

Fall 2020 Corvallis HC BaccCore

ANS 121H **Introduction to Animal Sciences** 4 HC Credit(s)

CRN: 16585 Section 001 LEC TTh 800 - 920

AND

CRN: 16586 Section 010 LAB T 1200 - 1350

Instructor(s): Matthew Kennedy & Dawn Sherwood

Students will be exposed to the basic sciences and management related to raising and caring for domestic animals such as Beef, Dairy, Equine, Poultry, Sheep, Companion Animals and Swine. Additionally the current issues that impact animals will be discussed such as animal welfare, sustainability and many more. Labs include visits/field trips to the animal units here at OSU and local community with the opportunities to learn more basic daily care/focus along current research/happenings occurring at each site. **Course Fee: \$55. Satisfies: HC BaccCore - Biological Sciences**

ANTH 330H **Evolution of People, Technology, and Society** 3 HC Credit(s)

CRN: 19857 Section 001 LEC MWF 1400 - 1450

Instructor(s): Neal Endacott

Overview of the evolution and prehistory of the human species, including the development and interaction of human biology, technology, and society. **Satisfies: HC BaccCore - Science, Technology, Society**

BI 221H **Principles of Biology** 4 HC Credit(s)CRN: 20207 Section 001 LEC MWF 1300 – 1350
GRP MID*AND choose one LAB section*

CRN: 20208 Section 010 LAB W 1400 - 1650 Carmen Harjoe

CRN: 20209 Section 011 LAB Th 800 - 1050 Noah Silva de Leonardi

CRN: 20210 Section 012 LAB F 1400 - 1650 Noah Silva de Leonardi

Origins of life, energy transformations, plant and animal diversity. **Course Fee \$29. Satisfies: HC BaccCore - Biological Sciences**

BI 306H Environmental Ecology

3 HC Credit(s)

CRN: 19859 Section 001 LEC TTh 1400 - 1520

Instructor(s): Kate Lajtha

Students will be introduced to the biological, physical, and chemical nature of both natural and human-disturbed communities; we will stress ways in which humans have altered terrestrial and aquatic ecosystem structure and function. Writing assignments will focus on the different writing styles used in the environmental sciences, including a scientific essay on an environmentally sensitive topic and a longer library research paper. Several drafts of each assignment are required as a means of improving writing styles. In addition, students will write reflections on topics discussed in class and from the readings; these are required, but will not be graded. Part of the point of this course is to focus on topics that are of interest to the class, so the course outline, and each day's topic, is relatively open. This means that discussion and argument is critical! Student voices are what make this class interesting! **Satisfies: HC BaccCore - Contemporary Global Issues**

CH 231H Honors General Chemistry

4 HC Credit(s)

CRN: 15299 Section 001 LEC MWF 1200 - 1250

Mike Lerner

AND choose one REC section

CRN: 15301 Section 010 REC T 1100 - 1150

Mike Lerner

CRN: 15302 Section 011 REC Th 1400 - 1450

Mike Lerner

*AND choose one CH 261H LAB section***CH 261H Laboratory for Honors General Chemistry**

1 HC Credit(s)

CRN: 13970 Section 010 LAB T 1200 - 1450

Michael Burand

CRN: 13971 Section 011 LAB Th 1500 - 1750

Michael Burand

Instructor(s):

This first course in a General Chemistry sequence is 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. \$30 fee for the laboratory section. CH 231H must be taken simultaneously with CH 261H OR CH 271 (if students elect to take the CH 271 lab instead of CH 261H, the credit earned for the lab will not count toward Honors College requirements). **Must be taken concurrently with CH 231H.** PREREQS: MTH 111 OR MTH 112 OR MTH 251/251H OR MTH 252/252H OR MTH 254/254H (all can be taken concurrently). COREQ: CH 261H OR CH 271. **Course Fee \$30. Satisfies: HC - BaccCore Physical Sciences**

ED 216H Purpose, Structure, & Function of Education in a Democracy

3 HC Credit(s)

CRN: 18166 Section 001 LEC MWF 1000 - 1050

Instructor(s): Mike O'Malley

Introduction to the historical, philosophical, political, legal, and economic foundations of education in Oregon, the United States, and other countries in order to provide a framework from which to analyze contemporary educational and environmental issues in various schools, communities, and workplaces. **Satisfies: HC BaccCore - Difference, Power, and Discrimination**

ENG 275H *The Bible as Literature*

4 HC Credit(s)

CRN: 18161 Section 001 LEC TTh 830 - 950

Instructor(s): Gilad Elbom

Emphasizing diversity rather than unity, the Bible is a vast collection of literary genres: stories, poems, genealogies, biographies, prophecies, aphorisms, laws, letters, and many other styles. This class will focus primarily on biblical narrative. Paying attention to a variety of literary techniques, we will try to address the complexity and richness of the Bible rather than reduce it to one truth, a single message, or important lessons. In other words, our approach will be analytical rather than didactic. We will try to broaden and deepen our understanding of the Hebrew Bible and the New Testament through a careful reading of the text and a close inspection of biblical scholarship and other related texts. Ultimately, we will try to approach the Bible from as many perspectives as possible: literary, political, theological, anthropological, linguistic, historical, psychological, philosophical, feminist, structural, postcolonial, and other points of view. **Satisfies: HC BaccCore - Literature and the Arts OR Western Culture**

GEOG 300H *Sustainability for the Common Good*

3 HC Credit(s)

CRN: 18486 Section 001 LEC W 1800 - 2050

Instructor(s): Demian Hommel

“It can be said without hyperbole that sustainability is the quintessential interdisciplinary topic of study, for over the course of the next few decades, every academic discipline will have to respond to the paradigm of more sustainable life practices that is beginning to arise...it exceeds any other in breadth and depth of its dimensions...” -D. Klahr

This course is designed to familiarize you with the cultural, ecological, economic, and socio-political factors which impact our lives on this planet. But this won't be a typical class: I'm not the composer of any of the course information. Instead, I consider myself to be an “academic dj,” and this course will be a re-mix of information about “sustainability,” which means different things to different people. My method is to present some of the findings, ideas, and opinions about sustainability to show you a bit of what we're losing, what's possible, and to allow you to examine your own ethics and way of life.

We're not going to think about “sustainability” as a buzzword or a fad. Rather, it is likely to be an overarching theme that governs the lives of future generations. Sustainability, then, is both a topic of study and a way of life. In order to understand this, we need to focus on the big picture. (I'm not going to convince you that you should eat less meat or try and grow your own food—you probably should, even for many non-sustainable reasons. Instead, we're going to use the “overview perspective” to look at the world we live in, it's challenges and opportunities). However, as the course progresses, it will become more about each of us, our decisions, hopes, fears, dreams, and what kind of future we might live in, or which one we will try and create.

A Venn diagram will be our organizing schematic, based on three spheres:

- 1) Planet – maintaining the earth's life support system (e.g., ecosystem services).
- 2) People – maintaining community (civic) capacity that fosters effective participation and 'equitable' treatment of all stakeholders.
- 3) Profit – maintaining an economic system that provides a non-declining standard of living for this and future generations.

The Common Good: What is the “common good?” People define this in different ways, but for our purposes we'll simply assume that the common good are those who we may never see or communicate with, but who benefit from our action/s (or inaction/s). RESTRICTIONS: minimum of junior standing required. **Satisfies: HC BaccCore – Contemporary Global Issues**

H 333H Global Public Health 3 HC Credit(s)

CRN: 19860 Section 001 LEC TTh 1000 - 1120

Instructor(s): Sunil Khanna

Introduction to the field of global health, its history, methods, and key principles; understanding global health inequities through case studies; overview of major global health intervention programs. **Satisfies: HC BaccCore - Social Processes and Institutions**

HC 199 Honors Writing 3 HC Credit(s)*Choose one LEC section*

CRN: 11040 Section 001 LEC MWF 900 - 950

CRN: 11041 Section 002 LEC TTh 1200 - 1320

CRN: 13518 Section 003 LEC TTh 1000 - 1120

Instructor(s): Eric Hill

Becoming a critical reader and thinker promotes clear writing and verbal communication. You will hone your skills in a discussion/debate format, along with frequent in-class writing assignments and presentations. You will also further develop your abilities to be a critical reader. We will be examining texts from many disciplines and on a variety of topics; you will also bring in examples for discussion. The research paper, which includes both formal documents and informal writing, will focus on an ethical/controversial issue or current research within your discipline; this will include field and library research. PREREQS: WR 121/121H. **Satisfies: HC BaccCore - Writing II**

HST 201H History of the United States 4 HC Credit(s)

CRN: 19883 Section 001 LEC TTh 1400 - 1550

Instructor(s): Ben Mutschler

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

HST 385H The Arab-Israeli Conflict 4 HC Credit(s)

CRN: 19884 Section 001 LEC TTh 1200 - 1350

Instructor(s): Itamar Dubinsky

Examination of the origins of the Arab-Israeli conflict and subsequent efforts to find a lasting solution. **Satisfies: HC BaccCore - Contemporary Global Issues**

MTH 251H Differential Calculus

4 HC Credit(s)

*Choose one LEC section. **Note:** MTH 251H does not have a recitation. That hour is included in the lectures.*

CRN: 12010	Section 001	LEC	MW 1200 - 1350	Roy Haggerty
CRN: 14870	Section 002	LEC	MW 1000 - 1150	Sara Clark
CRN: 15933	Section 003	LEC	MW 800 - 950	Mary Beisiegel

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. PREREQS: MTH 112 or MTH 150X. Sufficient test scores may waive MTH 112 PREREQ.

