options may enroll. *Contact the Chemistry department for registration*. Satisfies **UHC Elective**.

CH 461H EXPERIMENTAL CHEMISTRY II 3 UHC credits

CRN 14662	Lecture Sec. 001	T 1300 – 1350	GBAD 309	Gupta, Manish/ Pastorek, Christine
<u>AND</u>				
CRN 14716	Lab Section 010	T 1400 – 1650 R 1300 – 1650	GBAD 309	Gupta, Manish/ Pastorek, Christine

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. First hand 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. *Contact the Chemistry department for registration*. Satisfies **UHC Elective**.

CH 464H	EXPERIMENTAL CHEMISTRY II			3 UHC credits
CRN 14049	Lecture Sec. 001	M 1300 – 1350	GBAD 211	Watson, Philip / Pastorek, Christine
AND				
CRN 14663	Lab Section 011	M 1400 – 1650 W1300 – 1650	GBAD 309 GBAD 309	Watson, Philip / Pastorek, Christine

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 or 362H and CH 442 (or approval of instructor). CH 461 or CH 324 is recommended. *Contact the Chemistry department for registration.* Satisfies **BCC, WIC.**

COMM 218H	INTERPERSONAL COMMUNICATION			3 UHC credits
CRN 16621	Section 001	MW 1600 – 1720	STAG 233	Bowker, Judy

Introduction to dyadic and relational communication. Overview of current research in such areas as verbal and nonverbal messages, self-concept and perception, culture and gender stereotypes and styles, relational development and dissolution and conflict management. Satisfies **BCC, WR III.**

ENG 206H	SURVEY OF BRITISH LITERATURE: VICTORIAN ERA TO 20TH CENTURY			4 UHC credits
CRN 19600	Section 001	MWF 1200-1310	STAG 237	Davison, Neil

English literature presented in chronological sequence. Satisfies **BCC, West Culture or Lit and Arts.**

ENGR 112H	ENGINEERING ORIENTATION II: ENGINEERING COMPUTATION			3 UHC credits
CRN 18598	Section 001	MW 0900-0950 F 0800-0950	ROG 332 ROG 336	Squires, Nancy

Engineering problem solving using computers. Algorithm design and implementation in a procedural language involving sequence, selection, and repetition structures. Use of intrinsic and development of user-defined subprograms. Character manipulation, file input/output, and simple user interface design. Computer programming problems from all disciplines of engineering science are presented. PREREQ: MTH 251. Satisfies **UHC Elective.**

ENGR 211H	STATICS			3 UHC credits
CRN 15688	Section 001	MW 1300-1350	ROG 440	Zaworski, Joseph
CRN 15689	Section 010	F 1300 – 1350	ROG 440	

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.**

FR 270H **FRANCE TODAY: CULTURES WITHIN
AND BEYOND ITS BORDERS** 3 UHC credits

CRN 18599 Section 001 TR 1000-1120 KIDD 237 Krause, Joseph

This course is for students who seek an understanding of the dynamics and specificity of France in today's world. It examines French culture and society since 1945 by exploring the underlying social and intellectual currents that have contributed to France's present character. We will examine French politics, philosophy, arts, economy, and demographics, including questions related to the French position in the international world and in Europe, as well as everyday perspectives on food and the cost of living in France.

There are no prerequisites and knowledge of French is not necessary. The course satisfies requirements of the French major and minor options. This Honors section will include three additional components: 1) weekly reading reports by partner groups; 2) periodic guest faculty from other OSU departments; 3) a one page critical appreciation of Yamina Benguigui's film *Inch'Allah Dimanche*. An invitation will also be extended to the Attaché culturel at the French Consulate in San Francisco to participate in one session of the class. Satisfies **BCC, Western Culture**.

GEO 307H **NATIONAL PARK GEOLOGY AND PRESERVATION** 3 UHC credits

CRN 18601 Lecture Section TR 1200-1320 WILK 207 Lillie, Robert

This course will engage students in projects that require individual and team efforts to combine elements of science and humanities to learn about the landscapes of national parks and their connections to society and its values. We will examine geological features and processes through examples in our national parks, monuments, and seashores. Learn how mountains, volcanoes, earthquakes, and other geological phenomena result from processes that occur within or on the surface of the Earth. The plate-tectonic framework is used to present geology in a systematic way, so that students learn to interpret landscapes in national parks and other areas of the country. Course includes one-day field trips to Crater Lake National Park (on Sat. Oct. 2), and Cape Perpetua (on Sat. Oct. 23). Students will study interpretive methods and use them to develop and present actual interpretive products, similar to ranger programs presented in national parks; brochures for hiking trails; and museum exhibits. Additional \$36.00 fee. Satisfies **BCC, Science, Technology & Society**.

