

ANTH 399H	PRINCIPLES OF POPULATION THEN & NOW: FROM MALTHUS TO SUSTAINABILITY			2 UHC credits
CRN 17073	Section 001	W 1000 – 1150	STAG 237	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 340H	FINANCE			4 UHC credits
CRN 16630	Section 001	MW 1000 – 1150	STAG 233	Romero, Madeleine

Google first offered its stock to the public at \$100 per share in August 2004. By November 2007, the stock was trading at \$747 per share! What drives spectacular meteoric rises (or crashes) in stock prices? Discover how financial fundamentals, cash flow expectations, economic issues, market psychology and other factors impact stock prices. Assess a security's risk relative to return profile.

Understand and relate valuation fundamentals to stocks as well as bonds and capital assets. Learn the basics of financial decision-making -- including investment, financing, working capital management and financial analysis. ***Apply this knowledge to actual companies using real-time Internet data and practical case analyses.*** Explore sophisticated ways to analyze corporate investment projects utilizing Excel spreadsheet models. Polish your business communication skills for success in the workplace. Regardless of your major, you will take away valuable tools to understanding the financial management of companies—perhaps your own future company or the company where you'll work after you start your career. **PREREQS:** (BA 213 or BA 215 or BA 215H). This course serves as a substitute for BA 360 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 17472	Section 001	T 1600 - 1650	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 16422	Section 001	MF 1600 - 1650	CORD 3121	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 15352	Lecture Sec. 001	MWF 1000 – 1050	MLM 026	Blaustein, Andrew/ Fowler, Steve
OR				
CRN 15351	Lecture Sec. 002	MWF 1300 – 1350	MLM 026	
	<u>SIGN UP FOR ONE OF THE LAB/401H PAIRS BELOW</u>			
CRN 15353	Lab Section 010	T 800 – 1050	WNGR 228	Rajagopal, Indira
AND				
BI 401H				
CRN 13637	Add'l Lab Sec. 001	T 800 – 1050	WNGR 228	Rajagopal, Indira
OR				
CRN 17767	Lab Section 020	T 900 – 1150	CORD 2089	Denver/Taylor
AND				
BI 401H				
CRN 17768	Genomics lab Sec. 002	T 900 – 1150	CORD 2089	Denver, Dee/ Taylor, Barb
	(Limited to First-year and Sophomore students, <u>by application only</u>)			

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 \$20 fee. PREREQS: General Chemistry (may be taken concurrently). Satisfies **BCC, Biological Science**.

BI 401H – Genomics Lab, Section 002 This laboratory is part of an innovative and inquiry-based program to find and identify new viruses of bacteria. In this laboratory, students will collect local samples to find a bacterial virus, which they will then grow up and isolate and prepare DNA so that its genome will be sequenced and then students will work to annotate the sequenced genome for comparison with other viral genomes. At the end of this laboratory, we anticipate that the OSU students in the laboratory will be able to enter their newly discovered viral genome into a national database of sequences and to have completed the first analysis of the genes in their virus. Students in our course will be able to interact by a web-based wiki with students and faculty at the other institutions during the course of the program. Lecture, Lab, and additional Lab research credit BI 401H total 5 OSU credits. Additional \$20 fee. *Contact the Biology department for registration, which is by application only.* PREREQS: General Chemistry (may be taken concurrently). Satisfies **BCC, Biological Science**.

BI 314H	CELL AND MOLECULAR BIOLOGY			1 UHC credit
CRN 17794	Lecture Sec. 001	MWF 1600 – 1650	CORD 1109	Rajagopal, Indira
AND				
CRN 17795	Recitation Sec. 001	R 1000 – 1050	EDUC 317	Rajagopal, Indira

Fundamental concepts of prokaryotic and eukaryotic cell biology. Emphasizes cell structure and function at the molecular level. This 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 and recitation total 4 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**.