Course Fee \$10. Satisfies: HC BaccCore - Mathematics

MUS 102H History of Rock & Roll

3 HC Credit(s)

CRN: 13623	Section 001	LEC	MWF 1200 - 1250
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Instructor(s): Ryan Biesack

This survey is a selected examination and study of musical and social events that have occurred in popular culture over a period of roughly the past 50 years, and what has come to be known generally as “Rock” music. The survey will begin its journey looking at the 1950s and the beginnings of Rock music and conclude with the Rock culture of today. The term “Rock” music will be used as an umbrella or generic term to cover the many variations of popular music that fall under its reach: Motown, Soul, R&B, Disco, Acid Rock, Death Metal, Thrash Metal, Punk Rock, Indy Rock, Grunge, etc. As there are numerous artists and performers who have contributed to Rock music, this survey will focus on a selected group who have significantly changed, or illustrate the change, in Rock music. This course will examine some of the pinnacle recordings, repertoire, artists, concerts, performances, and events to provide insight and meaning as to “how” and “what” this music was changing within pop culture in a historical and social context. By examining different works of Rock music, we can hope to extrapolate broader meaning and understanding of these events in an overarching sense relative to recent history. This course will also examine how Rock music has functioned as a vehicle for commentary on everything from sex to religion to politics, and how this music continues to be a relevant and ever changing vehicle in the present day. **Satisfies: HC BaccCore - Literature and the Arts**

NMC 101H Introduction to New Media Communications

3 HC Credit(s)

CRN: 19887	Section 001	LEC	MW 1800 - 1920
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Instructor(s): Daniel Faltesek

Principles of new media communications. Perspectives on the communications media. How the communications media operate and how they interact with society. **Satisfies: HC BaccCore – Social Processes and Institutions**

PAC 293H Interdisciplinary Yoga: Mindfulness Skills

1 HC Credit(s)

CRN: 16334

Section 001

ACT

Th 1200 – 1450

Meets weeks 1-5 only.

Instructor(s): Tsipora Berman

Journey to the seen and the unseen through a multi-sensory, interdisciplinary, transformative study of mindfulness utilizing a fun, creative variety of individual and group mind/body practices applicable to everyday life and across academic disciplines. Develop your own imagination, intuition, inspiration, integration, and interpretation including 15 sensory perceptions to live to your highest potential with resilience to navigate the challenges of personal and professional endeavors. You will unravel the mysteries of why the 8,000-year-old science of Yoga is all encompassing, integrated with Positive Psychology, Physics, Neuroscience, Human Biology, and grounded in the eight-part awakening process. From STEM to Liberal Arts, from Education to Sports, from Political Science to World Health, students from any discipline will co-create a research-based platform from which to expand self-awareness to support your particular contribution to the world.

This course is designed to introduce students to the practice and understanding of interdisciplinary yoga with a focus on mindfulness skills. The style of yoga presented in this course originated in India thousands of years ago. It is one of the oldest systems for personal development in the world, encompassing body, mind and spirit. This course is an integrated, experiential, multisensory study of mindfulness principles through the experience of the basic level 1 Yoga postures, various forms of meditation, breathing practices, reflection and sharing. Based on broad, all welcoming, practice of Kripalu Yoga, experience the smoothness of vinyasa flows, the intensity of holding postures and the freedom of your own personal style: Asana, Breath, and Meditation all happen simultaneously.

Each class will include: Coming into the present moment by centering the body, mind, and breath. Warm-up exercises that synchronize breath with movement, as means of inducing concentration and preparing the body. Creative asana sequences designed to stretch, strengthen and balance the body including standing and balancing, forward and back bending, spinal twists, lateral bends and inversions. Classes often include meditation-in-motion; classes close with integration through relaxation and meditation. **Meets weeks 1-5 only. Course Fee: \$49. Satisfies: HC BaccCore - Fitness**

PAC 325H Wilderness First Aid

1 HC Credit(s)

CRN: 17104

Section 001

ACT

Th 1100 – 1250

Required all-day field trip Saturday, November 14th.

Instructor(s): Sheila Evans

Crunch! Ugh... Ouch! Do you recreate with accident-prone friends or family? Do you spend any time playing in the outdoors? Knowing the fundamentals of emergency care in non-urban environments are useful skills. Backcountry emphasis with long-term care and evacuation complications makes this course unique. There will be a number of outdoor sessions so come prepared with "grubby" clothes that will get dirty or fake-bloody. The course has two components: knowledge as evidenced by performance on written exams and quizzes, and practical skills as demonstrated throughout the course and on the final exam.

This course covers the fundamentals of emergency care in a non-urban environment, including physiology, injury assessment, short term care, anatomy, and small group rescues. While much of the material appears to be standard emergency care information, the backcountry emphasis with long-term care and evacuation complications makes this course unique. **Required all-day field trip Saturday, November 14th. Course Fee: \$167. Satisfies: HC BaccCore - Fitness**

PH 212H General Physics with Calculus

4 HC Credit(s)

CRN: 18472 Section 001 LEC **MWF 1300 - 1350***AND choose one LAB section*CRN: 18473 Section 010 LAB **T 1600 - 1750**CRN: 18474 Section 020 LAB **T 800 - 950**

Instructor(s): Henri Jansen

A comprehensive introductory survey course intended primarily for students in the sciences and engineering. Topics include mechanics, wave motion, thermal physics, electromagnetism, and optics. Elementary calculus is used. **PREREQS:** PH 211/211H. **Satisfies: HC BaccCore - Physical Sciences**

PHL/REL 444H Biomedical Ethics

4 HC Credit(s)

*Choose either the PHL 444H section **OR** the REL 444H section, not both.***PHL 444H CRN: 13974 Section 001 LEC TTh 1200 - 1350****REL 444H CRN: 15680 Section 001 LEC TTh 1200 - 1350**

Instructor(s): Jonathan Kaplan

In this class, we will cover 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. **Satisfies: HC BaccCore - Science, Technology, Society**

PSY 201H General Psychology

4 HC Credit(s)

CRN: 19923 Section 001 LEC **TTh 1400 - 1550**

Instructor(s): Juan Hu

Scientific study of behavior and experience. Biological bases of behavior; sensation and perception; conditioning, learning and memory; thinking, problem solving, language, and consciousness; cognitive, personal and social development. **Satisfies: HC BaccCore – Social Processes and Institutions**

SUS 331H Sustainability, Justice, and Engagement 3 HC Credit(s)

CRN: 19890 Section 001 LEC TTh 1600 – 1720
Field trip during class hours Oct. 20, 2020

Instructor(s): Deanna Lloyd

Many sustainability crises are local, but set within larger societal systems, and the people most impacted tend to be groups already experiencing difference, lack of power, and discrimination. In this course, we examine transformational responses led by those most affected -- that address a sustainability issue while also building social and economic power for those affected. We will explore and analyze tools and tactics used by individuals and sustainability organizations to achieve positive changes. Emphasis will be on contemporary and historical U.S.-based examples. The first half of the term will involve investigating more personal aspects of sustainability and social justice work and then our focus will expand to four aspects of sustainability movements: Place Based Awareness, Visioning, Community Building, and Leadership. A goal of the course is for students to develop place-based awareness of environmental, economic and social aspects of sustainability where they live. Students will further explore their community and course concepts by participating in service-learning projects and engaging directly with community partners to address an authentic, community-identified need. **Field trip during class hours Oct. 20, 2020. Satisfies: HC BaccCore - Difference, Power, and Discrimination**

WR 121H English Composition 3 HC Credit(s)

CRN: 15774	Section 001	LEC	TTh 830 - 950	Clare Braun
CRN: 16335	Section 002	LEC	MWF 900 - 950	Elizabeth Delf
CRN: 17106	Section 003	LEC	MWF 1200 - 1250	Tim Jensen

Introduction to critical thinking, the writing process, and the forms of expository writing. Intensive writing practice, with an emphasis on revision. **WR 121H is not restricted by last name. Satisfies: HC BaccCore - Writing I**

WR 327H Technical Writing 3 HC Credit(s)

CRN: 18162 Section 001 LEC MWF 1600 - 1650

Instructor(s): Emily Elbom

Continued practice in writing with an emphasis on the rhetorical and critical thinking demands of writers in scientific and technological fields. PREREQS: WR 121/121H. RESTRICTIONS: Minimum of sophomore standing required. **Satisfies: HC BaccCore - Writing II**

Fall 2020 Corvallis HC Colloquia

BB 407H ***Learn to Love Your Lying Eyes (and Brain)*** 2 HC Credit(s)

CRN: 19858 Section 001 SEM W 1400 - 1550

Instructor(s): Kenton Hokanson

We humans can pick a single voice out of a noisy room, instantly recognize a childhood friend, and easily read messages in words. Our brains are amazing! Why, then, was the world briefly paralyzed in 2015, when we couldn't even agree whether "The Dress" was white and gold or blue and black? The answer is that our brains are messy, complicated machines, remarkably good at many things, but easily fooled by others. In this class, we will explore sensory illusions that reveal the limits of our brains, then discuss research in neuroscience and psychology that helps explain our experiences. We will practice analyzing and creating scientific writing, and presenting it to peers. Finally, we will reflect on how our knowledge of our brains' imperfections can inform our approach to the debates and challenges of society today. This course will be a fun and active introduction to our human brains. It assumes no previous neuroscience or biology coursework. **Graded: P/N. Satisfies: HC Colloquia**

ENSC 407H / ***Introduction to Traditional Ecological Knowledge*** 2 HC Credit(s)
HC 407*Choose either the ENSC 407H section OR the HC 407 section, not both.***ENSC 407H CRN:** 17543 **Section** 400 online**HC 407 CRN:** 17542 **Section** 401 online

