

THE JOHNS HOPKINS UNIVERSITY

2013-2014

FALL TERM
UNDERGRADUATE

SCHEDULE OF COURSES

as of March 18, 2013

ARTS AND SCIENCES

AND

ENGINEERING

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to view by department.

Fall 2013

WIN\grauenz1

Anthropology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.070.113	01	HS		Freshman Seminar <i>Haeri, Niloofar</i> Students will be introduced to anthropology through ethnographic films and selected readings in anthropology.	2.00	35	W 1:30-3:30PM
AS.070.285	01	HS		Understanding Aid: Anthropological Perspectives for Technology-Based Interventions <i>Cervone, Emma</i> This course combines anthropological perspectives with the discussion and examination of technology-based interventions in the field of development and aid policies, with particular focus on activities related to water resources, sanitation, and hygiene. Readings and discussions analyze some of the theoretical, historically rooted, and practical issues that challenge those who hope to provide effective aid. A key aim of this course is to provide students with better understanding of cultural, social, environmental and economic issues relevant to technical intervention in developing countries.	3.00	20	TTh 12:00-1:15PM
AS.070.293	01	HS	W	Anthropology of Material Worlds <i>Poole, Deborah</i> This course explores how anthropologists study material forms and objects in relationship to social, political and cultural life. Topics to be considered include, totemism, art, engineering, garbage, display, collection, and the fetish.	3.00	50	TTh 1:30-2:45PM
AS.070.319	01	HS	W	Logic of Anthropological Inquiry <i>Obarrio, Juan M</i> Anthropology combines theory and methods from the sciences and the humanities. We take a close look at those logics, as shown in ethnography as a mode of inquiry and as a genre of writing. This will count as a required course for Anthropology majors but open to all undergraduates.	3.00	15	T 1:30-3:50PM
AS.070.337	01	HS		Digital Media, Democracy, and Control <i>Humphreys, Laura Zoe</i> This course examines how digital technologies enable new publics that circumvent state and social controls as well as how they are mobilized to confirm existing racial, gendered, and political hierarchies.	3.00	25	Th 1:30-3:50PM
AS.070.385	01	HS	W	From Sexual Nature to Sexual Politics <i>Goodfellow, Aaron</i> This course traces anthropological concern with questions of sexuality. Students will explore anthropological notions of primitive promiscuity, cultural configurations of the correspondence between sex, procreation, and birth, and ideas about sexual rites of passage. The course will end with a discussion of sexual politics in Euro-America and public concern over HIV/AIDS. The course draws on the work of Freud, Malinowski, Meade, Herdt, Povinelli, Rubin, Bersani and Halperin.	3.00	55	TTh 10:30-11:45AM

Cross-listed with WGS

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AS.070.435	01	HS		It's all Relative: Kinship Studies in the New Millennium <i>Goodfellow, Aaron</i> Prereq: 070.435 The study of kinship was once recognized as the defining province of anthropology. With the advent of new reproductive technologies, shifts in the legal status of marriage, and recent reconfigurations in domestic arrangements, the orienting coordinates of kinship studies (meaning heterosexual reproduction and marriage) appear to be pushed out of shape. This course explores recent anthropological efforts to come to terms with family and kin relations built outside of marriage and heterosexual reproduction.	3.00	15	Th 4:00-6:20PM
AS.130.102	01	H	W	From the Neanderthals to the Neolithic <i>McCarter, Susan</i> Emphasizing theories about human biological and cultural development, this course consists of an in-depth survey of Neanderthal morphology and culture, a brief discussion of evolutionary theory and our fossil ancestors, and concludes with an exploration of the mechanisms and results of the shift from hunting and gathering to farming. (Course formerly known as Intro: Human Prehistory) Cross-listed with Anthropology	3.00	60	TTh 1:30-2:45PM
AS.130.110	01	HS		Intro To Archaeology <i>Schwartz, Glenn M</i> An introduction to archaeology and to archaeological method and theory, exploring how archaeologists excavate, analyze, and interpret ancient remains in order to reconstruct how ancient societies functioned. Specific examples from a variety of archaeological projects in different parts of the world will be used to illustrate techniques and principles discussed. Cross-listed with Anthropology	3.00	80	TTh 10:30-11:45AM
AS.300.330	01	HS		Trauma in Theory, Film, and Fiction <i>Leys, Ruth</i> An examination of the representation of trauma in literary theory, psychiatry, survivor literature, films, novels, and comics. Works by Sebald ("The Emigrants"), Lanzmann ("Shoah"), Spiegelman ("In the Shadow of No Towers"), McCarthy ("Remainder"), and others.	3.00	15	T 1:30-3:50PM
AS.310.104	01	HS	W	Pacific Crossings: East Asia and the US from the 19th Century to the Present <i>Bronson, Adam</i> This course examines the connections between US and East Asian history from the 19th century to the present day. We will explore how cultural exchange and confrontation shaped humanitarian, nationalist, and socialist projects in the US, China, Korea, and Japan. Readings include memoirs, travelogues, essays, and novels that provide a window into transpacific history.	3.00	25	MW 1:30-2:45PM
AS.310.115	01	H		Ghost Tales from China and Japan, 14th-19th Centuries <i>Joo, Fumiko</i>	3.00	25	MW 12:00-1:15PM

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				We cannot express our own experience of death – only imagine life after death. How did people in the past conceptualize the world of the dead? Ghost tales will teach us what we imagine as the experience of dead and life after death. This course aims to introduce students to a variety of ghost stories in Late Imperial China and Tokugawa Japan and connect their literary imagination of the dead to the cultural, socio-historical, and religious context of each society as well as to the broad East Asian tradition of supernatural narratives. While we also touch upon earlier traditions on narrating the dead, most of the stories in class readings are from the Ming (1368-1644) and Qing (1644-1911) dynasties of China, and the Tokugawa period (1600-1868) of Japan. Key issues include family, gender, sexuality, body, medicine and many more. Although we will also take a look at visual and theatrical representations of the dead, we will primarily focus on literary texts about ghostly phenomena. Required film screenings are scheduled outside of regular class hours. All readings are in English.			
AS.310.221	01	HS		Introduction to Eastern Religious Traditions <i>Valentine, Jay Holt</i>	3.00	30	TTh 4:30-5:45PM
				This course serves as an introduction to Hinduism, Jainism, Buddhism, Sikhism, Confucianism, and Daoism. Successful completion of this course will provide students with a critical understanding of these six traditions.			
AS.310.314	01	H		China's Golden Age: Diversity of Language, Literature and Culture <i>Chao, Fang-Yi</i>	3.00	20	TTh 12:00-1:15PM
				This is a basic introduction to the language and culture of the Golden Age of China (7th century to 13 century). The course aims at developing student's awareness of linguistic, literary and cultural diversity during China's Golden Age. It introduces not only the basic grammar of literary Chinese but also the linguistic features of early Modern Chinese. Through the reading and discussion of the original texts, students will learn to analyze, to comprehend and to appreciate the historical texts in different genres. Students will also become aware of the difference between literary Chinese and modern Chinese. In addition to language skills, students will learn to study the cultural background of the texts and to gain a good knowledge of the achievements of China's Golden Age. Prerequisites: AS.373.111-2 and AS.373.115-6 and AS.373.211-2 and AS.373.215-6.			
AS.389.201	01	HS		Introduction to the Museum: Past and Present <i>Rodini, Elizabeth</i>	3.00	24	TTh 1:30-2:45PM
				This course surveys museums, from their origins to their most contemporary forms, in the context of broader historical, intellectual, and cultural trends. Anthropology, art, history, and science museums are considered. Cross-listed with Anthropology, History, History of Art.			

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Art

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AS.371.131	01			Studio Drawing I <i>Hankin, Craig</i> Attendance at 1st class is mandatory. This course focuses on developing fundamental drawing skills for the student with little or no previous studio experience. Basic concepts of form and composition will be taught through exercises based on the book, Drawing On The Right Side Of The Brain, and with the aid of still-life setups and live models.	2.00	15	T 1:30-4:50PM
AS.371.131	02			Studio Drawing I	2.00	15	Th 1:30-4:50PM
AS.371.133	01			Painting Workshop I <i>Hankin, Craig</i> Prereq: 371.131 or instructor's permission. This course offers the fundamentals of oil painting techniques for the serious student with minimal prior studio experience. Observational skills are taught through the extensive use of still-life setups, with particular attention paid to issues of light, color, and composition. Slide lectures and a museum trip give students an art historical context in which to place their own discoveries as beginning painters.	2.00	12	W 1:30-4:50PM
AS.371.134	01			Painting Workshop II <i>Gruber, Barbara</i> Prereq: Painting Workshop I (371.133) or equivalent. Students who have mastered basic painting skills undertake sustained projects, including portrait and plein air landscape work. Slide lectures and handouts deepen students' appreciation of representational traditions. Advanced techniques, materials, and compositional issues are also investigated.	2.00	12	M 1:30-4:50PM
AS.371.149	01	H		Visual Reality <i>Bakker, D.S.</i> Prereq: Imagination Freshmen by permission only In art, "Realism" is a simulation of visual reality. But art can also simulate alternative realities, those realities or truths which exist only in daydreams or nightmares. In this class, we will learn to explore and create representations of these additional moments of existence. This will require thinking creatively or "outside the box," a useful skill in any field. Using a variety of media, students are asked to solve problems to which there is no one correct answer.	3.00	12	F 1:30-4:20PM
AS.371.151	01	H		Photoshop/Dig Darkroom <i>Ehrenfeld, Howard</i>	3.00	10	M 10:00AM-12:50PM

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				Photoshop is not only the digital darkroom for processing images created with digital cameras; it is also a creative application for making original artwork. In this course, students use Photoshop software as a tool to produce images from a fine art perspective, working on projects that demand creative thinking while gaining technical expertise. Students will make archival prints, have regular critiques, and attend lectures on the history of the manipulated image and its place in culture. We will look at art movements which inspire digital artists, including 19th century collage, dada, surrealism, and the zeitgeist of Hollywood films. Students must have a digital camera. Prior knowledge of Photoshop is not required. Attendance at first class is mandatory.			
AS.371.152	01	H		Introduction to Digital Photography <i>Ehrenfeld, Howard</i>	3.00	10	T 10:00AM-12:50PM
				Introduction to Digital Photography Students learn to use their digital cameras through a variety of projects, which will help them develop technical and creative skills. Students explore documentary, landscape and portrait photography. Critiques and slide lectures of historic photographs, which range from postmortem daguerreotypes to postmodern digital imagery, help students develop a personal vision. Students gain camera proficiency with one-on-one instruction in the field. Basics for print adjustment and output will be covered. Attendance at first class is mandatory.			
AS.371.162	01	H		Black & White: Digital Darkroom <i>Berger, Phyllis A</i>	3.00	10	W 10:00AM-12:50PM
				Attendance at 1st class is mandatory. In this digital course, students explore the black-and-white aesthetic. They develop camera skills on numerous field trips including Ladew Topiary Gardens, the Maryland Zoo & Botanical Gardens, and an optional weekend trip to Cape Henlopen State Park in Delaware. Students meet frequently for critiques and discussions based on historic and contemporary imagery. They will learn to use Photoshop for image adjustment. Techniques such as high dynamic range, duotone, panorama and infrared will be covered. Students work on a project of their choice and produce a portfolio of ten prints. Digital SLRs are provided.			
AS.371.162	02	H		Black & White: Digital Darkroom	3.00	10	W 2:00-4:50PM
AS.371.164	01			Introduction to Printmaking <i>Premo, Larcia C.</i>	2.00	12	Th 1:30-4:20PM
				Working with non-toxic/water based inks and both an engraving press and hand tools, students will explore several types of printmaking. Methods will include intaglio, collograph and both simple and multi-plate relief. As they develop their prints, students can then observe and exploit the strengths that each method has to offer. Drawing and Photoshop skills are helpful but by no means required.			
AS.371.165	01	H		Location Photography <i>Ehrenfeld, Howard</i>	3.00	10	T 1:30-4:20PM

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				Working in the studio and in various locations, students will learn the fundamentals of lighting interiors and strategies for working in almost any environment. Field trips will include the National Aquarium, Evergreen Museum & Library, a Howard County horse farm, a Tiffany-designed church and a Hampden photo studio. Students will also concentrate on the fine art of printing in our new digital lab. They will develop a final portfolio of 10 photographs which express a personal vision about a location of their choice. A basic knowledge of digital photography is helpful, but not required.			
AS.371.167	01	H		Lens to Page: The Photographer's Book <i>Berger, Phyllis A</i>	3.00	10	M 2:00-4:50PM
				Attendance at first class is mandatory. In this unique course, a photographer, a museum curator, and a book artist mentor students as they create photography books on subjects of their choosing. The class will concentrate on elements of composition, narration, design, and aesthetics. Field trips to view both public and private book collections and libraries will provide historical context for the evolution of book production, while actual shared volumes may serve as inspiration or models for emulation. As final project, each student will create a hardbound book using Blurb software. Fundamentals of Photoshop will be covered. A culminating exhibition affords students the opportunity to showcase their respective volumes at JHU's elegant Evergreen Museum & Library.			
AS.371.303	01	H		Documentary Photography <i>Berger, Phyllis A</i>	3.00	10	F 2:00-4:50PM
				FIRST CLASS IS MANDATORY. In this course, we will explore different genres of documentary photography, including the fine art document, photojournalism, social documentary photography, the photo essay and photography of propaganda. Students will work on a semester-long photo-documentary project on a subject of their choice. Digital SLRs will be provided.			