BIOE 101H	CHE, BIOE, AND ENVE ORIENTATION			2 UHC credits
CRN 16635	Lecture Sec. 001	M 1400 – 1450	DEAR 118	Rocheftort, Skip
<u>AND</u>				
CRN 16636	Recitation Sec. 010	F 1400 – 1550	KEAR 112	Rocheftort, Skip
<u>AND</u>				
CRN 16637	Lab Section 020	W 1300 – 1450	GRAF 210	Rocheftort, Skip

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 <u>one</u> of the corresponding recitation & lab sections ****			
CRN 14192	Lecture Sec. 001	MWF 1200 - 1250	GILB 124	Kong, Wei
<u>AND</u>				
CRN 14193	Rec. & Lab 010	T 1400 – 1750	BAT 150/GBAD 209F	Haak, Margie
<u>OR</u>				
CRN 14249	Rec. & Lab 011	R 1400 – 1750	ROG 440/GBAD 209F	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 <u>one</u> of the corresponding lecture/lab sections ****			
CRN 14196	Lecture Sec. 010	T 1300 – 1350	GBAD 409	Firpo, Emile/ Loeser, John
CRN 14197	Lab Section 011	T 1400 – 1650 R 1300 – 1650	GBAD 409	Firpo, Emile/ Loeser, John
<u>OR</u>				
CRN 14198	Lecture Sec. 020	W 1300 – 1350	GBAD 409	Firpo,Emile/ Loeser, John
CRN 14199	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 14857	Lecture Sec. 001	T 1300 – 1350	GBAD 309	Gupta, Manish/ Pastorek, Christine
AND				
CRN 14923	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 14200	Lecture Sec. 001	M 1300 – 1350	GBAD 211	Watson, Philip / Pastorek, Christine
AND				
CRN 14858	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**.

CHE 101H	CHE, BIOE, AND ENVE ORIENTATION			2 UHC credits
CRN 14977	Lecture Sec. 001	M 1400 – 1450	GLSN 200	Rochefort, Skip
AND				
CRN 14978	Recitation Sec. 010	F 1400 – 1550	GLSN 200	Rochefort, Skip
AND				
CRN 14979	Lab Section 020	W 1300 – 1450	GRAF 210	Rochefort, Skip

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 CHE 101H. Additional \$25 fee. Lecture, Rec and Lab, total 3 OSU credits. Satisfies **UHC Elective**.

COMM 218H	INTERPERSONAL COMMUNICATION			3 UHC credits
CRN 17076	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**.

ENGR 211H	STATICS			3 UHC credits
CRN 16002	Lecture Sec 001	MW 1300-1350	ROG 440	Zaworski, Joseph
CRN 16003	Recitation Sec 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**.

ENGR 399H	THE RESPONSIBLE ENGINEER			2 UHC credits
CRN 18440	Section 001	W 1400-1550	MFD 105	Funk, Kenneth

The idea of responsibility and the ethical responsibilities of the engineer. Introduction to axiology (the study of value), including the concept of value, types and nature of value, and normative theories of value (ethical systems). Engineering as value creation and the ethical ramifications of engineering practice and engineering products. Codes of engineering ethics. Recognizing and addressing ethical dilemmas in engineering. Psychological, social, and environmental impacts of engineering and technology. Satisfies **UHC Colloquia**.

ENVE 101H	CHE, BIOE, AND ENVE ORIENTATION			2 UHC credits
CRN 16638	Lecture Sec. 001	M 1400 – 1450	DEAR 118	Rocheftort, Skip
AND				
CRN 16639	Rec. Section 010	F 1400 – 1550	KEAR 112	Rocheftort, Skip
AND				
CRN 16640	Lab Section 020	W 1300 – 1450	GRAF 210	Rocheftort, Skip

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 ENVE 101H. Additional \$25 fee. Lecture, Rec and Lab, total 3 OSU credits. Satisfies **UHC Elective**.

ENVE 299H	WATER: POLICY, TECHNOLOGY AND CULTURE IN LATIN AMERICA			2 UHC credits
CRN 18470	Section 001	F 1400-1550	GLSN 100	Kelly, Christine

Catalog Description: Water policy, technology and culture in Latin America from colonial times to the present. Impact of technology, privatization, gender and political systems on water distribution, use, and sanitation. Satisfies **UHC Colloquia**.