Instructor(s): Samantha Chisholm Hatfield

The goal of this course is to understand Traditional Ecological Knowledge (TEK) and sustainability practices from a Native American perspective, focusing on the Pacific Northwest but also addressing other Tribes nationally. The emphasis will be on techniques the Siletz have implemented and continue utilizing, but we will also incorporate other techniques from tribal perspectives in local and national areas, as well as how these utilizations coincide with agencies on local, state, and federal levels. This class will focus on how state and federal guidelines, laws, and regulations affect and implement tribal policies and tribal members. This course promotes TEK as a viable sustainability technique and teaches students and community members about further understanding TEK, in cooperation through agencies and policies such as treaties and NAGPRA on Indigenous lands, traditional areas, and cultural practices. **This is an Ecampus course. Tuition rates for Ecampus courses are different than on-campus courses and can be found at ecampus.oregonstate.edu/services/tuition.** **Satisfies: HC Colloquia**

HC 299 ***Farside Entomology*** 2 HC Credit(s)

CRN: 14044 Section 001 SEM W 1800 - 1950

Instructor(s): Michael Burgett

Farside Entomology 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 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: HC Colloquia**

HC 299***Building Hope: International Service Learning - Culture***

1 HC Credit(s)

CRN: 16786 Section 002 SEM Th 1500 – 1550

Instructor(s): Dave Kovac

The Building Hope program features one colloquium each term that's focused on a different aspect of international service learning, as well as an optional international service learning trip during spring or summer break. The goals of the overall program are to help students gain an appreciation and understanding of the complexities of service work in international communities while encouraging students to consider "internationalizing" their academic coursework or Honors Thesis. This particular colloquium focuses on the concept of culture – interpreting the cultural contexts and consequences of international service strategies, programs, and projects. The colloquia for other terms focus on team skills and impact of service learning. The colloquia can be taken at any time and do not need to be taken as a series or in any particular order. Taking one of the three colloquia serves as a pre-requisite to the Service Trip Experience that takes place during spring or summer break. To date, our trips have been to Romania, Ethiopia, Vietnam, Nepal, and North Macedonia. **Satisfies: HC Colloquia**

HC 407***Writing About Music***

2 HC Credit(s)

CRN: 16414 Section 001 SEM MW 1200 - 1250

Instructor(s): Eric Hill

This class will focus on how we attempt to use words to discuss something that works outside of language. Does music defy description? Is it possible to employ concrete terms for something that, for many, remains abstract and/or subjective? Is writing about music like dancing about architecture? You will be asked to examine and respond to music and texts about music. Through in-class discussions, presentations, and assignments, you will discuss what you see as the values and limitations of these texts, as well as how they compare with your own written attempts to react to music. Much of the material you will be listening to and writing about will come from pieces that you bring in (some of it will be music that I subject you to). You will be writing about music through various forms of expression (description, review, analysis), explaining not only the characteristics of the music but also how context can affect your experience (live versus recorded, instrumental versus lyrics, visual components, etc.). You are not required to play an instrument or to know music theory, but we will go over some theoretical terms that may provide you with some basic vocabulary. **Graded: P/N.**
Satisfies: HC Colloquia

HC 407***Toy-Based Technology for Children with Disabilities***

2 HC Credit(s)

CRN: 15689 Section 002 SEM T 1400 - 1550

Instructor(s): Sam Logan

This is a 'hands-on' and 'brains-on' course where students will gain skills and knowledge through real-world experience and the reading and discussion of current scientific research related to core course topics. This experience will be driven through engagement with the Go Baby Go (GBG) program. GBG is a community-based outreach program that works with families, clinicians and industry to provide modified ride-on toy cars to children with disabilities to use for fun, function, and exploration. <http://health.oregonstate.edu/gobabygo>. Students will gain the necessary technical skills such as cutting PVC pipe and basic wiring. The technical skills and scientific research will be open and accessible to all students, regardless of previous background or experience. **Satisfies: HC Colloquia**

HC 407 Leadership and Positive Psychology

2 HC Credit(s)

CRN: 14248 Section 003 SEM M 1000 - 1150

Instructor(s): Don Johnson

This is why we are here. It makes sense to assume that people who possess a strong sense of personal wellbeing, and a perspective of optimism, are likely to create/support leadership solutions that have lasting effectiveness and support the wellbeing of others. Leadership is the creation of a solution to “something.” The solution could focus on anything from leading the development of a community event to addressing health care in third world countries. Positive psychology is “the scientific study of what makes life most worth living,” using a perspective of optimism and wellbeing as expressed in the PERMA Theory developed by Marty Seligman at the University of Pennsylvania. We will study the PERMA Theory and use its elements as a foundation for creating leadership solutions in a series of actual Case Studies. Your work is about thinking and thinking creatively. You will have one homework assignment, which is a research paper due at the beginning of finals week. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 Circular Economy: A Framework for Responsible Design

1 HC Credit(s)

CRN: 18151 Section 004 SEM W 1300 - 1350

Instructor(s): Shanna Ruyle

Explore what a Circular Economy is and could be through a designer lens. Try different methods that designers use to help design products and services that can help make a better world. You'll sketch, brainstorm and create to find your own insights and build your point of view of the Circular Economy.

- ▶ Learn method-based tools that can help you discover where we can best influence and create change for a product, service or business model.
- ▶ Use creativity-based approaches to imagine radically new solutions for a challenge you see—or a product you wish could be designed more responsibly.
- ▶ Explore key concepts and how your future roles and interests relate.
- ▶ Interact with people around the globe who are exploring how to make products and services with the Circular Economy in mind
- ▶ Take your ideas beyond the classroom to create a project, experience or creative endeavor to inspire yourself (or others).

Graded: P/N. Satisfies: HC Colloquia**HC 407 Race and Science**

2 HC Credit(s)

CRN: 16415 Section 005 SEM Th 1000 - 1150

Instructor(s): Thomas Bahde

This course considers the role of modern science and pseudoscience in shaping popular ideas about race and practices of racism from the 18th century through the early 21st century. For most of this time, mainstream scientific thought held that empirical determinations of racial difference provided for “natural” social organization, explained widespread discrimination, and justified global inequality, even as the meaning of race remained ambiguous in both popular and scientific discourse. We will be looking especially at how ideas about race are created and re-created at the intersection of popular culture, scientific communication, and institutional authority. The ultimate goal is a better understanding of the many meanings of race in our own historical moment – an era in which real-time genetic manipulation may soon be both possible and widely available, giving the concept of race yet other dimensions. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 *The Science of Art - The Art of Science*

1 HC Credit(s)

CRN: 14249 Section 006 SEM Th 1000 - 1050

Instructor(s): Randall Milstein

What do ballerinas and spiral galaxies have in common? Why is photography one of the pivotal inventions of human history? Is the Golden Ratio really a mathematical expression of beauty? This colloquium challenges the mindset that science and art are opposing endeavors, but instead suggests neither would be as powerful without the other since both require great imagination and creativity to be productive and move humankind forward. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 *American Identity in the World*

2 HC Credit(s)

CRN: 15676 Section 007 SEM MW 900 - 950

Instructor(s): Eliza Barstow

This class invites you to read about and discuss some of the key issues that have contributed to ideas about American identity in the world. As we engage with the class readings, we will constantly ask questions such as: How have people used the term “American” at different points in United States history? Who has been included or excluded from this category at different points in U.S. history? How have American ideas of the “good” or “correct” life influenced U.S. relations with people in other parts of the globe? What are some of the ways in which Americans have consciously attempted to offer a vision of “American identity” to people in other parts of the globe? How have economic endeavors (and challenges) served to shape American identity both at home and throughout the globe? How have various forms of art—film, literature, music—etc. served to create a sense of American identity? **Graded: P/N. Satisfies: HC Colloquia**

HC 407 *Crises, Catastrophes, and Cataclysms in Earth History: It's All Fun and Games Until Your Planet Blows Up*

1 HC Credit(s)

CRN: 14250 Section 008 SEM Th 1300 - 1350

Instructor(s): Randall Milstein

Often Earth has a bad day: discussions of asteroid impacts, extreme volcanism, solar storms, climate change, and mass extinctions – events and outcomes that have, and will, alter life on Earth. This colloquium reviews the scientific evidence, scenarios, and after-effects of significant Earth altering processes. What would happen if Earth were struck by a two-kilometer-in-diameter asteroid? What would happen to American culture if a large coronal mass ejection from the Sun destroyed our power grid? What would be the byproduct of a SARS, Ebola, or avian influenza pandemic among humans? **Graded: P/N. Satisfies: HC Colloquia**

HC 407 *The Truth Is Out There: The Rise of Conspiracy Theories*

2 HC Credit(s)

CRN: 18152 Section 009 SEM M 1200 - 1350

Instructor(s): Robert Drummond

According to a recent study cited in the Washington Post, more than 50% of Americans believe in at least one conspiracy theory. Why this is true, and how it currently shapes much of our cultural and political landscape, will be our focus in this course. We will pose ourselves not as conspiracy theorists, but as conspiracy analysts (to paraphrase Gore Vidal), investigating humankind's fascination with sinister plots and paranoid fantasies past and present. As we seek patterns across conspiracies, we'll consider the almost-true and the wildly outrageous alike, and ask ourselves when conspiracy theories stop being fun and start feeling dangerous. Our term-long goal will be to make connections, define common traits, and explore what makes conditions ripe for conspiracy theorists to run rampant. Students will complete two projects during the term: Teach A Conspiracy, and Make A Conspiracy. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 ***Climate Change and Its Challenges: Responding with Resilience in Community***

2 HC Credit(s)

CRN: 16416 Section 010 SEM Th 800 – 950

Required field trip during class meeting time.