H 399H **DRUGS, SOCIETY & HUMAN BEHAVIOR** 2 UHC credits

CRN 18603 Section 001 MW 1400-1450 WALD 244 Tricker, Raymond

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, socio-economic status, poverty, minority status and lack of opportunity, and national policy to name a few. Satisfies **UHC Colloquia**.

HC 199	HONORS WRITING FOR SCIENCE			3 UHC credits
CRN 11928	Section 001	MW 800 - 920	STAG 233	Hill, Eric
OR				
CRN 19599	Section 003	MWF 1000 - 1050	GILM 234	

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.* Satisfies **BCC, WR II AND equivalent to WR 327 for HHS majors.**

HC 199	HONORS WRITING FOR ENGINEERING			3 UHC credits
CRN 11929	Section 002	TR 800 – 920	STAG 233	Hill, Eric

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.* Satisfies **BCC, WR II AND equivalent to WR 327 for Engineers.**

HC 299	FAR SIDE ENTOMOLOGY			2 UHC credits
CRN 14726	Section 001	W 1800 – 1950	STAG 233	Burgett, Mike

Visit the humanistic side of entomology. The entomological cartoon as a paradigm for insect/human interactions; why is there such richness in insects? Satisfies **UHC Colloquia.**

HC 299	WRITING ABOUT MUSIC			2 UHC credits
CRN 16622	Section 001	R 1400-1550	STAG 233	Hill, Eric

Students will read reviews and analyses of various types of music (before and after listening to the pieces being analyzed). They will then be asked to respond to the effectiveness or limitations of the writing, as well as discuss their own responses to the music. Students will listen to performances (representing several genres) collectively, as well as report back from individual “field work.” They will be asked to write about the music they heard in various forms (description, review, analysis), explaining not only the characteristics of the music but how context affects their experience (live versus recorded, visual and other elements of the experience). Satisfies **UHC Colloquia.**

HC 299	OREGON OUTBACK TOUR	2 UHC credits
CRN 18006	Section 003 Sept. 22 - 25	STAG 233 Buckhouse, John

A four day trip into the Klamath Basin to look at geology, vegetation, management, ecological and sociological history. We will camp on and explore the Williamson River; the Klamath Wildlife Refuges; the Lava Beds (where we will explore lava caves, pukas (ecologically unique sites which have been protected from all uses by large expanses of rough lava) and the “Stronghold” (site of the Modoc War where a handful of Modoc Indians held off the US Army for an entire winter)); visit the petroglyph(ancient rock art) site on ancient Tule Lake; visit the World War II Japanese Internment site at Newell; and visit historic Fort Klamath on Agency Lake. Cadre will include professionals well versed in the region its geology, history, and management. The dates will be Wednesday through Saturday, the week prior to classes beginning for fall term. Individuals must be prepared for dramatic changes in weather from very cold to very warm, capable of and willing to participate in outdoor activities. Each individual will need to provide his/her own sleeping bag, backpacker-sized tent, and clothing. Satisfies **UHC Elective**.

HC 299	ORIENTATION FOR TRANSFER STUDENTS	1 UHC credit
CRN 18615	Section 005 R 1700-1850	STAG 233 Arp, Daniel
	Meets weeks 2, 4, & 6 only	

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. Satisfies **UHC Elective**.

HC 399	ENERGY STORAGE AND USE IN TRANSPORTATION	2 UHC credits
CRN 16804	Section 002 TR 1300-1350	GILK 108 Lerner, Michael

When we consider the limitations of current energy sources and man’s growing energy requirements, it is clear that major technological advances are required in our energy sector. The manner in which we bring energy needs and sources into balance will play a large role in defining global technology, economy and politics. Transportation is responsible for about 25% of all energy use, and for the large majority of our dependence on oil. It is clear that this industry must evolve. The problem is how to adapt current technologies while implementing new ones, and at the same time plan for new, revolutionary changes. In this class, we will explore some of the recent advances in vehicle propulsion, for example hybrid gas/electric, full electric and compression drives. We will discuss how energy storage relates to the ability to tap available energy sources, and examine in detail the strengths and limitations of the current technologies. Students will be asked to prepare two 20-minute presentations, and will write a research proposal. This is the first in a year-long series of Honors courses devoted to the energy theme. **PREREQ:** One year of college chemistry. Satisfies **UHC Colloquia**.