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Behavioral Biology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.020.153	01	N		General Biology Lab I <i>Pearlman, Rebecca Shari</i> Student must have enrolled in 020.151 either this term or in past terms. Students who have credit for AP Biology but take General Biology Lab I will lose four credits of their overall credit for AP Biology. This course reinforces the topics covered in 020.151. Laboratory exercises explore subjects ranging from forest ecology to molecular biology to animal behavior. Students participate in a semester-long project, identifying bacteria using DNA sequencing. Cross-listed with Behavioral Biology	1.00	44	M 1:30-4:20PM
AS.020.153	02	N		General Biology Lab I	1.00	74	T 1:30-4:20PM
AS.020.153	03	N		General Biology Lab I	1.00	74	W 1:30-4:20PM
AS.020.153	04	N		General Biology Lab I	1.00	66	Th 1:30-4:20PM
AS.020.153	05	N		General Biology Lab I	1.00	44	F 1:30-4:20PM
AS.020.153	06	N		General Biology Lab I	1.00	44	T 9:00-11:50AM
AS.080.330	01	N	W	Brain Injury & Recovery <i>Gorman, Linda K</i> Prereq: (080.305 & 080.306) or (020.312 and 020.306) or (200.141 and 020.306) or Permission of Instructor. This course investigates numerous types of brain injuries and explores the responses of the nervous system to these injuries. The course's primary focus is the cellular and molecular mechanisms of brain injury and the recovery of function. Discussions of traumatic brain injury, stroke, spinal cord, and tumors, using historical and recent journal articles, will facilitate students' understanding of the current state of the brain injury field. Cross-listed with Psychological and Brain Sciences and Behavioral Biology	3.00	30	WF 10:30-11:45AM
AS.200.141	01	NS		Foundations of Brain, Behavior and Cognition <i>Gorman, Linda K</i> Formerly listed as Introduction to Physiopsychology. A survey of neuropsychology relating the organization of behavior to the integrative action of the nervous system. Cross-listed with Behavioral Biology and Neuroscience.	3.00	250	TTh 9:00-10:15AM
AS.200.328	01	S	W	Thry-Mthds/Clinical Psyc <i>Edwin, David H</i> A critical examination of the methods of observation, description, reasoning, inference, measurement and intervention that underlie the clinical practice of psychology and psychiatry. Cross listed with Behavioral Biology. Prereq: 200.212; Junior and Senior Psychology, Behavioral Biology and Cognitive Science majors only OR instructor approval.	3.00	25	M 6:00-8:20PM
AS.200.344	01	NS		Behavioral Endocrinology <i>Ball, Gregory Francis</i>	3.00	70	TTh 9:00-10:15AM

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Behavioral Biology

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				Prereq:(AS.200.141 OR AS.080.305) OR (AS.020.151 & AS.020.152) OR (AS.020.305 & AS.020.306) or Perm. Req'd. - An examination of the effects of hormones on behavior in non-human and human animals. Topics will include the effects of hormones on sexual differentiation, reproductive behavior, parental behavior, homeostasis and biological rhythms, regulation of body weight, learning and memory. Cross-listed with Behavioral Biology and Neuroscience			
AS.290.101	01	NS		Human Origins <i>Holland, Peter C</i> This course examines the origins of human structure, function and behavior from an evolutionary perspective. It includes study of the evolution, behavior and behavioral ecology of nonhuman primates, hominid evolution (including the paleontological and archaeological records), and the origins of human cognition, social behavior and culture. Cross-listed with Psychological and Brain Sciences	3.00	120	TTh 3:00-4:15PM
AS.290.301	01	N		Stress and the Brain <i>Madison, Farrah</i> Prereqs: 020.306 or (050.203 or 080.203) or 200.141 or (080.305 and 080.306). The purpose of this course is to explore the phenomenon of stress by investigating the neural, endocrine and molecular mechanisms involved. By reviewing both animal and human research, this course will consider disorders of the stress control system and the adverse impact of stress on human physical and mental health. Topics in this class will include, but are not limited to I) disorders such as PTSD, anxiety, major depression; II) interactions between stress and neurodegenerative disorders; III) stress-immune-inflammatory interactions; IV) the role of stress in obesity, hypertension, and other metabolic syndromes; V) stress effects on reproduction. Students will finish this course with a greater understanding for the fundamental neuroendocrine responses to stress and its consequent and/or associated adverse effects on human health.	3.00	19	WF 9:00-10:15AM
AS.290.420	01	S	W	Human Sexual Orientation <i>Kraft, Chris S</i> Limited to Juniors and Seniors with PBS, Neuroscience, Public Health, Behavioral Biology, and Biology majors, or Juniors and Seniors with PBS or Women's Studies minors. This course will examine the historical and current theories of sexual orientation and sexual variation development by examining the biological, psychological and social contributing factors that influence the development of sexual orientations and variations along with treatment and modification of problematic sexual behaviors.	3.00	25	T 3:00-5:30PM
AS.290.490	01	S		Sr Sem: Behavioral Bio <i>Holland, Peter C</i>	1.00	12	W 9:00-9:50AM

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Behavioral Biology

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Great ideas in Behavioral Biology. Discussion of classic and cutting edge articles in the original literature. Student presentations and reaction papers. Capstone course for senior Behavioral Biology majors.

Fall 2013

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Biology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.020.104	01	N		Fresh Sem: From Genes to DNA and Back <i>Moudrianakis, E N</i> Freshmen Only. Students must obtain permission from Dr. Moudrianakis to register. A course consisting of introductory lectures followed by student presentations in the form of seminars. The issues analyzed will be: How did we arrive at the concept of the "gene"? Early experiments that gave substance to this concept. How did we arrive at the "one gene, one enzyme" dogma? What is the chemical nature of the gene? Is DNA enough for regulated gene expression? Is it "all in our genes"? What is genetic plasticity and epigenetics? What about genomics and proteomics?	1.50	25	W 3:00-4:20PM
AS.020.106	01	N		Fresh Sem: Tuberculosis <i>Horner, Robert D</i> Freshmen only Limit 12 Mycobacterium tuberculosis is an extremely successful intracellular bacterial pathogen able to manipulate phagocytic cells and its own metabolism to survive within a host. The molecular mechanisms of this survival and resistance to antibiotics will be studied.	1.00	12	T 3:00-3:50PM
AS.020.135	01	N		Project Lab: Phage Hunting <i>Schildbach, Joel F</i> Freshmen only This is an introductory course open to all freshman regardless of intended major. No science background is required. This is the first semester of a year-long research-based project lab course in which students will participate in a nation-wide program in collaboration with undergraduates at other colleges. Students will isolate and characterize novel bacteriophages (viruses that infect bacteria) from the environment using modern molecular biological techniques. The course includes two lab meetings per week. Continues in the spring. Each semester provides 2 credit hours of Natural Sciences (N) distribution credits and/or counts 2 hours toward the research requirement for the Molecular and Cellular Biology degree. No textbook is required.	2.00	20	W 2:30-3:20PM; W 3:30-5:00PM
AS.020.135	02	N		Project Lab: Phage Hunting <i>Fisher, Emily J</i>	2.00	20	TTh 9:00-9:50AM; TTh 10:00-11:30AM
AS.020.151	01	N		General Biology I <i>Pearlman, Rebecca Shari</i>	4.00	200	MWF 12:00-12:50PM; T 12:00-12:50PM

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Biology

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				<p>Note: The Tuesday workshop is a required part of this course.</p> <p>This course begins with an overview of the biosphere, followed by analysis of ecosystem and exploration of animal behavior in the context of ecosystems and evolution. Next, the cellular and molecular basis of life and the energetics of organisms are presented as unifying themes. The biochemistry of organic molecules, factors controlling gene expression, cellular metabolism, and advances in biotechnology represent topics of concentration. Mechanisms of inheritance and evolution are introduced. This course will also include a series of workshops that will explore current trends in research, experimental design and analysis, and molecular modeling.</p> <p>Cross-listed with Behavioral Biology</p>			
AS.020.151	02	N		General Biology I <i>Shingles, Richard</i>	4.00	225	TTh 12:00-1:20PM
AS.020.153	01	N		General Biology Lab I <i>Pearlman, Rebecca Shari</i>	1.00	44	M 1:30-4:20PM
				<p>Student must have enrolled in 020.151 either this term or in past terms. Students who have credit for AP Biology but take General Biology Lab I will lose four credits of their overall credit for AP Biology.</p> <p>This course reinforces the topics covered in 020.151. Laboratory exercises explore subjects ranging from forest ecology to molecular biology to animal behavior. Students participate in a semester-long project, identifying bacteria using DNA sequencing.</p> <p>Cross-listed with Behavioral Biology</p>			
AS.020.153	02	N		General Biology Lab I	1.00	74	T 1:30-4:20PM
AS.020.153	03	N		General Biology Lab I	1.00	74	W 1:30-4:20PM
AS.020.153	04	N		General Biology Lab I	1.00	66	Th 1:30-4:20PM
AS.020.153	05	N		General Biology Lab I	1.00	44	F 1:30-4:20PM
AS.020.153	06	N		General Biology Lab I	1.00	44	T 9:00-11:50AM
AS.020.161	01	N		Biology Workshop I <i>Pearlman, Rebecca Shari</i>	1.00	35	T 12:00-12:50PM
				<p>Prereq: Score of 4 or 5 on AP Biology exam</p> <p>The workshop covers applications and current trends in Biology through guest lectures from researchers and hands-on computer programs.</p>			
				<p>Credit will be awarded for EITHER 020.151 or 020.161, but not both.</p>			
AS.020.302	31	N		JHU/Oxford: Physiological Systems <i>Schildbach, Joel F</i>	3.00	6	TBA

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AS.020.305	01	N		Biochemistry <i>Fisher, Emily J</i> Prereq: 030.206 or 030.212 or a prereq or coreq of EN.540.202 Sophomores, Juniors, and Seniors Only. The molecules responsible for the life processes of animals, plants, and microbes will be examined. The structures, biosynthesis, degradation, and interconversion of the major cellular constituents including carbohydrates, lipids, proteins, and nucleic acids will illustrate the similarity of the biomolecules and metabolic processes involved in diverse forms of life.	4.00	470	MWF 12:00-1:20PM
AS.020.305	31	N		JHUBiochemistry <i>Schildbach, Joel F</i>	4.00	10	TBA
AS.020.315	01	N		Biochemistry Lab <i>Horner, Robert D</i> Pre/Co-requisite: 020.305 OR 250.307. Sections 6-10 are for BIOLOGY AND MOLECULAR & CELLULAR BIOLOGY MAJORS ONLY. This course will reinforce the topics presented in Biochemistry 020.305 or 250.307 through laboratory exercises which use quantitative measurement to study cellular components and processes. Topics include pH, proteins, carbohydrates, lipids, nucleic acids, and enzymes.	2.00	40	M 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	02	N		Biochemistry Lab	2.00	40	T 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	04	N		Biochemistry Lab	2.00	40	Th 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	05	N		Biochemistry Lab	2.00	40	F 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	06	N		Biochemistry Lab	2.00	40	M 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	07	N		Biochemistry Lab	2.00	40	T 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	08	N		Biochemistry Lab	2.00	40	W 2:30-5:30PM; W 1:30-2:20PM
AS.020.315	09	N		Biochemistry Lab	2.00	40	Th 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	10	N		Biochemistry Lab	2.00	40	F 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	31	N		Biochemistry Lab <i>Schildbach, Joel F</i>	2.00	6	TBA; TBA
AS.020.329	01	N		Microbiology <i>Diruggiero, Jocelyne</i> Prereq: 020.305 (Biochemistry) This course explores the physiology and genetics of microorganisms within an evolutionary and ecological framework. Concepts in microbiology will be supported by molecular studies of microbial evolution and microbial communities including that of the human microbiome.	3.00	37	TTh 2:30-3:45PM
AS.020.330	01	N		Genetics <i>Hoyt, Myles Andrew</i> Recommended pre-reqs 020.305 and 020.306; recommended co-req 020.340 Presentation of the principles of heredity and variation, and their application to evolution and development; physico-chemical nature of the gene; problems of recombination; gene action.	3.00	320	MWF 10:00-10:50AM
AS.020.330	31	N		Genetics <i>Schildbach, Joel F</i>	3.00	6	TBA
AS.020.334	01	N		Planets, Life and the Universe <i>Diruggiero, Jocelyne</i>	3.00	38	MWF 11:00-11:50AM