Instructor(s): Ken Winograd

How much do you think about climate change? Are you curious and/or concerned? If you would like to examine the perils and opportunities of climate change for you personally, this class offers an opportunity to reflect and learn about what scientists and theologians say is the greatest challenge for humankind, ever. Your personal response to climate change will be the point of departure in learning the ways that people, groups and societies are coping, adapting and even thriving with the challenges ahead. A portion of the class consists of an interactive workshop that ‘equips us with tools to face the mess we’re in and play our role in the collective transition...to a life-sustaining society.’ You will be challenged to rethink your role as citizen ‘in community’ in a world reshaped by the changing climate. Other related topics we will address include environmental justice, peace literacy, the nature-human relationship, and social activism. Learning activities will include readings, discussion, a field trip, and group reflections. **Required field trip during class meeting time. Graded: P/N. Satisfies: HC Colloquia**

HC 407 ***A Data Geek's Guide to the 2020 Elections***

2 HC Credit(s)

CRN: 19867 Section 011 SEM T 1800 - 1950

Instructor(s): Andy Olstad

In this class we will watch, analyze, discuss, and generally back-seat-drive the 2020 presidential election (and its media coverage from a data-oriented perspective). This class is partly inspired by John Allen Paulos’s *A Mathematician Reads the Newspaper* and Nate Silver’s *The Signal and the Noise*. Half of each weekly class period will be spent on a fun and fast introduction to statistical concept or data tool and the other half following the current events of what I expect will be a tumultuous fall. There are no particular mathematical or Political Science prerequisites, and the tools might vary based on what happens in the course of the election: expect topics like sampling and selection, poll averaging, prediction markets... but if there’s a meaningful third party candidate, game theory and spoiler effects would fit there too.

I’m very much not a political expert, but I’m a fan of statistically-oriented analyses of politics and “data journalism,” notably fivethirtyeight.com and many other places besides. Discussion and outside reading from the presidential horserace will be central. If you are- or want to be- a political news addict from the right, left, or center this class is for you! **Graded: P/N. Satisfies: HC Colloquia**

HC 407 ***Exploring the Oceans, Then and Now***

1 HC Credit(s)

CRN: 17276 Section 012 SEM T 1300 - 1350

Instructor(s): Holly Campbell

This course explores the exciting evolution of interdisciplinary oceanography. Focusing on the past century, we will trace the highlights of technological advances, marine science (chemistry, physics, biology, mapping and bathymetry) the contributions of women to the field, and the human dimensions of economics, ethics, world politics and competition. Guest experts from Oregon State University and the Pacific Northwest will share their perspectives. **Graded: P/N.**

Satisfies: HC Colloquia

HC 407 Drug Abuse and Misuse: a Global Perspective

2 HC Credit(s)

CRN: 15677 Section 013 SEM M 1600 - 1750

Instructor(s): Ray Tricker

This course will provide students with opportunities to compare, contrast, analyze and form conclusions about drug use, misuse and abuse from a global perspective in selected countries in comparison with the United States. **Graded: P/N.**
Satisfies: HC Colloquia

HC 407 Coaching for Youth Programs

1 HC Credit(s)

CRN: 19868 Section 014 SEM Th 1100 - 1150

Instructor(s): Karen Swanger & Gabrielle Schmit

This course focuses on developing the skills necessary to work with youth in any setting! Instruction is based on the model of Positive Youth Development and the research surrounding it. Positive Youth Development focuses on building relationships with youth by increasing confidence, developing character and life skills competence, by showing and developing compassion, and most importantly by creating connections. Students will learn to impact the social and emotional growth of any youth they interact with now and in their future careers. Students will have the opportunity to work with youth in a positive youth development setting and develop lesson plans during the course. They will develop applicable skills to working with youth in sport and recreation such as written and oral communication skills, planning and organization, and project and lesson management. Topics will include Positive Youth Development, identity development, growth mindset, communication skills, classroom management, game and lesson design, and so much more! This course is meant for anyone that wants to be a coach or teacher in the future, or who wants to work with youth in any capacity, including in the medical field, schools, and the community. **Satisfies: HC Colloquia**

HC 407 Humanizing Science

1 HC Credit(s)

CRN: 15678 Section 016 SEM T 1100 - 1150

Instructor(s): Paul Lorenzini

This colloquium will explore the historic tension between the sciences and the humanities. Some have said there is a gap between the two that is so wide they can be called “two cultures,” separated by “a gulf of mutual incomprehension, sometimes hostility and dislike, but most of all a lack of understanding.” Many believe advances in science will liberate humanity, while others counter that science has a dark side which is dehumanizing. At stake is the critical role of science for informing future public policies. We will seek to understand the source of these divisions by exploring historic trends in Western thought, from the scientific revolution during the Enlightenment, to the romantic backlash in the early 19th century, to the evolution of these two bodies of thought up to and including our modern era. Our goal will be to show how these divisions express themselves today and find a common ground between them. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 Dawn of the Anthropocene

1 HC Credit(s)

CRN: 15285 Section 017 SEM Th 1400 - 1450

Instructor(s): Jacob Hamblin

We grew up believing that “geological time” and “human history” were quite distinct, with one extending across ages beyond imagination and the other occurring as a tiny blip. But in recent years, scientific findings about the lasting effects of climate change, deforestation, ocean acidification, and other human-caused natural changes have led us to a new realization: we now live in an era of the earth’s history that is defined by human influence. How has this changed the ways we look at the world around us? Does it require a new brand of ethics? Does it make us rethink our own history? Does it direct our imagination? In this course we will explore the environmental arts and humanities to confront the ways our culture responds to living in an age we did not intend, yet is of our own making. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 Fur, Feathers and Fire: Wildlife Persistence in Fire-Prone Forests

1 HC Credit(s)

CRN: 18155 Section 018 SEM Th 1700 – 1750

**Meets weeks 1-5 only, with required all-day field trip Saturday, October 10th 2020.
FIELD TRIP CANCELLED DUE TO COVID-19**

Instructor(s): Brenda McComb

In addition to reading and discussing several recent journal articles on the effects of fire on forests and habitat for species, we will visit sites of past wildfires and prescribed fires in the Oregon Cascades and discuss the effects of these fires on birds and mammals. Discussions in the field and in the classroom will be enhanced by each student’s research into effects of fire on a species of their choice. **Meets weeks 1-5 only, with required all-day field trip Saturday, October 10th 2020. Course Fee: \$9. Graded: P/N. Satisfies: HC Colloquia**

HC 407 Science of Science Fiction

1 HC Credit(s)

CRN: 15893 Section 019 SEM T 1000 - 1050

Instructor(s): Randall Milstein

The good, the bad, the inventive, and the absolutely awful examples of “science” portrayed in science fiction films, television shows, comic books, and literature. Aliens, light sabers, space battles, gravity drives, warp speed, laser beams, star gates, and worm holes; what’s real, what’s a possibility, what’s speculation, and what is impossible. **Graded: P/N. Satisfies: HC Colloquia**

HC 407***Diagnosis, Stat: An Introduction to Clinical Diagnostics***

1 HC Credit(s)

Choose one option below, not both

CRN: 19869 Section 020 SEM Th 1600 – 1750 **Meets weeks 1-5 only.**

OR

CRN: 20364 Section 041 SEM Th 1600 – 1750 **Meets weeks 6-10 only.**

Instructor(s): Vincent Remcho

Are you curious about what happens to that blood sample that is drawn when you make a visit to the doctors' office? Interested in what kinds of information a CBC, or complete blood count, provides to the medical professionals on whom we rely for advice on how to lead our most healthy, productive lives? A majority of people - and domestic animals - will at some point in time have a blood sample drawn for the purpose of clinical analysis. In addition to the CBC, many other kinds of medical diagnostics can be run, and samples other than blood can be used for diagnostic purposes as well. This course will equip you to better understand and interpret the results of common diagnostic assays and will teach you how several of these assays work. Class will meet once per week, and you will invest 1-2 hours per week of additional time on your own schedule, consisting of some reading from materials provided to you. Class time will be invested in presentation and discussion of modern methods of clinical analysis. If you are interested in a career in pharmaceutical sales, health care/hospital administration, medicine (human or animal), health related science (chemistry, biology, biochemistry, medical device development), or simply curious about what happens when that sample disappears behind that door, this colloquium is a good fit for you. Your grade in the course will be based on participation. **Possible field trip, date TBD. Graded: P/N. Satisfies: HC Colloquia**

HC 407***Vampires, Race, and Gender***

2 HC Credit(s)

CRN: 17103 Section 021 SEM MW 1600 - 1650

Instructor(s): Jonathan Kaplan & Benita Blessing

Vampires are more than characters in scary stories. Together, we will explore the ways in which vampires tell us who we are, and who we fear. Our sources will include novels, vampires in history, films, and even literature from self-identifying vampires today. Using an interdisciplinary approach, we will engage with the ways in which vampire stories interact with issues of race, ethnicity, gender, and sexuality. Students will regularly share their findings with the colloquium about vampires and their meanings, and create a final poster on a topic related to these issues, to be shared in a "poster-session" with the class. **Satisfies: HC Colloquia**

HC 407***Illegitimate Music: Improvisation and Original Instrumentation***

2 HC Credit(s)

CRN: 19872 Section 023 SEM W 1000 - 1150

Instructor(s): John Campbell

In this course, we'll explore the creative and expressive possibilities offered by "illegitimate music": music produced without regard to genre or formal conventions, often improvised and performed in nonprofessional settings. We'll study examples of such music, and we'll perform original music on self-made instruments in small group contexts. Here "illegitimate" does not have a negative connotation; it simply denotes musical expression not sanctioned by the music academy or the entertainment industry. Thus this is a course for the "untrained" (although formally trained musicians are certainly welcome to participate): it is not a course in music theory or composition. This course does not regard music as a product, but rather emphasizes music as process and permission for free and authentic expression. Anyone who desires to create original music can participate. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 **"One Smalle Ladleful:" The Poetry of Hunger**