HC 399	INTRODUCTION TO MATHEMATICAL ECOLOGY	3 UHC credits
CRN 16623	Section 003 MF 1100-1150	WLKN 203 Bokil, Vrushali
	W 1100-1150	KIDD 108J

Mathematical methods are increasingly important in the study of ecological systems. This course will introduce mathematical models for applications in ecology and will be accessible for students who have completed first-year courses in differential and integral calculus (e.g. Math 251 and 252 or the equivalent).

We will study how differential and difference equations are used to model various ecological phenomenon including population growth, spread of infectious diseases, habitat fragmentation, competition between species and predator prey relationships, among others. We will also consider how uncertainty about different aspects of the process to be modeled can be incorporated into the model. The analysis of these models provides insights into the behavior of

LEADERSHIP LEARNING COMMUNITIES

Students may earn up to 3 credits to count as UHC Electives.

Registration override given after approval of signed **Learning Agreement**
Learning Agreements are available in the UHC main office

HC 409 **PRACTICUM/FORUM COORDINATOR** **1 UHC credit**
CRN 12315 Section 001

Duties include: Lead student groups interested in fostering student involvement either on campus or in the local community; carry out short-term community service projects; promote and recruit UHC students to be involved in projects; establish annual events involving a wide-range of skills and interests; serve as a student advisor to an OSU student group. Graded P/N. Satisfies **UHC Elective**.

HC 409 **PRACTICUM/LEADERSHIP AND MENTORING** **1 UHC credit**
CRN 12316 Section 002

This is an opportunity for students with advanced understanding to gain experience in group dynamics and management skills under the direction of a faculty member within their major. Duties vary by discipline. For example, the responsibilities may include: Assisting in course development; mentoring undergraduate students; managing student work groups; assisting students in the laboratory; proctoring exams. Graded P/N. Satisfies **UHC Elective**.

HC 409 **PRACTICUM/STUDENT LEARNING CENTER STAFF** **1 UHC credit**
CRN 12317 Section 003

Duties include: staff the Student Learning Center main desk three hours per week; oversee use of the computers, coach basic computer skills of the UHC students, answer the phone; maintain a positive learning environment; and assist the main office with basic tasks in the Student Learning Center/Computer Lab. Graded P/N. Satisfies **UHC Elective**.

HC 409 **PRACTICUM/THE CHRONICLE STAFF** **1 UHC credit**
CRN 12318 Section 004

Duties include: Work with a student committee and the Program Staff, organizing, editing, printing and distributing the UHC newsletter, The Chronicle. Graded P/N. Satisfies **UHC Elective**.

HC 409 **PATHWAYS SCHOLAR MENTOR PROGRAM** **1 UHC credit**
CRN 12330 Section 007

The Pathways Scholar Mentor Program provides an opportunity for honors students to help INTO Pathways students practice English conversation. 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 at the end of the term. Program information and application forms are available at <http://oregonstate.edu/dept/honors/pathways>. Students should meet with a UHC advisor to complete a Learning Agreement. Applications should be submitted to Candace (Candy) Pierson-Charlton with INTO in Heckert Lodge, who will schedule a 20 minute appointment prior to matching with a Pathway student. Graded P/N. Satisfies **UHC Elective**.

ME 311H	INTRODUCTION TO THERMAL AND FLUID SCIENCE			4 UHC credits
CRN 18610	Section 001	MW 0800-0850 F 0800-0950	STAG 237	Pence, Deborah

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. PREREQ: MTH 256/256H, ENGR 212/212H. Satisfies **UHC Elective**.

ME 373H	MECHANICAL ENGINEERING METHODS			3 UHC credits
CRN 18612	Section 001	TR 1000-1120	ROG 332	Squires, Nancy

The mathematical formulation of problems in a number of engineering areas including dynamics, heat transfer, thermodynamics, controls and electric circuits will be presented. Since the solutions of most ordinary and partial differential equations encountered in engineering modeling cannot be solved directly by analytic methods, numerical computer solutions will be discussed. PREREQ/COREQ: Math 256, and an introductory computer programming course in MATLAB (ENGR 112) or C++ (CS 161). Satisfies **UHC Elective**.

MTH 251H	DIFFERENTIAL CALCULUS			4 UHC credits
CRN 14050	Section 001	MWF 1400-1510	MFD 105	Swisher, Holly

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 **BCC, Mathematic**

MTH 254H	VECTOR CALCULUS I			4 UHC credits
CRN 14051	Section 001	MWRF 1000-1050	STAG 233	Parks, Hal
OR				
CRN 19625	Section 001	MWRF 1400-1450	STAG 107	Burton, Robert

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. Additional lab activities will be provided exploring interesting applications of Calculus to various disciplines. PREREQ: MTH 252 or 252H. Satisfies **UHC Elective**.