FOR 399H	FOREST REGENERATION			2 UHC credits
CRN 18578	Section 001	MW 1000-1050	PVY 242	Rose, Robin

For 5000 years humans have been expert at cutting forests down for wood, mining and agriculture, but less adept at putting forests back. The world loses around 9.8 million hectares of forest every year and deforestation is one of the great silent scourges of the third world. Forest regeneration is part of the silviculture branch in forestry. It combines multiple perspectives from botany, ecology, soil science, plant physiology, statistics, law, and more. This course includes exposure to forest regeneration and resource management concepts that apply in Oregon and around the world. We will all try to leave our resource agendas at the door. This course has a \$41.00 fee to cover three field trips. Satisfies **UHC Colloquia**.

GEO 399H **GLOBALIZATION, SUSTAINABILITY AND POVERTY** 2 UHC credits

CRN 18436 Section 001 M 1400-1550 WLKN 231 Cook, Steve

The world is moving in the direction of more and more interconnectedness. But, even while the “average” living standard of the world’s peoples is increasing due to this *Globalization*, it isn’t increasing equally at all levels. The rich are getting richer, while the number of people living in *Poverty* increases. Is this a cause and effect situation, or merely a correlation? And the real issue is the long term *Sustainability* of the Earth’s systems upon which we depend—Sustainability. How do these three topics, often studied very separately come together . . . or perhaps they don’t. Students will take a position on these three issues, either that they are trending in a positive direction or the opposite. Then a “positive” student will be paired with a “negative” student, and choose a region of the world. A four iteration paper will result. In class we’ll discuss the issues raised in the papers. In addition we’ll have some guest speakers on associated topics. There are no exams. Satisfies **UHC Colloquia**.

HC 199 **HONORS WRITING FOR SCIENCE** 3 UHC credits

CRN 11977 Section 001 MW 800 - 920 STAG 233 Hill, Eric

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 11978 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 14933 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 17079 Section 001 W 1200 - 1350 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 19173 Section 003 Sept. 21 - 24 STAG 233 Arp, Dan

Geology, history, soils and management of the Oregon High Desert all come together on a tour of the remote regions of SE Oregon (Malheur Wildlife Refuge, Steens Mountain, Pete French Round Barn Historic Site, Kiger Mustang Overlook. Your guides will be the Dean of the University Honors College and two nationally respected rangeland ecologists. The course consists of a four day outing where we camp and prepare our own meals. Students will complete reading assignments prior to the trip. A short synopsis paper collating all aspects of the trip will be expected at the conclusion of the exercise.

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 399 **ENERGY STORAGE AND USE IN TRANSPORTATION** 2 UHC credits

CRN 17394 Section 002 TR 1300-1350 BEXL 211 Lerner, Michael

The Earth's limited energy sources and growing energy requirements pose a major technological problem for the future. The manner in which we address energy issues will help shape global technology, economy and politics. Transportation is responsible for about 25% of all energy usage. Practical solutions must utilize the technology available, but should also be designed to take advantage of future developments. In this class, we will explore the technology and impact of recent advances in vehicle propulsion, namely, via hybrid gas/electric, full electric and fuel cell drives. We will discuss how energy storage relates to the ability to tap available energy sources, and examine the strengths and limitations of the current technologies. Students will be asked to prepare a 30-minute seminar-style presentation, and will write a research proposal. **PREREQ:** One year of college chemistry. Satisfies **UHC Colloquia**.

HC 399 **INTRODUCTION TO MATHEMATICAL ECOLOGY** 2 UHC credits

CRN 17080 Section 003 TR 900 – 950 WLKN 203 Bokil, Vrushali

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 different phenomenon and suggests various strategies for conservation. We will also consider the numerical solution of different models and I will demonstrate different examples using the software MATLAB.

Students will have the opportunity to meet and hear from OSU faculty researchers in mathematical ecology, including members of the Ecosystems Informatics (EI) strategic initiative at OSU, who will introduce their research and present possibilities for further student involvement. There will be topical lectures as well as discussion of a pertinent paper each week. *Crosslisted with MTH 399H.* PREREQ: MTH 252. Satisfies **UHC Colloquia**.