1 HC Credit(s)

CRN: 18157 Section 024 SEM T 1200 – 1350

Meets weeks 6-10 only

Instructor(s): Hiram Larew & Dr. Stella Coakley & Lynda Ciuffetti

Examines both historical and current hunger trends as well as the power of poetry to address social concerns, including hunger. Then, analyzes a number of poems written about hunger for their various modes of addressing the issue. Students are invited (not required) to write poems that are, in part, drawn from a field trip visit to the OSU Food Pantry. Students are also expected to plan an anti-hunger activity on campus or elsewhere that involves poetry; because of colloquium's duration, implementing the activity is highly encouraged but not required. **Meets weeks 6-10 only.**

Graded: P/N. Satisfies: HC Colloquia**HC 407** **Science, Ethics and Star Trek**

1 HC Credit(s)

CRN: 18158 Section 025 SEM Th 1500 - 1550

Instructor(s): Diana Rohlman

"What you're doing isn't self-defense. It's the exploitation of another species for your own benefit. My people decided a long time ago that that was unacceptable, even in the name of scientific progress." Captain Kathryn Janeway, Starfleet. To this day, while we have the ability to clone animals (and therefore humans), the ethical and moral ramifications have tempered many scientific advances. The fictional universe of Star Trek often explores the nexus of advanced technologies and the resultant ethical considerations. This class will use episodes from the Star Trek universe, paired with real-life case studies, to delve into the seen and unforeseen consequences of science and medicine. We will go where few have gone before, using Star Trek as a lens to understand the role of ethics in biological and clinical research, and medical ethics. Engage! **Satisfies: HC Colloquia**

HC 407 **Life - The Biosphere Through Space and Time**

2 HC Credit(s)

CRN: 19876 Section 026 SEM M 1000 - 1150

Instructor(s): Stephen Atkinson

Life is ancient, diverse and complex. My goal for this course is to give you an enhanced appreciation of the Earth's biosphere, at its many spatial and temporal scales. We will cover aspects of biology, ecology, parasitology, geology, astronomy and how these filter into our everyday human lives through the news media, science fiction and other genres. My other goal is to give you an introduction to different means of artistic expression, and demonstrate how you can convey scientific concepts in creative ways. If you don't have a science or art background - don't worry! Everyone is welcome, all activities will be demonstrated and materials supplied. This colloquium class should satisfy anyone who is curious about the living world in and around them, and wants to learn through assignments that involve a synthesis of science and art. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 **Native American Perspectives**

2 HC Credit(s)

CRN: 19877 Section 027 SEM W 1200 - 1350

Instructor(s): Samantha Chisholm Hatfield

Cultural awareness course from a Native American perspective using ethnomusicology and ethnographies. Course examines current life as a Native, and showcases Natives discussing what it's like to be Native in dominant society, the stereotypes they battled and what it took for them to "become" successful. Discussions of events, politics, Native lifestyles, and belief systems. Analysis of material outside of the class and finding examples that fit course discussions are expected. Involves activities designed to increase diversity awareness and what it's like to be a minority. **Satisfies: HC Colloquia**

HC 407 Understanding the Robotics Revolution

2 HC Credit(s)

CRN: 18160 Section 028 SEM TTh 1200 - 1250

Instructor(s): William Smart

The robots are coming! Should we be excited or worried? Should we fear our new metal overlords, or welcome them with open arms? This class will introduce students with no technical background to the underlying technologies that robots rely on. Students will learn about sensors (how robots see the world), actuators (how they affect the world), artificial intelligence (how they make decisions about what to do), and a range of other technologies used in robotics. They will also learn to think critically about the practical limitations of these technologies, and how these limitations affect the kinds of tasks that robots can do now, and will do in the future. At the end of the course, students will be able to evaluate the benefits and risks of this new emerging technology in a balanced way, based on a deep understanding of what's going on "under the hood," rather than based on the hype that often surrounds robotics. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 "The Play's the Thing": A Survey of Theater

1 HC Credit(s)

CRN: 15905 Section 030 SEM F 1100 - 1150

Instructor(s): Eric Hill

This class will introduce students from any major/background/field of interest to an array of exciting and groundbreaking drama. We will be looking at everything from Aristophanes' ancient Greek comedy *Lysistrata* (where the women withhold sex from their husbands until they promise to cease fighting the Peloponnesian War), to Shakespeare, to Tony Kushner's *Angels in America* (that covers the AIDS epidemic during the Reagan years, Mormonism, McCarthyism, and the supernatural). Be prepared to explore live theater in a variety of ways. Whether you're a thespian, avid theater goer, or just interested in exploring live theater from a variety of perspectives, this course is for you! **Graded: P/N. Satisfies: HC Colloquia**

HC 407 Robots and Romance

2 HC Credit(s)

CRN: 14717 Section 031 SEM W 1600 - 1850

Instructor(s): Gilad Elbom

This seminar will examine notions of love and romance in science-fiction cinema, paying attention to the various ways in which speculative movies envision close encounters of the intimate kind. Is there room for passion, lust, rejection, heartbreak, instant attraction, emotional turmoil, and other arguably outmoded concepts in a future world marked by scientific precision, technological perfection, and precalculated compatibility? Is there room for impure thoughts, the erotic imagination, and the inherently confusing nature of romantic relations in flawlessly controlled environments? Is it possible to engage in intimate contact with nonhuman entities: computers, robots, cyborgs, androids, or other intelligent machines? We will try to develop our ideas through questions about genre, design, narrative strategies, gender relations, human-computer interaction, artificial intelligence, utopia and dystopia, and other related themes. We will read some relevant literature, to be posted on Canvas, and address our movies from multiple perspectives and approaches: social, political, historical, psychological, technological, theological, and so on. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 ***Gender, Sexual Politics, and Music: Case Studies in Musical Identity and Representation***

1 HC Credit(s)

CRN: 17200 Section 032 SEM **F 1200 – 1350**
Meets weeks 1-5 only

Instructor(s): Kimary Fick

This course aims to participate in the discourse on the inequity and discrimination experienced by women and members of the LGBTQ community in music. Students will examine key literature in music and gender studies that identifies theories, methodologies, and key concepts. Each weekly meeting will be devoted to applying these methods through case studies across the history of western music to today. Topics include an examination of the different cultural conditions in which women made music, the influence of women on the musical world and the surviving canon, music and identity formation, and representations of women and sexuality both on the historical stage and in contemporary popular music. Through this course students will develop a deep understanding of issues surrounding gender and music studies and form a personal viewpoint on addressing these topics as related to modern culture and society. **Meets weeks 1-5 only.**

Graded: P/N. Satisfies: HC Colloquia

HC 407 ***Adaptation for the Stage***

2 HC Credit(s)

CRN: 17201 Section 033 SEM **MW 1300 - 1350**

Instructor(s): Elizabeth Helman

This course is a hands-on workshop where students will develop existing literary material for the stage. Students will explore the basic elements of creating “stageable” dramatic works including characterization, structure, conflict, perspective, setting, and plot. Projects include the development of several short adaptations based on class prompts, the adaptation of a historical account, an adaptation of the student’s choosing, and participation in a class showcase. In this setting students will read and critique each other’s work and participate in an editing process. **Satisfies: HC Colloquia**

HC 407 ***Disruptive Innovation: Can You Disrupt from Within?***

1 HC Credit(s)

CRN: 16693 Section 034 SEM **M 1400 – 1550**
Meets weeks 1-5 only

Instructor(s): David King

Join this discussion about what makes innovation disruptive, why it is important to how change occurs, and how you can apply these ideas in your future careers. The concept of disruptive innovation was coined by Clayton Christensen, from the Harvard Business School. He has documented disruptive Innovation in corporate environments for more than 20 years. If you want to become a true disrupter, this is a good place to start. The colloquium will include a variety of readings, video assignments, class discussions, and will conclude with your own innovation design project. **Meets weeks 1-5 only. Graded: P/N. Satisfies: HC Colloquia**

HC 407 **Philosophy of Happiness**

2 HC Credit(s)

CRN: 19878 Section 035 SEM TTh 800 – 950

Meets weeks 1-5 only

Instructor(s): Marta Kunecka

We all have a desire to be happy. Is human need for happiness causing us to suffer while looking for an unobtainable illusion or is this desire substantial and necessary to live a fulfilled life? What is it that we are looking for? What, in fact, is happiness—can it even sustain a definition? In this course students will immerse themselves in the wisdom of some of the greatest philosophers, and search for answers which can become guidelines for life. By closely examining the thought of a few chosen Western and Eastern thinkers as well as analysis of studies emerging from the field of positive psychology, students will explore and brainstorm different ideas of happiness in order to find its essence. The course will be based on analysis of the texts and vibrant class discussions. It will also allow students to get involved in the experiential learning process by asking to immerse themselves in the creative processes which will include introspection and mapping their state of happiness throughout the course as well as getting involved in practical activities that enhance their own state of mind such as gratitude, compassion etc. **Meets weeks 1-5 only. Graded: P/N. Satisfies: HC Colloquia**

HC 407 **Resilience, the Personal and the Political**

2 HC Credit(s)

CRN: 19881 Section 036 SEM T 1600 – 1750

Optional field trip, date will be worked out with students who enroll.