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Biology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereqs: Three upper level (300+) courses in sciences (Biophysics, Biology, Chemistry, Physics, Astronomy, Math or Computer Science) This multidisciplinary course explores the origins of life, planets' formation, Earth's evolution, extrasolar planets, habitable zones, life in extreme environments, the search for life in the Universe, space missions and planetary protection.			
AS.020.340	01	N		Genetics Lab <i>Norris, Carolyn R</i>	2.00	22	T 1:30-5:20PM
				Prereq: 020.315 Biochemistry; Recommended prereq: 020.316 Cell Biology Labs; Coreq: 020.330. This laboratory explores the genetics of living organisms, and students in each section will therefore be required to return to lab on succeeding days to observe and record the results of their experiments.			
AS.020.340	02	N		Genetics Lab	2.00	22	W 1:30-5:20PM
AS.020.340	03	N		Genetics Lab	2.00	22	Th 1:30-5:20PM
AS.020.340	04	N		Genetics Lab	2.00	11	T 1:30-5:20PM
AS.020.340	05	N		Genetics Lab	2.00	14	W 1:30-5:20PM
AS.020.340	06	N		Genetics Lab	2.00	11	Th 1:30-5:20PM
AS.020.340	07	N		Genetics Lab	2.00	22	W 5:30-9:30PM
AS.020.350	01	N		Intro to Clinical Medicine <i>Merritt, William T</i>	1.00	35	M 6:30-8:50PM
				Perm. Req'd. Post-Bac Students Only			
AS.020.379	01	N		Evolution <i>Norris, Carolyn R</i>	3.00	25	MF 12:00-1:15PM
				Prereq: 020.306, 020.330, or Perm. Req'd This course takes a broad look at the impact of Natural Selection and other evolutionary forces on evolution. Emphasis is placed on what we can learn from genome sequences about the history of life, as well as current evolutionary pressures.			
AS.020.380	01	N		Eukaryotic Molecular Biology <i>Moudrianakis, E N</i>	3.00	50	TTh 1:30-2:45PM
				The field of molecular biology is fundamental for those interested in modern biological research and medicine. In this course students examine DNA, RNA and protein synthesis (i.e., the "central dogma" of molecular biology) in molecular detail, as well as how these processes are regulated and interrelated. There is significant examination of molecular structure-function relationships, with particular emphasis on RNA synthesis and processing and chromosomal organization, nucleosome regulation and epigenetics. Modern and fundamental experimental techniques and concepts are explored in detail. Students will learn how to use some genome databases and bioinformatics tools available online to improve their molecular biology research skills and knowledge. Readings are both from scientific journals as well as a textbook that includes interactive online content.			
AS.020.401	01	N		Adv. Sem: Molec/Cell Bio <i>Tiff, Kathryn</i>	3.00	20	W 6:00-9:00PM

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Biology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				MS candidates only This is a weekly seminar designed for graduate students enrolled in the B.A./M.S. or B.S./M.S. program. The seminar involves student presentations of research and discussion of topics of current interest in the field.			
AS.020.420	01	N		Build-a-Genome <i>Boeke, Jef D</i> Prereq: Permission of instructor; Must understand fundamentals of DNA structure, DNA electrophoresis and analysis, Polymerase Chain Reaction (PCR) and must be either a) Experienced with molecular biology lab work or b) Adept at programming with a biological twist. In this combination lecture/laboratory "Synthetic Biology" course students will learn how to make DNA building blocks used in an international project to build the world's first synthetic eukaryotic genome, <i>Saccharomyces cerevisiae</i> v. 2.0. Please study the wiki www.syntheticyeast.org for more details about the project. Following a biotechnology boot-camp, students will have 24/7 access to computational and wet-lab resources and will be expected to spend 15-20 hours per week on this course. Advanced students will be expected to contribute to the computational and biotech infrastructure. Co-listed with 580.420, 020.451 and 540.420 - Successful completion of this course provides 3 credit hours toward the supervised research requirement for MCB Majors, or 2 credit hours toward the upper level elective requirement for Biology or MCB majors.	4.00	10	MWF 5:00-6:20PM
AS.020.441	01	N		Mentoring in Biology <i>Pearlman, Rebecca Shari</i> S/U only Perm. Req'd Prereq: Successful completion 020.151/152 To become a mentor, students must have successfully completed 020.151/152, must apply using the form on the Biology Dept. Website, and must be accepted by the instructors. The deadline to apply is April 8th. This course provides students who have taken General Biology I & II the opportunity to mentor new students in General Biology I & II. Mentors collaborate with faculty on how to lead effective sessions, help student teams complete team assignments, and generally help students understand difficult concepts and principles in biology. Mentors must have a firm command of the topics covered in biology and must meet with both faculty and students through the course of the semester.	1.00	22	F 1:10-1:20PM
AS.020.441	02	N		Mentoring in Biology	1.00	12	F 1:30-1:40PM
AS.020.451	01	N		Build-a-Genome Mentor <i>Boeke, Jef D</i>	4.00	10	MWF 5:00-6:20PM

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Biology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: Permission of instructor; Must understand fundamentals of DNA structure, DNA electrophoresis and analysis, Polymerase Chain Reaction (PCR) and must be either a) Experienced with molecular biology lab work or b) Adept at programming with a biological twist. In this combination lecture/laboratory "Synthetic Biology" course students will learn how to make DNA building blocks used in an international project to build the world's first synthetic eukaryotic genome, <i>Saccharomyces cerevisiae</i> v. 2.0. Please study the wiki www.syntheticyeast.org for more details about the project. Following a biotechnology boot-camp, students will have 24/7 access to computational and wet-lab resources and will be expected to spend 15-20 hours per week on this course. Advanced students will be expected to contribute to the computational and biotech infrastructure. Co-listed with 580.420, 540.420, and 020.420.			
AS.080.305	01	N		The Nervous System I <i>Hendry, Stewart H</i> "No Freshmen" Prereq: 080.203 or 200.141 or 050.203 or 080.105 or Permission - The Nervous System is a fully integrated, two-semester course that surveys the cellular and molecular biology of neurons as well as the structure and function of the nervous system. Cross-listed with Biology.	3.00	196	TTh 1:30-2:45PM
AS.250.351	01	N		Reproductive Physiology <i>Zirkin, Barry R</i> Focuses on reproductive physiology and biochemical and molecular regulation of the female and male reproductive tracts. Topics include the hypothalamus and pituitary, peptide and steroid hormone action, epididymis and male accessory sex organs, female reproductive tract, menstrual cycle, ovulation and gamete transport, fertilization and fertility enhancement, sexually transmitted diseases, and male and female contraceptive methods. Introductory lectures on each topic followed by research-oriented lectures and readings from current literature. Cross listed with Biology. Prerequisite: AS.020.305	2.00	90	W 3:00-4:45PM

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Biophysics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.250.131	01	N		Tpcs-Biophysics Research <i>Fleming, Karen G</i> Freshmen and sophomores only. S/U grading only. Introduction of contemporary biophysics research topics through presentations, discussion and hands-on exercise.	1.00	45	W 2:30-3:50PM
AS.250.205	01	N		Introduction to Computing <i>Fitch, Carolyn A</i> Course introduces students to the use of computers for applications in many areas (natural and social sciences, humanities, and engineering). Students will obtain basic computing skills and tools, including familiarity with UNIX, with the use of complex UNIX commands (e.g grep, awk, sed) and shell scripts, with the Python programming language, with graphing software and with a package for numerical and statistical computing, such as Mathematica or Matlab. Brief weekly lectures followed by extensive hands-on computer laboratories with examples from many disciplines. No prerequisites.	3.00	15	MW 1:30-2:45PM
AS.250.253	01	N		Protein Engineering and Biochemistry Lab <i>Fitch, Carolyn A</i> Instructor permission required. Entry-level project laboratory. Protein engineering and biotechnology techniques used to modify proteins to give them new structural or physical properties. Students introduced to standard biochemistry laboratory practice and protein science; perform experiments in site-directed mutagenesis, protein purification and structural and physical characterization of biological macromolecules.	3.00	5	T 1:30-6:00PM
AS.250.307	01	N		Biochemistry I <i>Fleming, Patrick</i> Instructor permission required. Foundation for advanced classes in Biophysics and other quantitative biological disciplines. Topics include chemical, physical, and energetic principles of biochemistry. Lecture and computer laboratory.	4.00	36	MWF 11:00-11:50AM
AS.250.345	01	N		Cellular/Molecular Phys <i>Cone, Richard A</i> How cells and molecules function as parts of whole organisms. Topics include speeds of diffusion, motor proteins, and animal motility; bacterial size, shape, and chemotaxis; sensory and neuronal mechanisms; osmosis; mucosal protective mechanisms; cellular and organismic circulation and respiration.	3.00	60	MWF 11:00-11:50AM
AS.250.351	01	N		Reproductive Physiology <i>Zirkin, Barry R</i>	2.00	90	W 3:00-4:45PM

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Biophysics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Focuses on reproductive physiology and biochemical and molecular regulation of the female and male reproductive tracts. Topics include the hypothalamus and pituitary, peptide and steroid hormone action, epididymis and male accessory sex organs, female reproductive tract, menstrual cycle, ovulation and gamete transport, fertilization and fertility enhancement, sexually transmitted diseases, and male and female contraceptive methods. Introductory lectures on each topic followed by research-oriented lectures and readings from current literature. Cross listed with Biology. Prerequisite: AS.020.305			
AS.250.353	01	N		Computational Biology <i>Fleming, Patrick</i> This course introduces several computational approaches to the study of biological macromolecules. Students will learn to use computational tools to analyze protein structure and to develop a basic understanding of computer programming. The focus is biological rather than mathematical, and no programming experience is required. Prerequisites: (AS.020.305 OR AS.250.307) AND AS.030.101 AND 030.102	3.00	15	TTh 10:30-11:45AM
AS.250.381	01	N		Spectroscopy and Its Application in Biophysical Reactions <i>Lecomte, Juliette</i> Continues Biophysical Chemistry (250.372). Fundamentals of quantum mechanics underlying various spectroscopies (absorbance, circular dichroism, fluorescence, NMR); application to characterization of enzymes and nucleic acids.	3.00	20	MWF 10:00-10:50AM
AS.250.381	31	N		Spectroscopy and Its Application in Biophysical Reactions <i>Schildbach, Joel F</i>	3.00	6	TBA
AS.250.421	01		W	Advanced Seminar in Membrane Protein Structure, Function & Pharmacology <i>Fleming, Karen G</i> Topics are meant to illustrate the physical basis of membranes and membrane proteins towards understanding their functions and pharmacological importance including aspects of drug design as it relates to membranes. Contemporary issues in the field will be covered using primary literature articles, structural manipulations in pymol, and computational binding simulations. Prerequisites: Organic Chemistry 030.205, Biochemistry 250.307 and Introduction to Biophysics Chemistry 250.372	3.00		T 2:30-4:20PM