MTH 399H	INTRODUCTION TO MATHEMATICAL ECOLOGY			3 UHC credits
CRN 16841	Section 003	MF 1100-1150 W 1100-1150	STAG 132 STAG 132	Bokil, Vrushali

Crosslisted with HC 399. See HC 399 for course description. PREREQ: MTH 252. Satisfies **UHC Elective**.

PHL 205H	ETHICS			4 UHC credits
CRN 18650	Section 001	MW 1600-1750	MLM 033	Kaplan, Jonathan

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 **BCC, Western Culture**.

PHL 325H	SCIENTIFIC REASONING			4 UHC credits
CRN 18651	Section 001	MW 1200-1350	STAG 233	Kaplan, Jonathan

What makes science science? That is, what separates what we call the sciences from all the other forms of human inquiry? While part of the answer no doubt has to do with the subject matter of science, part of it surely has to do with methodology or the style of reasoning that is employed in the sciences. Or perhaps we would do better to say the methodologies and styles of reasoning employed in the sciences... In this course, we will explore various aspects of what is usually meant by ‘the scientific method’ (or scientific methods) and some of the kinds of reasoning that go into scientific research programs. We will discuss what separates ‘science’ from ‘non-science’ as well as what separates good science from mediocre or down-right bad science, and of course, why these distinctions matter. As part of this, we will read historical case studies, legal decisions, and recent work by philosophers of science. Satisfies **BCC, Science, Technology, and Society**

PHL 399H	VARIETIES OF FRIENDSHIP			2 UHC credits
CRN 18652	Section 001	T 1200-1350	STAG 237	Campbell, Courtney/ Roberts, Lani

Friendship is a foundational relationship in human life. Some of us have friends we’ve known for years and years and others of us form new friendships at different times of our lives. And, it seems there are different kinds of friendships too. There seem to be friendships of pleasure, utility and virtue, as Aristotle noted some twenty-five centuries ago. Some people call anyone with whom they have any kind of regular contact a friend, however others reserve this term for a very special and particular kinds of relationship. What is friendship? Why is it important to us? Has the idea of friendship changed in contemporary society, especially given the role that social networking sites such as Facebook and My Space play today? Satisfies **UHC Colloquia**.

PS 399H	PRINCIPLES OF POPULATION THEN & NOW: FROM MALTHUS TO SUSTAINABILITY			2 UHC credits
CRN 16620	Section 001	W 1000 – 1150	BEXL 211	Hall, Roberta Clinton, Richard

Crosslisted with ANTH 399H. See ANTH 399H for course description. Satisfies **UHC Colloquia**.

SOC 204H **INTRODUCTION TO SOCIOLOGY** 3 UHC credits
CRN 17732 Section 001 WF 1400-1520 STAG 233 Barker, Kristin

To learn about sociological concepts and research methods, students in this class read about and discuss a wide range of topics including 1960s student activism, 21st century consumerism, and contemporary lives of the working poor. Class sessions are highly interactive and students develop collaborative research projects with the professor and other students. In addition to learning sociological content, students receive help with the development of their writing and class-presentation skills. Satisfies **BCC, Social Processes & Institutions**.

TCE 408H **SUNDOWN TOWNS ON THE OREGON COAST** 2 UHC credits
CRN 19039 Section 001 T 1400-1550 STAG 233 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. A day-trip to Sundown Towns along the Oregon coast and a phone conference with James Loewen, author of the required text, Sundown Towns: A Hidden Dimension of America's Racism, will be included in the course. **Class meets Sept. 28, Oct. 12, Oct. 19 Field Trip, Nov. 2, Nov. 16 Nov. 30 only.** Additional \$12 field-trip fee. Satisfies **UHC Colloquia**.

Z 499H **CLIMATE CHANGE IN OREGON: PATTERNS & ADAPTATIONS** 1 UHC credit
CRN 18614 Section 001 R 1600-1650 STAG 233 Hixon, Mark

In Fall 2010, the first "Oregon Climate Assessment" will be released by a consortium of scientists. Mandated by the State legislature, this report will be the first detailed document of expected shifts in climate in the state of Oregon during this century, including ramifications for freshwater availability, agriculture, forestry, fisheries, wildlife, marine ecosystems, economics, and other human dimensions. Following introductory lectures on the causes and mechanisms of climate change, this colloquium will review and discuss this timely and important assessment in terms of how individual citizens can adapt to the forthcoming effects of climate change. Satisfies **UHC Colloquia**.

*** The UHC routinely shares information with Honors Students via campus e-mail. In order to have the latest information, students should make sure they are on the Honors ListServ, and read their e-mail on a regular and frequent basis. Changes to the above schedule will be forwarded via e-mail.*