Instructor(s): Mary Carmel Finley

Resilience, the Personal and the Political, explores the responsibilities of citizens to the ecosystem in which we live. We will read *The Blue Mind*, about how we feel empowered when we are around water. We will look at the evolution of the concept of resilience within the arts, the sciences, and the social sciences. Students will map their knowledge network and journal about the disturbances in their own lives. Activities will include a field trip to the Hatfield Marine Science Center and participation in collecting data on species in the estuary. The final project will be to depict your personal ecosystem. **Optional field trip, date TBD. The instructor will work with students who enroll to choose a date for the field trip. There will be an alternative assignment for the students who cannot attend the field trip. Graded: P/N. Satisfies: HC Colloquia**

HC 407 **Imaging the Universe**

1 HC Credit(s)

CRN: 18857 Section 038 SEM M 1700 - 1750

Instructor(s): Tom Carrico

The universe is far more than what our eyes can see. Using DSLR cameras (their own or borrowed from the school), students will go outside and image the night sky. They will learn various methods of image processing that will help tease out all available information. From there, the course will look at many of the resources available that will reveal more of the spectrum of the universe, including radio telescopes, orbiting observatories, and other novel techniques. There will be opportunities to look through solar telescopes, experience a local star party with a wide range of telescopes, and spend many evenings photographing the universe. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 **What Is Creativity?**

2 HC Credit(s)

CRN: 19882 Section 039 SEM M 1400 - 1550

Instructor(s): Jeremy Townley

When we think about creativity, most of us privilege art: painting, sculpture, literature, and film. If we think a little harder, we might include dance, opera, photography, symphonic music, and theater, among other highbrow art forms. Yet why do we usually confine notions of creativity to the fine arts? Don't popular art (graphic novels, Hollywood movies, pop music, public graffiti-murals), not to mention other domains (architecture, computer science, engineering, math, physics), demand similar types of creativity? Is it possible to generalize patterns of thought and/or behavior from one creative endeavor to another? We will explore these and other questions through readings and films by creative practitioners and scholars, in-class written reflections, small-group and class discussions, informal presentations, a short synthesis essay, and a final creative project. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 **Contemporary Questions**

2 HC Credit(s)

CRN: 19921 Section 040 SEM W 1000 - 1150

Instructor(s): Don Johnson

The Art of Conversation is one of the most valued aspects of our lives, particularly when all participants are willing to listen and participate with open minds. We are not required to agree on all thinking, but we ought to be willing to listen and broaden our knowledge. Even if we disagree, we should take a measure of learning from the conversation. My main goal in this seminar is for you to "think" and enjoy doing so. Contemporary Questions initiate conversations which broaden our knowledge and expand our thinking. While using current news as a foundation for our conversations, we will also examine current news from its source and how it is perceived by ones personal beliefs and location. **Graded: P/N. Satisfies: HC Colloquia**

HC 407 **Road Trip to Nowhere: Hollywood Encounters the Counterculture**

2 HC Credit(s)

CRN: 20464 Section 042 SEM Th 1600 - 1750

Instructor(s): Jon Lewis

The business of making movies in the sixties and seventies was characterized and complicated by an intellectual, spiritual, and political gap evinced not only between moviemakers and the moviegoing audience but as well between artists caught up in the times and a corporate establishment rather clinging to a studio system (its business model and mode of production) despite the clear markers of its collapse. Road Trip to Nowhere: Hollywood Encounters the Counterculture will focus on Hollywood moviemaking and (inevitably, as well) the larger American popular culture between 1967 and 1976. At stake will be an interdisciplinary cultural history encompassing film, TV, and other visual arts; music, and literature.

Weekly screenings to be selected from: *Monterey Pop* (Pennebaker, 1968), *Wild in the Streets* (Shear, 1968), *Easy Rider* (Hopper, 1969), *Zabriskie Point* (Antonioni, 1970), *Wanda* (Loden, 1971), *The Parallax View* (Pakula, 1974), and *Once Upon a Time in Hollywood* (Tarantino, 2019). **Satisfies: HC Colloquia**

HC 407 **Lady Detectives**

2 HC Credit(s)

CRN: 20105 Section 400 online

Instructor(s): Clare Braun

From Agatha Christie's Miss Marple to Kristen Bell's Veronica Mars, women have solved some of the dastardliest crimes of the detective genre both on the page and on the screen. We will look at a variety of texts and films featuring lady detectives—some very ladylike indeed, some decidedly not—to examine the cross-sections between gender and genre. How do these detectives use their performance of gender to solve mysteries? How do these stories challenge, reinforce, and/or complicate traditional notions of gender and crime? **This is an Ecampus course. Tuition rates for Ecampus courses are different than on-campus courses and can be found at ecampus.oregonstate.edu/services/tuition. Graded: P/N. Satisfies: HC Colloquia**

HC 407 / Introduction to Traditional Ecological Knowledge
ENSC 407H

2 HC Credit(s)

Choose either the ENSC 407H section OR the HC 407 section, not both.

HC 407 CRN: 17542 Section 401 online

ENSC 407H CRN: 17543 Section 400 online

Instructor(s): Samantha Chisholm Hatfield

The goal of this course is to understand Traditional Ecological Knowledge (TEK) and sustainability practices from a Native American perspective, focusing on the Pacific Northwest but also addressing other Tribes nationally. The emphasis will be on techniques the Siletz have implemented and continue utilizing, but we will also incorporate other techniques from tribal perspectives in local and national areas, as well as how these utilizations coincide with agencies on local, state, and federal levels. This class will focus on how state and federal guidelines, laws, and regulations affect and implement tribal policies and tribal members. This course promotes TEK as a viable sustainability technique and teaches students and community members about further understanding TEK, in cooperation through agencies and policies such as treaties and NAGPRA on Indigenous lands, traditional areas, and cultural practices. **This is an Ecampus course. Tuition rates for Ecampus courses are different than on-campus courses and can be found at ecampus.oregonstate.edu/services/tuition.**
Satisfies: HC Colloquia

PH 407H The Mystery of Consciousness

1 HC Credit(s)

CRN: 17105 Section 001 SEM F 1400 - 1450

Instructor(s): Albert Stetz

Think of all your loves and desires, all your memories and everything that makes you a unique individual existing through time. All this arises from your brain, three pounds of wrinkled grey meat. Operating at full capacity, it consumes about 12 watts of power, as much as a dim light bulb. How is this possible? The short answer is that we just don't know. Part of the problem is the brain's vast complexity. We have as many neurons as there are stars in the galaxy, as many dendrites as there are leaves on all the trees in the Amazon rain forest. There are some promising lines of investigation however. We understand the physiology of neurons and know, at least in outline, how vision comes about. There are computers with the architecture of neural nets that can perform some of the tasks of human intelligence. Functional MRI allows us to "see" where various thought processes take place in the brain. But philosophers have wrestled with the mystery of consciousness at least since Descartes in the 17th century. They have shown us, if nothing else, how subtle and difficult it is.

This is a subject that encompasses philosophy, neuroscience, computer science and physics. As such there is no one book that "tells you all about it." All the books on consciousness – and there are a lot of them – tell about the subject from the point of view of the writer's specialty. It is my goal in this course to give you a bird's eye view of the subject. To this end I will be giving a series of lectures on a wide range of material. You will be asked to write three brief essays over the course of the quarter on topics of your choice. **Satisfies: HC Colloquia**

Fall 2020 Corvallis HC Electives

BA 160H**B-Engaged**

2 HC Credit(s)

This course is shared with a section for COB Dean's Academy students.

Honors students should register for section 019 and choose either section 010, 012, or 014.

CRN: 15897	Section 019	REC	F 0900 - 0950	Sandra Neubaum
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AND choose one LEC section

CRN: 15898	Section 010	LEC	TTh 1100 - 1150	Katelyn O'Brien
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CRN: 15900	Section 012	LEC	TTh 1300 - 1350	Katelyn O'Brien
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CRN: 16443	Section 014	LEC	TTh 1400 - 1450	Katelyn O'Brien
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Understand and accomplish college-level academic work and explore OSU resources and options that will enhance your college experience and success. Opportunity to connect with faculty and peers with common interests in a supportive learning environment. Recitation is common with non-honors (Recitation in this case is the main large meeting and the lectures are the small breakouts). **This course is shared with a section for COB Dean's Academy students. Honors students should register for section 019 and choose either section 010, 012, or 014. 2 out of the 3 OSU credits earned will count toward Honors College requirements.** RESTRICTIONS: For first-year business students only. **Satisfies: HC Elective**

BA 211H**Financial Accounting**

4 HC Credit(s)

This course is shared with a section for COB Dean's Academy students.

Honors students should register for section 001.

CRN: 16322	Section 001	LEC	TTh 0800 - 0950
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Instructor(s): Terrence Blackburne

Accounting information from the perspective of external users, principally investors and creditors. Emphasis on the preparation and interpretation of financial statements, income recognition and determination, and asset valuation. **This course is shared with a section for COB Dean's Academy students. Honors students should register for section 001.** PREREQS: (MTH 111 OR MTH 241 OR MTH 251/251H) OR Placement Test MPT(24) OR Placement Test MPAL(060). RESTRICTIONS: Business majors/minors only. Sophomore standing required. **Satisfies: HC Elective**

BA 281H**Professional Development**

3 HC Credit(s)

This course is shared with a section for COB Dean's Academy students.

Honors students should register for section 001.

CRN: 17528	Section 001	LEC	TTh 830 - 950
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Instructor(s): Kimberly Gratz

Designed to give students an early start on the process of career planning and development. The process involves thoughtful self-assessment, career exploration, planning and follow-through with preliminary employment strategies. **This course is shared with a section for COB Dean's Academy students. Honors students should register for section 001.** RESTRICTIONS: For Business majors/minors only. Minimum of sophomore standing required. **Satisfies: HC Elective**

BA 352H **Managing Individual and Team Performance**

4 HC Credit(s)

This course is shared with a section for COB Dean's Academy students.

Honors students should register for section 001.

CRN: 19893 Section 001 LEC MW 1000 - 1150

Instructor(s): Keith Leavitt

Diagnose individual and small-group behavior and develop skill in improving individual and small-group performance in entrepreneurial and established ventures. Emphasis on professional skill development and the practical application of theory and research. Concepts of ethics, diversity and cross-cultural relations are integrated throughout the course. **This course is shared with a section for COB Dean's Academy students. Honors students should register for section 001.** PREREQS: (COMM 111/111H or COMM 114/114H or COMM 218/218H) AND (WR 222 or WR 323 or WR 327 or WR 327H or HC 199). RESTRICTIONS: For Business majors/minors only. Minimum of junior standing required. **Satisfies: HC Elective**

BA 370H **Business Information Systems Overview**

4 HC Credit(s)

This course is shared with a section for COB Dean's Academy students.