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Center for Africana Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.100.439	01	HS	W	Cuban Revolution and the Contemporary Caribbean <i>Knight, Franklin</i>	3.00	18	TTh 9:00-10:15AM
AS.130.400	01	H		Intro to Middle Egyptian <i>Jasnow, Richard</i> Introduction to the grammar and writing system of the classical language of the Egyptian Middle Kingdom (ca. 2055-1650 B.C.). In the second semester, literary texts and royal inscriptions will be read. Course meets with AS.133.600	3.00	16	M 1:30-2:30PM; W 1:30-3:00PM; F 1:30-2:30PM
AS.190.384	01	S		Urban Politics & Policy <i>Spence, Lester</i> An analysis of public policy and policy-making for American Cities. Special attention will be given to the subject of urban crime and law enforcement, poverty and welfare, and intergovernmental relations. (AP) Cross-listed with Africana Studies	3.00	40	M 3:00-5:50PM
AS.210.177	01			Portuguese Elements <i>Bensabat Ott, Mary M</i> This one-year course introduces students to the basic skills in reading, writing, and speaking the language. Emphasis is placed on oral communication with, however, extensive training in written and listening skills. Class participation is encouraged from the very beginning. All classes are conducted in Portuguese. Extensive language lab is required. Students must complete both semesters with passing grades to receive credit. May not be taken on a satisfactory/unsatisfactory basis. No previous knowledge of Portuguese is required.	4.00	25	MWF 11:00-11:50AM
AS.210.277	01	H		Intermediate/ Advanced Portuguese <i>Bensabat Ott, Mary M</i> More advanced training in the skills of the language with emphasis on vocabulary building, ease and fluency in the language through the use of a multifaceted approach. Materials used immerse students in the cultures of Brazil, Portugal, and Portuguese-speaking Africa, and reflect the mix of cultures at work in the contemporary Lusophone world. All classes are conducted in Portuguese. Extensive language lab is required. May not be taken on a satisfactory/unsatisfactory basis. Pre-requisites: AS.210.177/178, or placement test.	3.00	12	MWF 10:00-10:50AM
AS.210.391	01	H	W	Advanced Portuguese Language & Literature <i>Bensabat Ott, Mary M</i> This third-year course focuses on reading, writing, and oral expression. Under the supervision of the instructor, students will read one or two complete works by major Brazilian, Portuguese, and/or Afro-Portuguese writers each semester, followed by intense writing and oral discussion on the topics covered. Grammar will be reviewed as necessary. Lab work is required. All classes are conducted in Portuguese. Prereq: 210.277.278 or placement exam . Permission Req'd.	3.00	25	MWF 9:00-9:50AM
AS.230.208	01	S		Introduction to Race and Ethnicity	3.00	40	TTh 3:00-4:15PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>McDonald, Katrina Bell</i> This course offers an historical overview of race and ethnicity in American society, and the processes that have led to ethnic and racial boundaries. We explore the social dynamics of racial/ethnic hostility and racial/ethnic protest movements. In addition, we examine how race and ethnicity have been used to justify segregation, domination and genocide, but also to create a sense of community, shared responsibility and belonging. Cross-listed with Africana Studies			
AS.362.104	01	H	W	Introduction to the African Diaspora <i>Romero, Patricia</i> This course will begin in Africa before Atlantic slave trade, move to cover that trade into Brazil, the Caribbean and South Carolina. Comparisons of slave systems with Africa, Brazil, some parts of the Caribbean and Carolina (later South Carolina).	3.00	15	Th 2:00-4:30PM
AS.362.111	01	HS	W	Introduction to African American Studies <i>McDonald, Katrina Bell</i> This course is an introduction to the origins and emergence of African American Studies as an academic discipline in the American academy. The course is centered on the social realities of people of African descent living in the United States.	3.00	30	TTh 10:30-11:45AM
AS.362.202	01	H		The History of Black Americans, Part I: 1619-1917 <i>Connolly, Nathan D</i> This survey course addresses the making and historical experiences of African Americans from the early seventeenth century to the conclusion of World War I.	3.00	100	MWF 10:00-10:50AM
AS.362.340	01	S	W	Power and Racism <i>Hayes, Floyd, III.</i> This course investigates the impact of white supremacy and anti-black racism, as a global system of power, on the political development of the United States of America.	3.00	15	T 1:30-3:50PM
AS.362.346	01	HS	W	Critical Thinking, Sports, and the African American Experience <i>Hayes, Floyd, III.</i> This course examines the influence of sports on American history and how that history has affected black athletes. A critical approach emphasizes the interrelationship of race, class, and gender domination.	3.00	15	Th 1:30-3:50PM

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Center for Language Education

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.373.111	01			First Year Heritage Chinese <i>Lievens, Liman</i> This course is designed for students who were raised in an environment in which Chinese is spoken by parents or guardians at home and for those who are familiar with the language and possess native-like abilities in comprehension and speaking. The course therefore focuses on reading and writing (including the correct use of grammar). Cross-listed with East Asian Studies	3.00	16	MWF 11:00-11:50AM
AS.373.111	02			First Year Heritage Chinese	3.00	16	MWF 12:00-12:50PM
AS.373.115	01			First Year Chinese <i>Li, Lu</i> This course is designed primarily for students who have no prior exposure to Chinese. The objective of the course is to help students build a solid foundation of the four basic skills--listening, speaking, reading, and writing in an interactive and communicative learning environment. The emphasis is on correct pronunciation, accurate tones and mastery of basic grammatical structures. Note: Students with existing demonstrable skills in spoken Chinese should take 373.111-112. No Satisfactory/ Unsatisfactory. Students may choose to attend either lecture at 9am or 3pm on TTh. Cross-listed with East Asian Studies	4.50	16	MWF 9:00-9:50AM; TTh 9:00-9:50AM
AS.373.115	02			First Year Chinese	4.50	16	MWF 11:00-11:50AM; TTh 9:00-9:50AM
AS.373.115	03			First Year Chinese	4.50	16	TTh 3:00-3:50PM; MWF 12:00-12:50PM
AS.373.115	04			First Year Chinese	4.50	16	MWF 3:00-3:50PM; TTh 3:00-3:50PM
AS.373.211	01	H		Second Year Heritage Chinese <i>Chen, Aiguo</i> This course is designed for students who finished 373.111 with C+ and above (or equivalent). Students in this course possess native-like abilities in comprehension and speaking. The course focuses on reading and writing. Cross-listed with East Asian Studies	3.00	16	MWF 11:00-11:50AM
AS.373.211	02	H		Second Year Heritage Chinese	3.00	16	MWF 12:00-12:50PM
AS.373.215	01	H		Second Year Chinese <i>Chen, Aiguo</i> Consolidation of the foundation that students have laid in their first year of study and continued drill and practice in the spoken language, with continued expansion of reading and writing vocabulary and sentence patterns. Students will work with both simplified and traditional characters. Note: Students who have native-like abilities in comprehension and speaking should take 373.115 or equivalent. Cross-listed with East Asian Studies	4.50	16	MWF 9:00-9:50AM; TTh 12:00-12:50PM
AS.373.215	02	H		Second Year Chinese	4.50	16	MWF 11:00-11:50AM; TTh 3:00-3:50PM
AS.373.215	03	H		Second Year Chinese	4.50	16	MWF 12:00-12:50PM; TTh 3:00-3:50PM
AS.373.313	01	H		Third Year Heritage Chinese <i>Chen, Aiguo</i>	3.00	16	MWF 10:00-10:50AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course is designed for those who have already taken 373.212 or equivalent. Students need to have native-level fluency in speaking and understanding Chinese. The course focuses on reading and writing. In addition to the textbooks, downloaded articles on current affairs may also be introduced on a regular basis. Cross-listed with East Asian Studies			
AS.373.315	01	H		Third Year Chinese <i>Lievens, Liman</i> Prereq: 373.216 or equivalent This two-semester course consolidates and further expands students' knowledge of grammar and vocabulary and further develops reading ability through work with textbook material and selected modern essays and short stories. Class discussions will be in Chinese insofar as feasible and written assignments will be given. Cross-listed with East Asian Studies	3.00	16	MWF 10:00-10:50AM
AS.373.415	01	H		Fourth Year Chinese <i>Lievens, Liman</i> Prereq: 373.315 This course is designed for students who finished 373.316 with a C+ or above (or equivalent). Readings in modern Chinese prose, including outstanding examples of literature, newspaper articles, etc. Students are supposed to be able to understand most of the readings with the aid of a dictionary, so that class discussion is not focused primarily on detailed explanation of grammar. Discussion, to be conducted in Chinese, will concentrate on the cultural significance of the readings' content. Cross-listed with East Asian Studies	3.00	16	MWF 3:00-3:50PM
AS.375.115	01			First Year Arabic <i>Abdallah, Fadel</i> Introductory course in speaking, listening, reading, and writing Modern Standard Arabic. Presents basic grammatical structures and a basic vocabulary. Through oral-aural drill in classroom, tapes in Language Laboratory, and reading/writing exercises, students attain a basic level of competence on which they can build in subsequent years of study. No Satisfactory/ Unsatisfactory	4.50	16	MTWThF 9:00-9:50AM
AS.375.115	02			First Year Arabic	4.50	16	MTWThF 10:00-10:50AM
AS.375.115	03			First Year Arabic	4.50	16	MWF 8:00-8:50AM; TTh 9:00-9:50AM
AS.375.215	01	H		Second Year Arabic <i>Abdallah, Fadel</i> Prereq: 375.115-116 or equivalent Designed to bring students up to competency level required for third/fourth year Arabic. Students will consolidate and expand their mastery of the four basic skills acquired in 375.115-116. More authentic material--written, audio, and visual--will be used, and culture will be further expanded on as a fifth skill.	4.00	16	MTWTh 12:00-12:50PM
AS.375.215	02	H		Second Year Arabic	4.00	16	MTWTh 3:00-3:50PM
AS.375.301	01	H		Third Year Arabic <i>Abdallah, Fadel</i>	3.00	16	MW 1:30-2:45PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: 375.216 or equivalent Designed to enhance students' ability to read, discuss, and write about various topics covered in traditional and contemporary Arabic texts			
AS.375.401	01	H		Fourth Year Arabic <i>Tahrawi, Khalil</i>	3.00	16	MWF 11:00-11:50AM
				This is an introductory course to different periods of the Arabic literature. Selections of famous Arabic poetry and short prose works are the substance of the course.			
AS.377.131	01			Elements of Russian I <i>Samilenko, Olya</i>	4.00	16	MTWF 9:00-9:50AM
				Designed to give student a firm foundation in the language, with special emphasis on the development of vocabulary, basic reading, and conversational skills. (Section 02 taught at Goucher College)			
AS.377.131	02			Elements of Russian I <i>Czeczulin, Annalisa</i>	4.00	55	MTWF 2:00-3:00PM
AS.377.208	01	H		Int Intermediate Russian <i>Czeczulin, Annalisa</i>	4.00	16	MTWF 10:00-10:50AM
				Prereq. 377.132 Intensive oral work; continued emphasis on grammar and reading comprehension.			
AS.377.208	02	H		Int Intermediate Russian	4.00	16	MTWF 1:00-1:50PM
AS.377.211	01	H		Intro to Russian Lit I <i>Samilenko, Olya</i>	3.00	16	MWF 10:00-10:50AM
				This first intensive reading course of the literary sequence focuses on a survey of major writers, genres, and literary movements of mid-nineteenth century Russia including select works of Pushkin, Gogol, Lermontov, Turgenev, Tolstoy and Dostoevsky adapted to the intermediate level.			
AS.377.269	01	H	W	The Russian Fairy Tale <i>Czeczulin, Annalisa</i>	3.00	18	MWF 12:00-1:00PM
				A survey course of Russian oral and subsequent written tradition using multimedia and presented against the background of the Indo-European tradition. Taught in English at Goucher College			
AS.377.395	01	H	W	Seminar I: The Realists <i>Samilenko, Olya</i>	3.00	16	MWF 11:00-11:50AM
				Course covers the works of Turgenev, Tolstoy, and Dostoevsky. All readings, discussions, and assignments in Russian.			
AS.378.115	01			First Year Japanese <i>Katagiri, Satoko</i>	4.50	16	MWF 10:00-10:50AM; TTh 10:30-11:30AM

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Center for Language Education