HC 403 **INTRODUCTION TO THESIS** 1 UHC credit

CRN 11957 Section 001 R 1700 – 1850 OWEN 102/103 Arp, Dan/Hill, Eric

This course will introduce students to thesis expectations for the Honors Thesis, which is the capstone academic experience in the UHC. **The class will meet in three evening workshop sessions on Oct. 15, and Oct. 29, and Nov. 12.** This course is a mandatory component of the Honors Thesis and should be taken no later than the junior year. Graded P/N. Satisfies **UHC Intro to Thesis**.

HC 407 **GOD, PAIN, AND THE PROBLEM OF EVIL:
AN INTRO TO C. S. LEWIS** 1 UHC credit

CRN 18580 Section 003 W 1600 - 1650 STAG 329 Ferngren, Gary

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**.

LEADERSHIP LEARNING COMMUNITIES

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

Registration override given after approval of Learning Agreement

HC 409 **PRACTICUM/FORUM COORDINATOR** 1 UHC credit
CRN 12378 Section 001

Duties include: Lead student groups interested in fostering student involvement either on campus or to 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 12379 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 12380 Section 003

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

HC 409 **PRACTICUM/THE CHRONICLE STAFF** 1 UHC credit
CRN 12381 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**.

HDFS 447H **FAMILIES AND POVERTY** 4 UHC credits
CRN 18471 Section 001 MW 1600-1750 MLM 319 Richards, Leslie

This course will examine families in poverty with attention focused on the causes and consequences of family poverty, including global economic factors, migration patterns, and political/social crises. Included will also be an investigation of policies and programs for poor families, both within the United States and internationally. Over the course of the term, students in this class are required to complete 20 hours of community service at an agency that primarily serves low income individuals or families. Satisfies **BCC, Contemporary Global Issues**.

HST 425H	THE HOLOCAUST IN ITS HISTORY	4 UHC credits
CRN 18437	Section 001 TR 1200-1350	STAG 237 Kopperman, Paul

While this course deals in depth with the Holocaust, the subject that it addresses is significantly broader than that. The first third of the course is intended to provide background. This component addresses the common question, "How could it have happened?" One cannot intelligently address this question without being acquainted with the history of Antisemitism and with the fact that Jew-hatred spilled over into large-scale violence many times before the Holocaust was even imagined. After the section of the course that is devoted to the background of the Holocaust, the event itself will be examined during the following four to five weeks. The closing weeks of the course will deal with the issues of comparative genocide and of what (if anything) humankind has learned from the Holocaust. Satisfies **BCC, Contemporary Global Issues**.

HST 432H	HISTORY OF SEXUALITY	4 UHC credits
CRN 18636	Section 001 TR 1400-1550	STAG 237 Nye, Robert

This class examines the history of sexuality from the Greeks to the present. We will consider both change and continuity over this time, the influence of religion, society, science, and medicine on sexual beliefs and practices, and the interaction between sexual norms and the experience of sexual minorities. Satisfies **UHC Elective**.

MTH 251H	DIFFERENTIAL CALCULUS	4 UHC credits
CRN 14201	Section 001 MWF 1100 – 1150	KIDD 238 Higdon, Robert
CRN 18390	Rec. Sec. 010 W 1600 - 1650	GILK 115

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, Mathematics.**

MTH 254H	VECTOR CALCULUS I	4 UHC credits
CRN 14202	Section 001 MWRF 1000 – 1050	BAT 250 Parks, Hal

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** 2 UHC credits
 CRN 17453 Section 003 TR 900 – 950 WLKN 203 Bokil, Vrushali

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 different phenomenon and suggests various strategies for conservation. We will also consider the numerical solution of different models and I will demonstrate different examples using the software MATLAB.

Students will have the opportunity to meet and hear from OSU faculty researchers in mathematical ecology, including members of the Ecosystems Informatics (EI) strategic initiative at OSU, who will introduce their research and present possibilities for further student involvement. There will be topical lectures as well as discussion of a pertinent paper each week. *Crosslisted with MTH 399H.* PREREQ: MTH 252. Satisfies **UHC Colloquia**.