Honors students should register for section 001.

CRN: 19895 Section 001 LEC MW 1200 - 1350

Instructor(s): Vipin Arora

Introduce students to the field of information management. Topics include information systems technology, the strategic role of IT, the business applications of networks, databases and Internet technologies, and the development and implementation of information systems. Use relational database models to design a real-world case study. **This course is shared with a section for COB Dean's Academy students. Honors students should register for section 001.** PREREQS: BA 270/270H or BA 302 RESTRICTIONS: For Business majors/minors only. Minimum of junior standing required. **Satisfies: HC Elective**

BI 445H **Evolution**

3 HC Credit(s)

CRN: 17590 Section 001 LEC TTh 1400 - 1520

Instructor(s): Molly Burke

Formal analysis of genetic and ecological mechanisms producing evolutionary change; special topics include speciation, ecological constraints, adaptive radiations, paleontology, biogeography, the origin of life, molecular evolution, and human evolution. Prereqs: BI 311/311H. **Satisfies: HC Elective**

CBEE 101H CHE, BIOE and ENVE Orientation

2 HC Credit(s)

CHE majors choose sections 001 and 010

CRN: 13485	Section 030	LEC	M 1800 - 1850	Skip Rochefort
CRN: 19819	Section 031	STU	F 1400 - 1550	Skip Rochefort
CRN: 20198	Section 032	LAB	Th 1600 - 1750	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 is common with non-Honors, studio is reserved for HC students. **2 out of the 3 OSU credits earned count toward Honors College requirements. Satisfies: HC Elective**

CBEE 211H Material Balances and Stoichiometry

1 HC Credit(s)

CRN: 14745	Section 001	LEC	MF 1200 - 1250
AND			
CRN: 14746	Section 010	REC	W 1200 - 1250
AND			
CRN: 14747	Section 011	STU	W 1400 - 1450

Instructor(s): Konstantinos Goulas

Material balances, thermophysical, and thermochemical calculations. Lecture and recitation common with non-honors. Studio is reserved for honors students only. Students must enroll in CBEE 211H lecture, recitation, and studio. **1 out of the 3 OSU credits earned counts toward Honors College requirements. PREREQS: MTH 252/252H. RECOMMENDED PREREQS: general chemistry and second-year standing in engineering. Satisfies: HC Elective**

CH 361H**Experimental Chemistry I**

3 HC Credit(s)

Contact the Chemistry department for registration

CRN: 12006 Section 001 LEC M 1500 - 1550

AND choose one LAB section

CRN: 12007 Section 011 LAB TTh 800 - 1120

CRN: 12008 Section 012 LAB TTh 1300 - 1620

CRN: 18477 Section 013 LAB WF 1200 - 1520

Instructor(s): Kevin Gable

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). **Contact the Chemistry department for registration.** PREREQ: (CH 221, CH 222, AND CH 223) OR (CH 224H, CH 225H, AND CH 226H) OR (CH 231/231H, CH 232/232H, CH 233/233H AND (CH 261/261H OR CH 271), (CH 262/262H OR 272), AND (CH 263/263H OR 273)) AND (MTH 251/251H AND (PH 201 OR PH 211/211H) AND CH 334). MTH 251/251H, PH 201, PH 211, and CH 334 can be taken concurrently. RESTRICTIONS: Only Chemistry, Biochemistry and Biophysics majors/minors/options may enroll. **Course Fee \$44 (non-refundable). Satisfies: HC Elective**

CH 461H**Experimental Chemistry II**

3 HC Credit(s)

Contact the Chemistry department for registrationCRN: 12239 Section 001 LEC **Weeks 0-3: TTh 1200 – 1320**
Weeks 4-10: T 1200 – 1320**AND**CRN: 12260 Section 010 LAB **Weeks 0-3: T & Th 1330 – 1550**
Weeks 4-10: T 1330 – 1550 & Th 1200 – 1350

Instructor(s): 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. **Contact the Chemistry department for registration.** PREREQS: CH 362/362H AND CH 421 AND CH 440. CH 421 and CH 440 can be taken simultaneously to this course. RESTRICTIONS: For chemistry majors/minors only. **Course Fee \$44 (non-refundable). Satisfies: HC Elective**

CH 464H **Experimental Chemistry II** 3 HC Credit(s)**Contact the Chemistry department for registration**

CRN: 12009 Section 001 LEC M 1300 - 1350

AND

CRN: 12240 Section 011 LAB M 1400-1650 & W 1300-1650

Instructor(s): Christine Pastorek

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. **Contact the Chemistry department for registration.** PREREQS: CH 362/362H AND CH 442 (or approval of instructor). CH 442 can be taken concurrently. RESTRICTIONS: For chemistry majors/minors only. CH 461 or CH 324 are recommended. **Course Fee \$44 (non-refundable).** **Satisfies: HC Elective**

CHE 331H **Transport Phenomena I** 1 HC Credit(s)

CRN: 14758 Section 001 LEC MWF 1000 - 1050

AND

CRN: 19805 Section 010 STU MF 1300 - 1350

Instructor(s): Staff TBD

Fundamentals and application of momentum and energy transfer phenomena to fluid flow for the design of industrial chemical engineering equipment. Lecture common with non-honors. Recitation is reserved for HC students only. **1 out of the 4 OSU credits earned counts toward Honors College requirements.** PREREQ: MTH 256/256H AND CBEE 212/212H. CBEE 212/212H can be taken concurrently. RESTRICTIONS: Must be in the College of Engineering to enroll in this course. **Satisfies: HC Elective**

CS 160H **Computer Science Orientation** 3 HC Credit(s)

CRN: 20515 Section 001 LEC MW 1300 - 1350

AND

CRN: 17524 Section 010 LAB F 1000 - 1150

Instructor(s): Jennifer Parham-Mocello

Introduction to the computer science field and profession. Team problem solving. Introduction to writing computer programs. RESTRICTIONS: This course is for pre-Engineering students. **Satisfies: HC Elective**

CS 321H **Introduction to Theory of Computation** 3 HC Credit(s)

CRN: 17465 Section 001 LEC MWF 1400 - 1450

Instructor(s): Julianne Schutfort

Survey of models of computation including finite automata, formal grammars, and Turing machines. PREREQS: CS 261 AND (CS 225 OR MTH 231). Restrictions: Must be in the College of Engineering. Not for Computer Science Double Degree students. **Satisfies: HC Elective**

DSGN 341H Design Thinking and Process Innovation

4 HC Credit(s)

This course is shared with a section for COB Dean's Academy students.

Honors students should register for section 001.

CRN: 20046 Section 001 LEC TTh 1000 - 1150

Instructor(s): Shanna Ruyle

Application of a qualitative, multi-method approach to gain insight into how the consumer experience can be improved within a given context. Application of design thinking principles to identify and develop solutions to improve consumer experience within a given context. **This course is shared with a section for COB Dean's Academy students. Honors students should register for section 001.** Restrictions: For Apparel Design, Merchandising Management, Interior Design, and Design & Innovation Management students only. Minimum of junior standing required. **Satisfies: HC Elective**

ENGR 201H Electrical Fundamentals I

3 HC Credit(s)

CRN: 17348 Section 001 LEC TTh 1600 - 1650

AND

CRN: 17349 Section 010 LAB Th 1200 - 1350

Instructor(s): Matthew Johnston

Analysis of linear circuits. Circuit laws and theorems. DC responses of circuits. Operational amplifier characteristics and applications. PREREQ: MTH 251/251H AND MTH 252/252H. For Pre-Engineering, Engineering, and Forestry students only. **Satisfies: HC Elective**

ENGR 211H Statics

3 HC Credit(s)

CRN: 16713 Section 001 LEC MW 1600 - 1650

AND

CRN: 16714 Section 020 REC F 1000 - 1150

Instructor(s): Kenneth Martin

Analysis of forces induced in structures and machines by various types of loading. PREREQS: MTH 252/252H. Sophomore standing in Engineering. RESTRICTIONS: For Pre-Engineering, Engineering, Pre-Forestry, and Forestry students only. **Satisfies: HC Elective**

HC 409 Conversants

1 HC Credit(s)

CRN: 11190 Section 007 PRAC

Instructor(s): Leanna Dillon

The INTO OSU Cultural Ambassador Conversant Program provides an opportunity for honors students to earn credit while participating in a mutual cultural exchange. Participating honors students commit to meeting on average one hour per week with their international partner, keep a log of the times and places they met and the topics discussed, and complete a 2 page reflections paper due at the end of the term. Program information including the application process, is available at <http://oregonstate.edu/international/cultural-ambassador>. Students must meet with an HC advisor to complete a Learning Agreement. Applications must be submitted online no later than the end of week 1. **Graded: P/N. Satisfies: HC Elective**

HC 409/ HC 002 HC Peer Mentor Program0-1 HC
Credit(s)*Choose one section*

1 Credit HC 409 CRN: 15679 Section 009 PRAC M 1700-1750

0 Credits HC 002 CRN: 18718 Section 001 Ind Study M 1700-1750

1 Credit HC 409 CRN: 15793 Section 010 PRAC W 1600-1650

0 Credits HC 002 CRN: 18719 Section 002 Ind Study W 1600-1650

Instructor(s): LeeAnn Baker

For participating mentors in the Honors College Peer Mentoring Program. This course will explore a number of topics that are pertinent to a peer mentor's role including: Peer mentoring theory, challenges faced by first-year and transfer students, the impact of peer mentoring on minoritized student populations, effective communication, cultural competency, etc. The goal of the course is to allow students to learn effective peer mentoring strategies through practical application of theory and self-reflection. To register, contact LeeAnn Baker at leeann.baker@oregonstate.edu. **Graded: P/N. Satisfies: HC Elective**