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course is designed for students who have no background or previous knowledge in Japanese. The course consists of lectures on Tuesday/Thursday and conversation classes on Monday/Wednesdays/Fridays. The goal of the course is the simultaneous progression of four skills (speaking, listening, writing, and reading) as well as familiarity with aspects of Japanese culture. By the end of the year, students will have basic speaking and listening comprehension skills, a solid grasp of basic grammar items, reading and writing skills, and a recognition and production of approximately 150 kanji in context. Knowledge of grammar will be expanded significantly in 373.215. No Satisfactory/ Unsatisfactory. Student may choose to attend either lecture at 10:30 am or 12 pm on TTH. Cross-listed with East Asian Studies			
AS.378.115	02			First Year Japanese	4.50	16	TTh 12:00-12:50PM; MWF 11:00-11:50AM
				<i>Nakao, Makiko Pennington</i>			
AS.378.115	03			First Year Japanese	4.50	16	MWF 12:00-12:50PM; TTh 12:00-12:50PM
				<i>Katagiri, Satoko</i>			
AS.378.215	01	H		Second Year Japanese	4.50	16	MWF 11:00-11:50AM; TTh 10:30-11:20AM
				<i>Nakao, Makiko Pennington</i> Prereq: 378.115 & .116 or equivalent Training in spoken and written language, increasing their knowledge of more complex patterns. At completion, students will have a working knowledge of about 250 Kanji. Cross-listed with East Asian Studies			
AS.378.215	02	H		Second Year Japanese	4.50	16	MTWThF 12:00-12:50PM
				<i>Katagiri, Satoko</i>			
AS.378.315	01	H		Third Year Japanese	3.00	16	MWF 1:30-2:20PM
				<i>Katagiri, Satoko</i> Prereq: 378.215-216 Emphasis shifts toward reading, while development of oral-aural skills also continues apace. The course presents graded readings in expository prose and requires students to expand their knowledge of Kanji, grammar, and both spoken and written vocabulary. Cross-listed with East Asian Studies			
AS.378.396	01	H		Fundamentals of Japanese Grammar	2.00	16	Th 3:00-5:00PM
				<i>Johnson, Mayumi Yuki</i> Prerequisite: 378.115-116 or equiv. This course is designed for students who have already studied 1st-year Japanese grammar and wish to develop a thorough knowledge of Japanese grammar in order to advance all aspects of language skills to a higher level. It is also appropriate for graduate students who need to be able to read materials written in Japanese.			
AS.378.415	01	H		Fourth Year Japanese	3.00	16	TTh 9:00-10:15AM
				<i>Nakao, Makiko Pennington</i>			

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: 378.315 and .316 or equivalent By using four skills in participatory activities (reading, presentation, and discussion), students will develop reading skills in modern Japanese and deepen and enhance their knowledge on Kanji and Japanese culture. Cross-listed with East Asian Studies			
AS.380.101	01			First Year Korean <i>Kang, Choonwon</i> Introduces the Korean alphabet, hangeul. Covers basic elements of the Korean language, high-frequency words and phrases, including cultural aspects. Focuses on oral fluency reaching Limited Proficiency where one can handle simple daily conversations. No Satisfactory/ Unsatisfactory. Cross-listed with East Asian Studies	3.00	16	MWF 9:00-9:50AM
AS.380.201	01	H		Second Year Korean <i>Kang, Choonwon</i> Prereq: Existing demonstrable skills in spoken Korean Aims for improving oral proficiency and confident control of grammar with vocabulary building and correct spelling intended. Reading materials of Korean people, places, and societies will enhance cultural understanding and awareness. Project due on Korean cities. Cross-listed with East Asian Studies	3.00	16	MWF 10:00-10:50AM
AS.380.301	01	H		Third Year Korean <i>Kang, Choonwon</i> Emphasizes reading literacy in classic and modern Korean prose, from easy essays to difficult short stories. Vocabulary refinement and native-like grasp of grammar explored. Project due on Korean culture. Cross-listed with East Asian Studies	3.00	16	MWF 8:00-8:50AM
AS.381.101	01			First Year Hindi I <i>Saini, Uma</i> Lab Req'd. Course focuses on acquisition of additional vocabulary and grammatical structures in culturally authentic contexts, listening, speaking, reading, and writing comprehension. No Satisfactory/ Unsatisfactory	3.00	16	TTh 10:30-11:45AM
AS.381.101	02			First Year Hindi I	3.00	16	TTh 3:00-4:20PM
AS.381.201	01	H		Second Year Hindi I <i>Saini, Uma</i> Prereq: 381.101-102 Course provides refinement of basic language skills in cultural context. Emphasis will be on expansion of vocabulary and grammatical structures and further development of communicative skills.	3.00	16	TTh 4:30-5:50PM
AS.381.301	01	H	W	Third Year Hindi I <i>Staff</i> Prerequisite: 381.201-202 Promotes the active use of Hindi in culturally authentic contexts. Development of fluency in oral and written communication is emphasized.	3.00	16	MW 4:30-5:45PM
AS.384.115	01			First Year Hebrew <i>Cohen, Zvi</i>	4.00	16	MTWTh 9:00-9:50AM

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				Designed to provide reading and writing mastery, to provide a foundation in Hebrew grammar and to provide basic conversational skills. Cross-listed with Jewish Studies.			
AS.384.215	01	H		Second Year Hebrew	4.00	16	MW 10:00-10:50AM; TTh 10:30-11:20AM
				<i>Cohen, Zvi</i> Prereqs: 384.115 and 384.116 or 130.450 and 451			
				Designed to enrich vocabulary and provide intensive grammatical review, and enhance fluency in reading, writing and comprehension. Cross-listed with Jewish Studies.			
AS.384.315	01	H		Third Year Hebrew	4.00	16	MTWTh 2:30-3:20PM
				<i>Cohen, Zvi</i> Prereqs: 384.215 and 384.216 or 130.452 and 130.453			
				Designed to: maximize comprehension and the spoken language through literary and newspaper excerpts providing the student with the language of an educated Israeli. Cross-listed with Jewish Studies.			

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Chemistry

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.030.101	01	N		Introductory Chemistry I <i>Staff</i> Corequisite: 030.105. Switching sections requires instructor's approval. An introduction to the fundamental principles of chemistry. The main topics to be covered are atomic and molecular structure at the level of dot structures and VSEPR geometries, the periodic table, stoichiometry and the balancing of chemical equations, the gas laws, the law of mass action and chemical equilibrium, acids and bases, and elementary chemical thermodynamics.	3.00	300	MWF 9:00-9:50AM
AS.030.101	02	N		Introductory Chemistry I	3.00	300	MWF 10:00-10:50AM
AS.030.103	01	N		Applied Chemical Equilibrium and Reactivity w/lab <i>Greco, Jane</i> This course is designed for freshmen who have received AP or other placement credit for 030.101-102. Chemical equilibrium, reactivity and bonding will be covered. These topics will be explored through the use of laboratory experiments and problem solving, and the use of these principles in current research areas will be discussed.	4.00	32	MWF 9:00-9:50AM; T 1:30-5:00PM
AS.030.103	02	N		Applied Chemical Equilibrium and Reactivity w/lab	4.00	32	MWF 9:00-9:50AM; M 1:30-5:00PM
AS.030.105	01	N		Intro Chemistry Lab I <i>Pasternack, Louise</i> Coreq: 030.101 or 510.101 - Laboratory in the fundamental methods of chemistry with related calculations. Lab lecture meets at 1:30pm on Thursday and Friday. Students may attend either lecture regardless of the section number for which they are registered.	1.00	100	F 1:30-2:20PM; M 1:30-4:20PM
AS.030.105	02	N		Intro Chemistry Lab I	1.00	100	Th 1:30-2:20PM; T 1:30-4:20PM
AS.030.105	03	N		Intro Chemistry Lab I	1.00	100	W 1:30-4:20PM; F 1:30-2:20PM
AS.030.105	04	N		Intro Chemistry Lab I	1.00	100	Th 2:30-5:20PM; Th 1:30-2:20PM
AS.030.105	05	N		Intro Chemistry Lab I	1.00	100	F 2:30-5:20PM; F 1:30-2:20PM
AS.030.205	01	N		Organic Chemistry I <i>Staff</i> Prereq: 030.101-102, 030.105-106	4.00	300	MWF 10:00-10:50AM; Th 9:00-10:20AM
AS.030.205	02	N		Organic Chemistry I	4.00	300	MWF 9:00-9:50AM; Th 9:00-10:20AM
AS.030.205	31	N		Organic Chemistry I	4.00	10	TBA; TBA
AS.030.225	01	N		Intro Organic Chem Lab <i>D'Souza, Larissa N</i> Coreq: 030.104 or 030.205 Prereq: 030.101-102, 030.105 Course lecture meets at both 9am and 10am. Students may attend either lecture regardless of the section number they are registered for. Techniques for the organic chemistry laboratory including methods of purification, isolation, synthesis, and analysis. Chemistry majors should take this course in the fall semester. *Freshmen are not eligible to register.	3.00	60	M 1:30-6:30PM; T 9:00-10:20AM
AS.030.225	02	N		Intro Organic Chem Lab	3.00	44	T 12:30-5:30PM; T 9:00-10:20AM
AS.030.225	03	N		Intro Organic Chem Lab	3.00	44	W 1:30-6:30PM; T 9:00-10:20AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.030.225	04	N		Intro Organic Chem Lab	3.00	44	Th 12:30-5:30PM; T 9:00-10:20AM
AS.030.225	05	N		Intro Organic Chem Lab	3.00	44	F 1:30-6:30PM; T 9:00-10:20AM
AS.030.301	01	N		Physical Chemistry I <i>Draper, David E</i> Prereq: General physics, general chemistry, and calculus (two semesters recommended) "Freshmen by permission only" The laws of thermodynamics, their statistical foundation, and application to chemical phenomena.	3.00	60	MWF 10:00-10:50AM
AS.030.305	01	N	W	Phys Chem Instr Lab I <i>Bragg, Arthur E</i> Pre- or corequisites: 030.301-302. Chemistry majors only This course is designed to illustrate the principles of physical chemistry and to introduce the student to techniques and instruments used in modern chemical research. Chemistry majors are expected to take this sequence of courses, rather than 030.307.	3.00	12	M 1:30-2:20PM; M 2:30-6:30PM
AS.030.305	02	N	W	Phys Chem Instr Lab I	3.00	12	M 1:30-2:20PM; W 2:30-6:30PM
AS.030.307	01	N		Phys Chem Lab III <i>Trapane, Tina Lynn</i> Prereq: 030.301-302 or equivalent. Chemical Engineering majors only This is a one-semester course which selects experiments that are most relevant to chemical engineering.	3.00	20	T 1:30-2:20PM; T 2:30-6:30PM
AS.030.307	02	N		Phys Chem Lab III	3.00	20	Th 1:30-2:20PM; Th 2:30-6:30PM
AS.030.356	01	N		Advanced Inorganic Lab <i>Roth, Justine P</i> Laboratory designed to illustrate the principles and practice of inorganic chemistry through the synthesis and characterization of transition metal and organometallic compounds. Methods used include vacuum and inert atmosphere techniques. Instrumental approaches and modern spectroscopic techniques are applied to the characterization of compounds generated.	3.00	15	T 1:30-2:20PM; W 1:30-6:30PM
AS.030.356	02	N		Advanced Inorganic Lab	3.00	15	T 1:30-2:20PM; F 1:30-6:30PM
AS.030.442	01	N		Organometallic Chemistry <i>Roth, Justine P</i> An introduction to organometallic chemistry beginning with structure, bonding and reactivity and continuing into applications to fine chemical synthesis and catalysis. Co- or Prereq: 030.449 or equivalent	3.00	25	TTh 2:30-3:45PM
AS.030.443	01			Bioinorganic Chemistry <i>Goldberg, David P</i> This course covers the chemistry of metal ions in biological systems. The structure and function of metalloproteins and metalloenzymes will be addressed. The principles of synthesis (organic and inorganic) for the design and characterization of small-molecule analogs of these systems will be discussed. Physical/spectroscopic methods (e.g. EPR, RR, Mossbauer, XAS) will be introduced as appropriate for understanding both the biological and synthetic inorganic systems.	3.00	15	TBA
AS.030.449	01	N		Chemistry of Inorganic Compounds	3.00	30	TTh 9:00-10:15AM

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				<i>Mcqueen, Tyrel</i> Physical and chemical properties of inorganic, coordination and organometallic compounds are discussed in terms of molecular orbital, ligand field and crystal field theories. Emphasis on structure and reactivity of these inorganic compounds. Other topics: magnetic properties, electronic spectra, magnetic resonance spectra, reaction kinetics.			
AS.030.452	01	N		Materials & Surface <i>Fairbrother, D Howard</i> The chemistry associated with surfaces and interfaces as well as a molecular level understanding of their essential roles in many technological fields. The first half of this course addresses various analytical techniques used to study surfaces including X-ray, photoelectron spectroscopy, and scanning tunneling microscopy. The second half of this course uses a number of case studies to illustrate the application of surface analytical techniques in contemporary research.	3.00	35	TTh 9:00-10:15AM
AS.030.453	01	N		Intermed Quantum Chem <i>Silverstone, Harris</i> Prereq: 030.301-302 The principles of quantum mechanics are developed and applied to chemical problems.	3.00	20	MWF 11:00-11:50AM