MUS 108H **MUSIC CULTURES OF THE WORLD** 3 UHC credits
 CRN 17083 Section 001 TR 1000 – 1120 STAG 233 Coolen, Michael

In a world where many cultures have no generic term for "music," where music-making is frequently a community activity rather than that of a specialist, and where differences in world view are reflected in their "music-making," the examination of non-Western music can be a valuable starting point in expanding our awareness of and appreciation for other cultures. Students will also learn by experience that "if you can talk, you can sing, and if you can walk, you can dance." Satisfies **BCC, Cultural Diversity**.

PH 221H **RECITATION FOR PHYSICS 211** 1 UHC Credit

Choose one Lecture section of your choice; see on-line General Catalog and Schedule of Classes

AND

Choose one Laboratory section of your choice; see on-line General Catalog and Schedule of Classes

AND

CRN 16641 Recitation Section 001 T 1100 - 1150 WNGR 304 McIntyre, David

Honors recitation reserved for UHC students enrolled in lecture/lab section 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. COREQ: PH 211. Satisfies **BCC, Physical Science**.

PH 222H **RECITATION FOR PHYSICS 212** 1 UHC credit

Choose one Lecture section of your choice; see on-line General Catalog and Schedule of Classes

AND

Choose one Laboratory section of your choice; see on-line General Catalog and Schedule of Classes

AND

CRN 14203 Recitation Sec. 001 R 1100 - 1150 WNGR 304 Jansen, Henri

Honors recitation reserved for UHC students enrolled in lecture/lab sections of PH 212. 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. COREQ: PH 212. Satisfies **BCC, Physical Science**.

PHL 160H **QUESTS FOR MEANING: WORLD RELIGIONS** 4 UHC credits

CRN 17623 Section 001 TR 1600 - 1750 STAG 233 Clough, Sharyn

A survey and analysis of the search for meaning and life fulfillment represented in major religious traditions of the world, such as Hinduism, Buddhism, Taoism, Zen, Confucianism, Judaism, Christianity, and Islam. The focus will be on the early history of each tradition. Contemporary treatment of these religious movements will be discussed in terms of their representation in Hollywood films and on the Internet. Satisfies **BCC, Cultural Diversity**.

PHL 207H **POLITICAL PHILOSOPHY** 4 UHC credits

CRN 18431 Section 001 MWF 1400 – 1450 STAG 233 Roberts, Lani

Honors Political Philosophy will examine the philosophical foundations of western democracy, including a contemporary theory of justice, coupled with critiques from perspectives of feminism and colonized people. We will also look at Marxism, philosophical anarchy, libertarianism, and the question of obligatory obedience to the law, contrasting Plato with Dr. Martin Luther King, Jr. Satisfies **BCC, Western Culture**.

PS 399H **PRINCIPLES OF POPULATION THEN & NOW:
FROM MALTHUS TO SUSTAINABILITY** 2 UHC credits

CRN 17074 Section 001 W 1000 – 1150 STAG 237 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 ANTH 399H*. Satisfies **UHC Colloquia**.

PS 399H **LAW AND CRIME IN FILM** 2 UHC credits

CRN 18433 Section 003 T 1800-1950 STAG 233 Inderbitzin, Michelle
Solberg, Rorie

During this course we will examine the basics of law and criminal justice from the perspectives of both Political Science and Sociology through the medium of film. After a week and a half of introduction, we will embark on an examination of some of the basic concepts of constitutional law and criminal justice as portrayed in film. Each week we will watch one film or one or more television episodes that will help us introduce the week's topic and reveal the "conventional wisdom" regarding the week's topic. These portrayals will be juxtaposed with reality through scholarly readings, lectures, and discussion. Using this method, we will uncover myths, biases, and errors in film portrayals and general knowledge of both constitutional law and criminal justice. By the end of the course, students will have a basic understanding of the rights of the accused and the criminal justice system. *Crosslisted with SOC 399H*. **PREREQS:** SOC 204 or SOC 204H. Satisfies **UHC Colloquia**.