MATS 321H Introduction to Materials Science

4 HC Credit(s)

CRN: 18660 Section 001 LEC TTh 1200 - 1350

Instructor(s): David Cann

Crystal structure, microstructure, and physical properties of metals, ceramics, polymers, composites, and amorphous materials. Also includes elementary mechanical behavior and phase equilibria. PREREQS: CH 202 or CH 222 or CH 232/232H or CH 224H. RESTRICTIONS: For Electrical & Computer Engineering, Chemical Engineering, Manufacturing Engineering, Mechanical Engineering, Industrial Engineering, Nuclear Engineering, and Materials Science. Minimum of junior standing is required. **Satisfies: HC Elective**

ME 382H Introduction to Design

1 HC Credit(s)

CRN: 13972 Section 001 LEC **MWF 1200 - 1250**

AND

CRN: 13973 Section 010 LAB **F 1000 - 1150**

Instructor(s): Andy Dong

This Honors section will include short seminars and discussions on contemporary research on topics in design methodology and marine renewable energy. Lecture common with non-Honors. **1 out of the 4 OSU credits earned counts toward Honors College requirements.** PREREQS: ENGR 248 and ME 250 and PH 211/211H. ME 250 can be taken concurrently. RESTRICTIONS: Must be enrolled in the College of Engineering. Engineering Physics, Manufacturing Engineering, Mechanical Engineering, Industrial Engineering, and Nuclear Engineering majors/minors only. RECOMMENDED PREREQ: ME 316. **Satisfies: HC Elective**

ME/NSE 311H Introduction to Thermal-Fluid Sciences

4 HC Credit(s)

Choose either the ME 311H section or the NSE 311H section.

MIME students should register for ME 311H. Nuclear Engineering students should register for NSE 311H.ME 311H CRN: 19885 Section 001 LEC **TTh 1000 - 1150**NSE 311H CRN: 19886 Section 001 LEC **TTh 1000 - 1150**

Instructor(s): Deborah Pence

Basic concepts of fluid mechanics, thermodynamics and heat transfer are introduced. Conservation of mass, energy, moment and the second law of thermodynamics are included. **MIME students should register for ME 311H. Nuclear Engineering students should register for NSE 311H.** PREREQS: ENGR 212/212H and MTH 256/256H. RESTRICTIONS: Must be enrolled in the College of Engineering. Mechanical Engineering, Industrial Engineering, and Nuclear Engineering majors/minors only. **Satisfies: HC Elective**

MIME 101H Introduction to MIME

3 HC Credit(s)

CRN: 15902 Section 001 LEC **MW 1400 - 1450***AND choose one REC section*CRN: 15903 Section 010 REC **F 1200 - 1350**CRN: 15904 Section 011 REC **F 1400 - 1550**CRN: 20743 Section 012 REC **F 1800 - 1950**

Instructor(s): Nordica MacCarty

Provides students with an overview of mechanical, industrial, manufacturing, and energy systems engineering careers and an introduction to technical areas of study. Skills necessary for success in both the academic curriculum and in the engineering profession will also be emphasized, including communication and ethics. **Satisfies: HC Elective**

MTH 252H Integral Calculus

4 HC Credit(s)

Choose one LEC section. **Note:** MTH 252H does not have a recitation. That hour is included in the lectures.

CRN: 14691 Section 002 LEC MW 1000 – 1150

Instructor(s): Scott Peterson

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. Definite integrals, elementary applications to area, force, and work. Integral tables and basic techniques of integration, calculus of logarithmic and exponential functions, polar coordinates, applications to areas, volumes, force, work, and growth and decay problems. PREREQS: MTH 251/251H. **Course Fee \$10. Satisfies: HC Elective**

MTH 254H Vector Calculus I

4 HC Credit(s)

Choose one LEC section. **Note:** MTH 254H does not have a recitation. That hour is included in the lectures.

CRN: 12011 Section 001 LEC MW 1400 - 1550 Daniel Rockwell

CRN: 13528 Section 002 LEC MW 1600 - 1750 Filix Maisch

Instructor(s):

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. PREREQS: MTH 252/252H. **Course Fee \$10. Satisfies: HC Elective**

NSE/ME 311H Introduction to Thermal-Fluid Sciences

4 HC Credit(s)

Choose either the ME 311H section or the NSE 311H section

MIME students should register for ME 311H. Nuclear Engineering students should register for NSE 311H.

ME 311H CRN: 19885 Section 001 LEC TTh 1000 - 1150

NSE 311H CRN: 19886 Section 001 LEC TTh 1000 - 1150

Instructor(s): Deborah Pence

Basic concepts of fluid mechanics, thermodynamics and heat transfer are introduced. Conservation of mass, energy, moment and the second law of thermodynamics are included. **MIME students should register for ME 311H. Nuclear Engineering students should register for NSE 311H.** PREREQS: ENGR 212/212H and MTH 256/256H. RESTRICTIONS: Must be enrolled in Pro-School in the College of Engineering. Nuclear Engineering majors/minors only in the NSE 332H section. Mechanical Engineering and Industrial Engineering majors/minors should register for ME 332H. **Satisfies: HC Elective**

PH 221H Recitation for Physics 211

1 HC Credit(s)

CRN: 12841 Section 001 REC T 1100 - 1150

Instructor(s): Guenter Schneider

Honors recitation reserved for HC students enrolled in lecture/lab sections of PH 211 or PH 211H. One-hour weekly session for the development of problem-solving skills in calculus-based general physics. COREQ: PH 211/211H. **Graded: P/N. Satisfies: HC Elective**

PH 222H Recitation for Physics 212

1 HC Credit(s)

CRN: 18666 Section 002 REC Th 1100 - 1150

Instructor(s): David Roundy

Honors recitation reserved for HC students enrolled in lecture/lab sections of PH 212 or PH 212H. One-hour weekly session for the development of problem-solving skills in calculus-based general physics. COREQ: PH 212/212H. **Graded: P/N. Satisfies: HC Elective**

PSY 399H The Neuroscience Toolbox

4 HC Credit(s)

CRN: 18165 Section 001 SEM TTh 1000 - 1150

Instructor(s): Anita Cservenka

Have you wondered about the ways neuroscientists study the brain? There are a variety of tools available to understand brain structure and functioning at both the micro and macro level. This survey course will introduce you to the methods scientists use to investigate how the brain works using neurons, animal models, and human participants. You will get a chance to visualize the brain, dissect a brain, and hear from experts from the university and beyond to get an overview of the variety of techniques that have aided in our understanding of typical and atypical brain functioning. This class will include hands-on activities, class discussions, guest speakers, and will culminate in a proposal and presentation of your own research ideas to study the brain. **Satisfies: HC Elective**

PSY 399H Honors Psychology Research

1 HC Credit(s)

CRN: 19922 Section 002 LEC M 1500 - 1550

Instructor(s): Juan Hu

Explore opportunities in research labs and develop essential research skills necessary to be a productive member of a research team. Discuss how undergraduate theses are completed in research labs. Document skills for graduate school and job applications. **Satisfies: HC Elective**

Fall 2020 Corvallis HC Thesis/Research/Projects

HC 408 **Thesis: First-Year Resources and Thesis Jumpstart** 2 HC Credit(s)

CRN: 18675 Section 004 LEC T 1600 - 1750

Instructor(s): Leanna Dillon

Through workshops and presentations, first-year students will discover OSU and Honors College research opportunities and resources. This course also guides first-year students through Stages 1 & 2 of the Thesis Success in Stages (TheSIS) process, Plan and Explore & Build. Students will plan ahead for a successful HC thesis experience, explore their own research interests and goals, and build upon their knowledge of research opportunities and resources available at OSU. Through smaller assignments, students will compile information about research at OSU in order to create a poster and participate in a mini thesis fair to display and talk about their work. Course participation and attendance are required. **For first-year, first-term students only. Graded: P/N. Satisfies: HC Elective/Thesis**

HC 408 **Thesis Stage 2: Explore & Build** 1 HC Credit(s)

CRN: 13351 Section 001 HYB W 1700 – 1750
Meets weeks 2, 4, 6, & 10 only

Instructor(s): Kassena Hillman & Andy Karplus

HC 408: Stage 2 Explore & Build will guide you through the second stage of the Thesis Success in Stages (TheSIS) process. In this class you will explore the many resources at the HC and OSU to help you find a mentor and a project, build strategies for a successful thesis experience, learn the components of the thesis, and plan out your next steps. You will also hear from students and faculty with recent experience in the thesis process. You do not need to have a thesis idea to be in Stage 2. This course is a hybrid course that consists of weekly online assignments and one hour in-person class meetings weeks 2, 4, 6, & 10. This course will be team taught with an HC Academic Advisor and HC faculty. **Meets weeks 2, 4, 6, & 10 only (10/7, 10/21, 11/4, 12/2)** PREREQS: Prior completion of TheSIS Stage 1 as outlined at honors.oregonstate.edu/thesis. **Graded: P/N. Satisfies: HC Thesis/Research/Projects**

HC 408 **Thesis Stage 2: Explore & Build** 1 HC Credit(s)

CRN: 20168 Section 400 online

Instructor(s): Kassena Hillman

HC 408: Stage 2 Explore & Build will guide you through the second stage of the Thesis Success in Stages (TheSIS) process. In this class you will explore the many resources at the HC and OSU to help you find a mentor and a project, build strategies for a successful thesis experience, learn the components of the thesis, and plan out your next steps. You will also hear from students and faculty with recent experience in the thesis process. You do not need to have a thesis idea to be in Stage 2. **This is an Ecampus course. Tuition rates for Ecampus courses are different than on-campus courses and can be found at ecampus.oregonstate.edu/services/tuition.** PREREQS: Prior completion of TheSIS Stage 1 as outlined at honors.oregonstate.edu/thesis. **Graded: P/N. Satisfies: HC Thesis/Research/Projects**