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Classics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.040.105	01			Elementary Ancient Greek <i>Staff</i> This course provides a comprehensive, intensive introduction to the study of ancient Greek. During the first semester, the focus will be on morphology and vocabulary. Credit is given only upon completion of a year's work. Cannot be taken Satisfactory/Unsatisfactory.	4.00	20	MWF 9:00-9:50AM; TTh 9:00-9:50AM
AS.040.107	01			Elementary Latin <i>Staff</i> This course provides a comprehensive, intensive introduction to the study of Latin for new students, as well as a systematic review for those students with a background in Latin. Emphasis during the first semester will be on morphology and vocabulary. Credit is given only upon completion of a year's work. Course may not be taken Satisfactory/Unsatisfactory.	3.50	15	MWF 9:00-9:50AM
AS.040.107	02			Elementary Latin	3.50	15	MWF 10:00-10:50AM
AS.040.107	03			Elementary Latin	3.50	15	MWF 11:00-11:50AM
AS.040.133	01	H		Heroes: the Ancient Greek Way <i>Montiglio, Silvia</i> The purpose of this course is to introduce students to Ancient Greek literature by reading and discussing its most important and famous texts, from the Iliad and the Odyssey to tragedy to philosophy. Knowledge of Greek is not required.	3.00	25	MW 3:00-3:50PM; F 3:00-3:50PM
AS.040.137	01	H	W	Archaeology at the Crossroads: The Ancient Eastern Mediterranean through Objects in the JHU Archaeological Museum <i>Anderson, Emily S.K.</i> Limited to Freshmen. This seminar investigates the Eastern Mediterranean as a space of intense cultural interaction in the Late Bronze Age, exploring how people, ideas, and things not only came into contact but deeply influenced one another through maritime trade, art, politics, etc. In addition to class discussion, we will work hands-on with artifacts from the JHU Archaeological Museum, focusing on material from Cyprus. Cross-list with Museums and Society and Near Eastern Studies.	3.00	10	TTh 1:30-2:45PM
AS.040.201	01	H		Digging Up the Gods: The Archaeology of Greek Sanctuaries <i>Shapiro, Alan</i> This course will explore the major sites of Ancient Greece, such as Delphi, Olympia, and the Akropolis of Athens, from temples to dedications, and their role in religion and society. Cross-listed with History of Art.	3.00	50	TTh 10:30-11:45AM
AS.040.205	01	H		Intermediate Ancient Greek <i>Staff</i> Prerequisites: AS.040.105-106 or equivalent. Reading ability in classical Greek is developed through a study of various authors.	3.00	20	TTh 10:30-11:45AM
AS.040.207	01	H		Intermediate Latin <i>Staff</i>	3.00	20	MWF 10:00-10:50AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prerequisites: AS.040.107-108 or equivalent. Although emphasis is still placed on development of rapid comprehension, readings and discussions introduce student to study of Latin literature, principally through texts of various authors.			
AS.040.229	01	H		Victory and Defeat in Ancient Rome <i>Schwinge, Elisabeth</i>	3.00	25	TTh 12:00-1:15PM
				The Romans are known for their success at war which made it possible to build an empire. This course will explore two aspects of this success story: victory and defeat. Dean's Teaching Fellowship course.			
AS.040.305	01	H		Advanced Ancient Greek <i>Yatromanolakis, Dimitrios</i>	3.00	8	TTh 3:00-4:15PM
				Prerequisites: AS.040.205-206 or equivalent. Reading of prose or verse authors, depending on the needs of students. This semester's reading will focus on Aristotle's "Politics." (Same as AS.040.705)			
AS.040.308	01	H		Advanced Latin Poetry <i>Valladares, Herica</i>	3.00	8	MW 12:00-1:15PM
				Prerequisites: AS.040.207-208 or equivalent. The aim of this course is to increase proficiency and improve comprehension of the Latin language. Intensive reading of Latin texts, with close attention to matters of grammar, idiom, and translation. This semester's reading will focus on Ovid's <i>Heroides</i> . (Same as AS.040.710)			
AS.040.367	01	H	W	Memory and Oblivion: Rewriting the Past in Ancient Rome <i>Garofalo, Laura Lynn</i>	3.00	25	MWF 1:30-2:20PM
				This course examines concepts of memory and forgetting through Roman memory sanctions, which aimed to revise or even erase the past. Textual, archaeological, and iconographical sources will be considered. Dean's Teaching Fellowship course.			
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i>	3.00	15	MW 12:00-1:15PM
				Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Shakespeare, Douglass, and Woolf.			
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	MW 12:00-1:15PM
AS.360.133	03	H	W	Great Books at Hopkins <i>Strowick, Elisabeth</i>	3.00	15	MW 12:00-1:15PM
AS.389.205	01	H		Examining Archaeological Objects <i>Balachandran, Sanchita</i>	3.00	15	M 1:30-3:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
HA.040.116	47	H		<p>This course considers the role of materials in the production, study and interpretation of objects by examining artifacts from the Johns Hopkins Archaeological Museum. Students will consider materials such as ceramics, stone, metal, glass, wood and textiles, and visit artists' studios to gain an understanding of historical manufacturing processes. M&S practicum course. Cross-listed with Archaeology, Near Eastern Studies, Classics, and History of Art. Class meets in the Archaeological Museum (Gilman 150).</p> <p>JHU/ICCS Rome: Intensive Italian Language Practicum (Abroad) <i>Roller, Matthew</i></p> <p>JHU/ICCS Classics Program in Rome, Italy. Acquisition of basic structure of Italian language, with an emphasis on conversational and comprehension skills. This course may not be used as an equivalent of Italian Elements. The course is open to students selected to participate on the JHU/ICCS Classics Program only. Requirements: quizzes, midterm, course project, final, homework and participation. *Credit evaluations submitted by the Office of Study Abroad. Major requirements confirmed by the DUS.</p>	4.00		TBA
HA.040.212	47	H		<p>JHU/ICCS Rome: Intensive Intermediate Latin (Abroad) <i>Roller, Matthew</i></p> <p>JHU/ICCS Classics Program in Rome, Italy. Students will read a Latin literary text. Offering vary year by year. Review of Latin grammar and syntax. Classes focus on prepared translation and discussion, some sight readings. The course is open to students selected to participate on the JHU/ICCS Classics Program only. Requirements: mid-term, presentation, paper, final examination, attendance and participation. *Credit evaluations submitted by the Office of Study Abroad. Major requirements confirmed by the DUS.</p>	4.00	10	TBA
HA.040.214	47	H		<p>JHU/ICCS Rome: Intensive Intermediate Greek (Abroad) <i>Roller, Matthew</i></p> <p>JHU/ICCS Classics Program in Rome, Italy. Students will read a Greek literary text. Offering vary year by year. Review of Greek grammar and syntax. Classes focus on prepared translation and discussion, some sight readings. The course is open to students selected to participate on the JHU/ICCS Classics Program only. Requirements: mid-term, presentation, paper, final examination, attendance and participation. *Credit evaluations submitted by the Office of Study Abroad. Major requirements confirmed by the DUS.</p>	4.00	10	TBA
HA.040.351	47	H		<p>JHU/ICCS Rome: Ancient City: Rome: Art and Architecture <i>Roller, Matthew</i></p>	4.00	10	TBA

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<p>JHU/ICCS Classics Program in Rome, Italy. Students will trace the development of Ancient Rome from its origins through late antiquity. Students study the physical remains of the city, along with the literary and historical evidence, to deepen their understanding of the Romans within their historical and social context. The course is open to students selected to participate on the JHU/ICCS Classics Program only.</p> <p>Requirements: quizzes, on-site oral report, final project and final examination.</p> <p>*Credit evaluations submitted by the Office of Study Abroad. Major requirements confirmed by the DUS.</p>			
HA.040.352	47	H		<p>JHU/ICCS Rome: Ancient City: Rome: Politics, Society and Culture</p> <p><i>Roller, Matthew</i></p> <p>JHU/ICCS Classics Program in Rome, Italy. Students will trace the development of Ancient Rome from its origins through late antiquity. Students study the politics, society and culture of Ancient Rome through its physical remains. Continuation of HA.040.35 1.47. The course is open to students selected to participate on the JHU/ICCS Classics Program only.</p> <p>Requirements: quizzes, on-site oral report, final project and final examination.</p> <p>Credit evaluations submitted by the Office of Study Abroad. Major requirements confirmed by the DUS.</p>	4.00	10	TBA

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Cognitive Science

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.050.101	01	NS		Cognition <i>Staff</i> Introductory course exploring the study of human mental processes within the field of cognitive science. Drawing upon cognitive psychology, cognitive neuropsychology, cognitive neuroscience, linguistics, and artificial intelligence, the course examines theory, methods, and major findings in work on vision, reasoning, and language.	3.00	150	TTh 1:30-2:45PM
AS.050.206	01	NS		Bilingualism <i>Staff</i> Do children get confused when they grow up exposed to more than one language? Is it possible to forget one's native language? Are the first and second language processed in different areas of the brain? How does brain damage impact the different languages of a polyglot? Does knowing a second language affect non-linguistic cognitive processing? This course will address questions such as these through an exploration of mental and neural processes underlying bilingual and multilingual language processing.	3.00	25	TBA
AS.050.318	01	NS		Community Based Learning - Practicum in Language Disorders <i>Rapp, Brenda C</i> This course provides the opportunity to learn about adult aphasia, language disorders which are one of the most common consequences of stroke. You will receive training in supportive communication techniques and work as a communication partner with an individual with aphasia for two hours per week. Three class meetings for orientation and reading assignments will be held on campus; training and practicum will be conducted at a local aphasia support center. Transportation required. Prerequisites: junior or senior status; earned an A- or above in 080.203, 050.203, 050.105, or 050.311; and a minimum major GPA of 3.5. Co-listed with Neuroscience (080.400). Please see additional instructions on the Neuroscience Department website at: the Neuroscience Department Website	2.00	2	None
AS.050.319	01	NS		Visual Cognition <i>Park, Soojin</i>	3.00	45	TTh 9:00-10:15AM

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Cognitive Science

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<p>Vision is central to our daily interactions with the world: we can effortlessly navigate through a city, comprehend fast movie trailers, and find a friend in a crowd. While we take the visual experience for granted, visual perception involves a series of complicated cognitive processes beyond just opening our eyes. The goal of this course is to introduce students to the field of visual cognition, including existing theoretical frameworks and recent research findings. We will explore questions such as: How do we see the visual world? Do we see and remember correctly what's in the physical world? How many items can we keep track of and remember at a time? How is the visual system structured and what are the neural mechanisms underlying visual perception?</p> <p>Prerequisites: student must have taken Cognition (200.101), Introduction to Psychology (050.101), or Cognitive Neuroscience (080.203/050.203). Meets with 050.619.</p>			
AS.050.321	01	NS		<p>Syntax II <i>Legendre, Geraldine</i></p> <p>Building on 050.320, this course addresses and compares conceptions of syntactic theory that have emerged in the 1980s and 1990s. Discussion focuses on both the substantive and formal properties of the fundamental principles of syntactic theory, as well as the cross-linguistic evidence that has motivated them. When possible, connections will be made to other areas of linguistic inquiry such as processing, acquisition, and computation. The particular choice of topics and conceptions will vary from year to year but may include (1) the contrast between the Principles and Parameters view where syntactic theory is composed of a set of inviolable principles whose form admits a certain amount of cross-linguistic variation, and the Optimality Theory view where the principles are invariant though violable, and cross-linguistic variation is determined by the relative importance of satisfying the various principles; (2) the role of structure building operations in grammar, and the differences between characterizations of well-formedness in terms of sequences of derivational steps and representational well-formedness requirements. Prerequisite: 050.320 or permission of instructor. Meets with AS.050.621</p>	3.00	10	TTh 12:00-1:15PM
AS.050.322	01	NS		<p>Semantics 2 <i>Rawlins, Kyle</i></p>	3.00	20	MW 12:00-1:15PM

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Cognitive Science

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<p>This course extends the material in 050.317 to cover advanced but central topics in semantic and pragmatic theory, focusing on intensional semantics (especially possible world semantics and situation semantics). Empirical domains of interest in this class include modality, tense, grammatical aspect, conditionals, attitude and speech reports, questions, and free choice phenomena. Three core theoretical issues addressed in this class are the nature of a compositional account of the above intensional phenomena, the representations of possibilities involved, and the role of the syntax/ semantics/pragmatics interface in such an account.</p> <p>Meets with 050.622</p>			
AS.050.333	01	NS	W	<p>Psycholinguistics <i>Omaki, Akira</i></p> <p>This course provides a broad survey of current research on language processing in adult native speakers and language learners. Topics include speech perception, word recognition, and sentence production and comprehension. We will discuss the nature of representations that are being constructed in real-time language use, as well as how the mental procedures for constructing linguistic representations could be studied by various behavioral and physiological measures. Prerequisite (one of the followings): 050.102, or 050.240, or permission. Meets with AS.050.633</p>	3.00	20	TTh 10:30-11:45AM
AS.376.371	01	NS		<p>Topics in Music Cognition I <i>Lopez-Gonzalez, Monica</i></p> <p>What underlies our aesthetic response to music? How and why are we able to identify certain sounds as music? To what extent are music and natural language similar? What is it about music that evokes such powerful emotions such as happiness and sadness? What is unique to musical creativity? Examining such questions from cognitive science, neuroscience, psychology, and philosophical perspectives, this course explores relevant research and theory in the emerging domain of music perception and cognition. Students will complete a final research paper on the topic of their choice that integrates the course material.</p>	3.00	15	Th 4:30-6:50PM

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Dean's Teaching Fellowship Courses

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.010.151	01	H		Art and Architecture of Early Christian and Medieval North Africa <i>Dennis, Nathan Stuart</i> Survey of Early Christian and medieval art and architecture in North Africa, with an emphasis on indigenous developments and cultural exchange in the Mediterranean world, 4th to 13th century.	3.00	25	TTh 4:30-5:45PM
AS.010.162	01	H		Junk! New (Old) Materials in Modern Art <i>Watson, Jennifer Lynn</i> This course explores the recurring strategy of using junk materials for artistic creation in the twentieth century, in both Europe and the United States, and considers the different ways this strategy has been employed by artists and experienced by viewers at different historical moments.	3.00	15	TTh 3:00-4:15PM
AS.040.229	01	H		Victory and Defeat in Ancient Rome <i>Schwinge, Elisabeth</i> The Romans are known for their success at war which made it possible to build an empire. This course will explore two aspects of this success story: victory and defeat. Dean's Teaching Fellowship course.	3.00	25	TTh 12:00-1:15PM
AS.040.367	01	H	W	Memory and Oblivion: Rewriting the Past in Ancient Rome <i>Garofalo, Laura Lynn</i> This course examines concepts of memory and forgetting through Roman memory sanctions, which aimed to revise or even erase the past. Textual, archaeological, and iconographical sources will be considered. Dean's Teaching Fellowship course.	3.00	25	MWF 1:30-2:20PM
AS.060.309	01	H	W	Home and Wanderlust in Modernist Literature <i>Zhang, Nan</i> This course will examine forms of wanderlust and tensions between rootedness in one's own culture and a cosmopolitan orientation in Henry James, Joyce, Tagore, Hemingway, Isak Dinesen, and Hualing Nieh. Dean's Teaching Fellowship course.	3.00	18	TTh 9:00-10:15AM
AS.060.310	01	H	W	Work and Worth in American Literature <i>Tempesta, Erica N</i> This course will engage contemporary discussions of economics, labor, and vocation with representations of people at work in the writings of Douglass, Melville, Hurston, Steinbeck, Frost, Yates, Springsteen, and others. Dean's Teaching Fellowship Course	3.00	18	TTh 9:00-10:15AM
AS.060.317	01	H	W	Time Well Wasted: Reading Fiction in the 18th Century <i>Maioli dos Santos, Roger</i> Is reading fiction just escapism? Or can novels speak to us about real life? We will discuss this question by reading classic works by Defoe, Swift, Fielding, and Sterne. Dean's Teaching Fellowship Course. Pre 1800 course	3.00	18	MW 3:00-4:15PM
AS.060.327	01	H	W	Best Sellers in the Early Nineteenth Century: Sir Walter Scott, Lord Byron, and Jane Austen <i>Bujak, Nicholas</i>	3.00	18	MW 3:00-4:15PM

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AS.060.328	01	H	W	<p>Sir Walter Scott and Lord Byron were the best-selling authors of their day by a significant margin. In this course, we'll attempt to come to terms with their unprecedented success, which was felt within the business of the publishing industry as much as it was in the minds of their fellow writers. Readings include Scott's poems set in Scotland's legendary past, Byron's scandalous and heroic poems (including his masterpiece, "Don Juan"), as well as a novel by their less-popular contemporary, Jane Austen, whose formally elegant novels must be understood as drawing on and competing with the works of her age's most dominant literary figures. Additionally, we'll place a strong emphasis on understanding how the workings of the publishing industry affected not only the habits of reading, but also of writing, during this crucial period in literary history. Secondary readings will help to situate the authors and primary texts in their historical and literary context, and provide practical tools for literary analysis. Assignments will include reading quizzes, response papers, and three longer papers. Dean's Teaching Fellowship Course</p> <p>Restoration and 18th Century Literature <i>Kramnick, Jonathan B</i> Pre-requisite: 060.107 This course is a survey of the major authors and genres in English from 1660-1800. Topics include the rise of the novel, politics and satire, gender and women writers, landscape and ecological consciousness, philosophy, science and literature.</p>	3.00	18	T 1:30-3:50PM
AS.100.322	01	HS		<p>Cross-cultural encounters in Spanish America 15th - 18th Centuries <i>Garcia Montufar, Guillermo</i> This course is designed to introduce students to the complex relationships that were established between the different cultures that inhabited colonial Latin America, from 1492 to the 18th century.</p>	3.00	20	TTh 3:00-4:15PM
AS.100.331	01	HS	W	<p>Buying Power: American Consumer Society 1750-1960 <i>Gamble, Robert John</i> This course examines the causes and consequences of America's transformation into a mass consumer society, including the growth of advertising, the gendering of shopping, and the globalization of American products and tastes.</p>	3.00	15	TTh 3:00-4:15PM
AS.100.409	01	HS	W	<p>Facism: History and Interpretation <i>Bisno, Adam Samuel</i> This course investigates the history and historiography of fascism, with emphases on definitions of fascism and on fascist political culture in a comparative framework. AS.100.104 recommended but not required.</p>	3.00	15	TTh 9:00-10:15AM
AS.140.365	01	HS		<p>From Colonial to Global Health: Health, Healing and European Expansion, 1500-1950 <i>Arner, Katherine Elizabeth</i></p>	3.00	20	TTh 10:30-11:45AM

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				This course traces the impact of European expansion on health, medicine and disease control from the Age of Exploration to the emergence of international and global health in the early twentieth century.			
AS.191.352	01	S	W	American Constitutionalism and War Making <i>Fried, Ryan Philip</i>	3.00	20	W 1:30-3:50PM
				Interstate anarchy is hostile to limited government constitutions given various power concentrations necessary for state survival. While the American Union created in 1787 accounted for this in various ways by effectively ending the balance of power on the continent, a second important feature of the founding period, effective distance from Europe ended with the industrial revolution and the advent of nuclear era technology. We explore how the United States adapted its security structures to these geopolitical changes.			
AS.191.363	01	S	W	Impasse Matters: The Politics of Unmaking Laws <i>Shomura, Chad</i>	3.00	15	T 4:30-6:50PM
				What happens when our images of the good life seem to be harming us? When letting go of hopes, relationships, and attachments is so hard or painful that we cling to them and risk being destroyed? What might we do so that unmaking our lives becomes preferable to keeping a damaging one? This course explores such impasse matters, where political and personal life meet in struggles to endure, change, and thrive. Specific impasses that might arise in our discussions include the American Dream, intimacy, and climate change. We will engage readings and films of diverse genres to grapple with the threat and promise of the unmaking of our lives.			
AS.191.364	01	S		Free Expression in the 21st Century <i>Jones, Gary William</i>	3.00	20	TTh 3:00-4:15PM
				This course will explore the theoretical underpinnings of free expression protection and some of the key contemporary debates that surround free expression in an age of mobilization, globalization, and digitization.			
AS.191.398	01	S	W	The International Politics of Genocide <i>Meiches, Benjamin Aaron</i>	3.00	25	TTh 1:30-2:45PM
AS.212.327	01	H	W	Mise et remise en scene: Performing in the 18th Century <i>Sabee, Olivia Maj</i>	3.00	20	TTh 12:00-1:15PM
				An introduction to texts and performance practices of the eighteenth century French theater, and an exploration of challenges and creative approaches to its restaging today. Course has a performance requirement.			
AS.214.361	01	H		Rome as Told by its Narrators: A Journey through History, Literature, Arts and Film <i>Katinis, Teodoro</i>	3.00	10	TTh 12:00-1:15PM
				This course offers an intellectual and aesthetic experience of Rome through time. We will delve into its complex history as well as its tormented and vivacious present. Dean's Teaching Fellowship			

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.214.361	02	H		Rome as Told by its Narrators: A Journey through History, Literature, Arts and Film	4.00	5	TTh 12:00-1:15PM

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Earth & Planetary Sciences

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.171.321	01	EN		Introduction to Space Science and Technology <i>Moos, Henry Warren</i> Topics include space astronomy, remote observing of the earth, space physics, planetary exploration, human space flight, space environment, orbits, propulsion, spacecraft design, attitude control and communication. Crosslisted by Departments of Earth and Planetary Sciences, Materials Science and Engineering and Mechanical Engineering. Prerequisites: Physics 171.101-102 or similar; Calculus 110.108-109. 3 credits.	3.00	32	TTh 12:00-1:15PM
AS.270.102	01	N		Conversations with the Earth <i>Marsh, Bruce D</i> Freshmen only. Sec. 01: 2 credits (normal participation) Sec. 02: 3 credits (requires term paper) A discussion of current topics on Earth's origin, evolution, and habitability. Topics will include extinction of life from meteorite impact, global warming, ozone depletion, volcanism, ice ages, and catastrophic floods, among others.	2.00	50	TTh 10:30-11:45AM
AS.270.102	02	N		Conversations with the Earth	3.00	50	TTh 10:30-11:45AM
AS.270.103	01	N		Introduction to Global Environmental Change <i>Passey, Benjamin H</i> A broad survey of the Earth as a planet, with emphasis on the processes that control global changes. Topics include: the structure, formation, and evolution of the Earth, the atmosphere, oceans, continents, and biosphere. Special attention is given to present-day issues, such as global climate change, natural hazards, air pollution, resource depletion, human population growth, habitat destruction, and loss of biodiversity. Open to all undergraduates; no pre-requisites.	3.00	110	MWF 11:00-11:50AM
AS.270.205	01	EN		Intro to Geographic Information Systems and Geospatial Analysis <i>Chen, Xin</i> The course provides a broad introduction to the principles and practice of Geographic Information Systems (GIS) and related tools of Geospatial Analysis. Topics will include history of GIS, GIS data structures, data acquisition and merging, database management, spatial analysis, and GIS applications. In addition, students will get hands-on experience working with GIS software. Cross-listed with DOGEE	3.00	25	MW 3:00-4:15PM

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AS.270.220	01	N		The Dynamic Earth: An Introduction to Geology <i>Ferry, John</i> Prereqs: 030.101 or 171.101-102 or equivalent Coreq (for EPS Majors): 270.221; optional for others. Basic concepts in geology, including plate tectonics; Earth's internal structure; geologic time; minerals; formation of igneous, sedimentary, and metamorphic rocks; development of faults, folds and earthquakes; geomagnetism.	3.00	30	MWF 11:00-11:50AM
AS.270.221	01	N		Lab Dynamic Earth <i>Olsen, Sakiko</i> Coreq: 270.220 This course is a hands-on learning experience for introductory geological concepts and techniques using geological tools, such as mineral/rock samples, microscopes, and maps. Field trips are its essential part.	2.00	12	W 2:00-4:30PM
AS.270.305	01	N		Energy Resources in the Modern World <i>Hinnov, Linda</i> Prerequisite: 270.103, 270.107 or 270.220 This in-depth survey will inform students on the non-renewable and renewable energy resources of the world and the future prospects. Topics include petroleum, natural gas, coal, nuclear, hydroelectric, geothermal, solar, wind, biomass and ocean energy. Global production, distribution, usage and impacts of these resources will be discussed.	3.00	50	MWF 3:00-3:50PM
AS.270.308	01	N		Population/Comm Ecology <i>Szlavec, Katalin</i> Prereq: 270.103 or permission of instructor. This course explores the distribution and abundance of organisms and their interactions. Topics include dynamics and regulation of populations, population interactions (competition, predation, mutualism, parasitism, herbivory), biodiversity, organization of equilibrium and non-equilibrium communities, energy flow and nutrient cycles in ecosystems. Field trip included. Cross-listed with Public Health Studies	3.00	30	MW 1:30-2:45PM
AS.270.335	01	N		Planets, Life and the Universe <i>Levin, Naomi E</i> This multidisciplinary course explores the origins of life, planets' formation, Earth's evolution, extrasolar planets, habitable zones, life in extreme environments, the search for life in the Universe, space missions and planetary protection.	3.00	15	MWF 11:00-11:50AM
AS.270.350	01	N		Sedimentary Geology <i>Levin, Naomi E</i>	4.00	15	MW 3:00-5:00PM

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				Prereqs: 270.220 or consent of instructor Introduction to sedimentary processes and sedimentary rocks. Focus is placed on linking physical observations to earth surface processes. Fundamental tools for interpreting the sedimentary rock record, such as depositional models, geochronology, and chemostratigraphy are reviewed. Weekend field trips. Graduate and advanced undergraduate level. Prerequisites: Dynamic Earth or consent of instructor.			
AS.270.378	01	N		Present & Future Climate <i>Zaitchik, Benjamin</i>	3.00	20	TTh 1:30-2:45PM
				Prereq: Calculus I & II (110.108-109 and General Physics (171.101-102) Intended for majors who are interested in the science that underlies the current debate on global warming, the focus is on recent observations, and one can glean from model simulations. Meets with 270.641			
AS.270.425	01	N		Earth & Planetary Fluids <i>Olson, Peter Lee</i>	3.00	20	TTh 4:00-5:15PM
				Prereq: Basic Physics, Calculus, and familiarity with ordinary differential equations An introductory course on the properties, flow, and transport characteristics of fluids throughout the Earth and planets. Topics covered include: constitutive relationships, fluid rheology, hydrostatics, dimensional analysis, low Reynolds number flow, porous media, waves, stratified and rotating fluids, plus heat, mass, and tracer transport. Illustrative examples and problems are drawn from the atmosphere, ocean, crust, mantle, and core of the Earth and other Planets. Open to graduate and advanced undergraduate students.			
AS.270.495	01	N	W	Senior Thesis <i>Waugh, Darryn</i>	3.00		TBA
				Preparation of a substantial thesis based upon independent student research, supervised by at least one faculty member in Earth and Planetary Sciences. Open to Sr. departmental majors only. Required for department honors.			
AS.270.495	02	N	W	Senior Thesis <i>Passey, Benjamin H</i>	4.00		TBA
AS.280.335	01	N		The Environment and Your Health <i>Trush, Michael A</i>	3.00	250	TTh 4:30-5:45PM
				This course surveys the basic concepts underlying environmental health sciences (toxicology, exposure assessment, risk assessment), current public health issues (hazardous waste, water- and food - borne diseases) and emerging global health threats (global warming, built environment, ozone depletion, sustainability). Cross-listed with Earth and Planetary Sciences and Geography and Environmental Engineering – PHS, GECS, and EPS majors have 1st priority for enrollment. Your enrollment may be withdrawn at the discretion of the instructor if you are not a GECS, PHS, or EPS major.			

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East Asian Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.100.479	01	HS		Problems in Chinese Urban History <i>Rowe, William T</i> Reading and discussion of works in Western languages on the role of cities in Chinese society, from the Tang dynasty (628-906 A.D.) to the present.	3.00	20	Th 1:30-3:50PM
AS.140.305	01	HS	W	Science and Technology in East Asia <i>Frumer, Yulia</i> The course explores the historical and cultural context of scientific and technological developments in China, Japan and Korea, focusing especially on the rise of modern science in the 19th and the 20th century.	3.00	25	MWF 3:00-3:50PM
AS.230.175	01	S	W	Chinese Revolutions <i>Kuo, Huei-Ying</i> This course introduces the origins, operation and impacts of five major revolutions in modern China between 1850 and 1950. These include the Taiping Rebellion, the republican revolutions, federalist and southern automatic movements, labor strikes as well as peasant rebellions. It draws on the existing historiography that examines China's transition from an empire to a republic, impacts of western and Japanese influences to China, as well as the continuity and change of Chinese social organizations. Cross list with International Studies and East Asian Studies. Fulfills IS History requirement.	3.00	20	TTh 12:00-1:15PM
AS.230.321	01	S	W	Revolution, Reform and the Social Inequality of China <i>Andreas, Joel</i> This course explores various aspects of social inequality in China during the Mao Zedong and the post-Mao reform eras. We will examine inequality within villages, the rural/urban divide, urban inequality, education and health policies, and gender and ethnic relations. Each of these issue areas will be tackled analytically, but the aim is also to understand what it was/is like to live in China during and after the Mao era. The course is designed for both undergraduate and graduate students. Cross-listed with East Asian Studies and International Studies (CP)	3.00	15	TTh 10:30-11:45AM
AS.310.104	01	HS	W	Pacific Crossings: East Asia and the US from the 19th Century to the Present <i>Bronson, Adam</i> This course examines the connections between US and East Asian history from the 19th century to the present day. We will explore how cultural exchange and confrontation shaped humanitarian, nationalist, and socialist projects in the US, China, Korea, and Japan. Readings include memoirs, travelogues, essays, and novels that provide a window into transpacific history.	3.00	25	MW 1:30-2:45PM
AS.310.115	01	H		Ghost Tales from China and Japan, 14th-19th Centuries <i>Joo, Fumiko</i>	3.00	25	MW 12:00-1:15PM

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East Asian Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<p>We cannot express our own experience of death – only imagine life after death. How did people in the past conceptualize the world of the dead? Ghost tales will teach us what we imagine as the experience of dead and life after death. This course aims to introduce students to a variety of ghost stories in Late Imperial China and Tokugawa Japan and connect their literary imagination of the dead to the cultural, socio-historical, and religious context of each society as well as to the broad East Asian tradition of supernatural narratives. While we also touch upon earlier traditions on narrating the dead, most of the stories in class readings are from the Ming (1368-1644) and Qing (1644-1911) dynasties of China, and the Tokugawa period (1600-1868) of Japan. Key issues include family, gender, sexuality, body, medicine and many more. Although we will also take a look at visual and theatrical representations of the dead, we will primarily focus on literary texts about ghostly phenomena. Required film screenings are scheduled outside of regular class hours. All readings are in English.</p>			
AS.310.204	01	HS	W	<p>RURAL DEVELOPMENT IN ASIA <i>Gurel, Burak</i></p> <p>We will examine the transformation of the Asian countryside from the beginning of the twentieth century up until the present by looking at agrarian structure, economic and social development, collectivization and decollectivization, rural industrialization, agribusiness, sustainable agriculture, and rural unrest. Course materials combine theoretical readings with empirical case studies. While theoretical readings examine global processes involving Asia and elsewhere, case studies cover several Asian countries, with an emphasis on China and India.</p>	3.00	25	MW 10:30-11:45AM
AS.310.221	01	HS		<p>Introduction to Eastern Religious Traditions <i>Valentine, Jay Holt</i></p> <p>This course serves as an introduction to Hinduism, Jainism, Buddhism, Sikhism, Confucianism, and Daoism. Successful completion of this course will provide students with a critical understanding of these six traditions.</p>	3.00	30	TTh 4:30-5:45PM
AS.310.305	01	S		<p>Southeast Asia and US Security <i>Ott, Marvin C</i></p>	3.00	25	T 1:30-4:00PM

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				<p>This survey course is designed to introduce students to Southeast Asia -- the ten member countries of the Association of Southeast Asian Nations (ASEAN) plus Australia and New Zealand. Southeast Asia is an integral part of the broader region of East Asia and a geographic bridge to the Indian subcontinent (South Asia). Southeast Asia has been one of the great success stories in the saga of modernization and development of post-colonial Afro-Asia over the last six decades. Its resulting economic importance is matched by its strategic significance given the presence of imbedded jihadist networks and the emergence of China as a regional great power and aspirant superpower. Nevertheless, the region has been largely overlooked by senior foreign policy and defense officials in Washington. This course will equip students to fill that void by examining the region from the perspective of national security strategy -- broadly understood in its multiple dimensions. Students will be challenged to formulate some element of a viable U.S. national security strategy for the region.</p>			
AS.310.314	01	H		<p>China's Golden Age: Diversity of Language, Literature and Culture <i>Chao, Fang-Yi</i></p> <p>This is a basic introduction to the language and culture of the Golden Age of China (7th century to 13 century). The course aims at developing student's awareness of linguistic, literary and cultural diversity during China's Golden Age. It introduces not only the basic grammar of literary Chinese but also the linguistic features of early Modern Chinese. Through the reading and discussion of the original texts, students will learn to analyze, to comprehend and to appreciate the historical texts in different genres. Students will also become aware of the difference between literary Chinese and modern Chinese. In addition to language skills, students will learn to study the cultural background of the texts and to gain a good knowledge of the achievements of China's Golden Age. Prerequisites: AS.373.111-2 and AS.373.115-6 and AS.373.211-2 and AS.373.215-6.</p>	3.00	20	TTh 12:00-1:15PM
AS.310.431	01	HS	W	<p>Senior Thesis Seminar: East Asian Studies <i>Staff</i></p> <p>Students may earn honors in the East Asian Studies major by maintaining a 3.7 average in the major and completing a senior thesis by taking the year-long 310.431 & 310.432 Senior Thesis Seminar: East Asian Studies. Students are required to secure the mentorship of an adviser among the EAS faculty before asking for permission to enroll in the course.</p>	3.00	10	TBA

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.373.111	01			First Year Heritage Chinese <i>Lievens, Liman</i> This course is designed for students who were raised in an environment in which Chinese is spoken by parents or guardians at home and for those who are familiar with the language and possess native-like abilities in comprehension and speaking. The course therefore focuses on reading and writing (including the correct use of grammar). Cross-listed with East Asian Studies	3.00	16	MWF 11:00-11:50AM
AS.373.111	02			First Year Heritage Chinese	3.00	16	MWF 12:00-12:50PM
AS.373.115	01			First Year Chinese <i>Li, Lu</i> This course is designed primarily for students who have no prior exposure to Chinese. The objective of the course is to help students build a solid foundation of the four basic skills--listening, speaking, reading, and writing in an interactive and communicative learning environment. The emphasis is on correct pronunciation, accurate tones and mastery of basic grammatical structures. Note: Students with existing demonstrable skills in spoken Chinese should take 373.111-112. No Satisfactory/ Unsatisfactory. Students may choose to attend either lecture at 9am or 3pm on TTh. Cross-listed with East Asian Studies	4.50	16	MWF 9:00-9:50AM; TTh 9:00-9:50AM
AS.373.115	02			First Year Chinese	4.50	16	MWF 11:00-11:50AM; TTh 9:00-9:50AM
AS.373.115	03			First Year Chinese	4.50	16	TTh 3:00-3:50PM; MWF 12:00-12:50PM
AS.373.115	04			First Year Chinese	4.50	16	MWF 3:00-3:50PM; TTh 3:00-3:50PM
AS.373.211	01	H		Second Year Heritage Chinese <i>Chen, Aiguo</i> This course is designed for students who finished 373.111 with C+ and above (or equivalent). Students in this course possess native-like abilities in comprehension and speaking. The course focuses on reading and writing. Cross-listed with East Asian Studies	3.00	16	MWF 11:00-11:50AM
AS.373.211	02	H		Second Year Heritage Chinese	3.00	16	MWF 12:00-12:50PM
AS.373.215	01	H		Second Year Chinese <i>Chen, Aiguo</i> Consolidation of the foundation that students have laid in their first year of study and continued drill and practice in the spoken language, with continued expansion of reading and writing vocabulary and sentence patterns. Students will work with both simplified and traditional characters. Note: Students who have native-like abilities in comprehension and speaking should take 373.115 or equivalent. Cross-listed with East Asian Studies	4.50	16	MWF 9:00-9:50AM; TTh 12:00-12:50PM
AS.373.215	02	H		Second Year Chinese	4.50	16	MWF 11:00-11:50AM; TTh 3:00-3:50PM
AS.373.215	03	H		Second Year Chinese	4.50	16	MWF 12:00-12:50PM; TTh 3:00-3:50PM
AS.373.313	01	H		Third Year Heritage Chinese <i>Chen, Aiguo</i>	3.00	16	MWF 10:00-10:50AM

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East Asian Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course is designed for those who have already taken 373.212 or equivalent. Students need to have native-level fluency in speaking and understanding Chinese. The course focuses on reading and writing. In addition to the textbooks, downloaded articles on current affairs may also be introduced on a regular basis. Cross-listed with East Asian Studies			
AS.373.315	01	H		Third Year Chinese <i>Lievens, Liman</i> Prereq: 373.216 or equivalent This two-semester course consolidates and further expands students' knowledge of grammar and vocabulary and further develops reading ability through work with textbook material and selected modern essays and short stories. Class discussions will be in Chinese insofar as feasible and written assignments will be given. Cross-listed with East Asian Studies	3.00	16	MWF 10:00-10:50AM
AS.373.415	01	H		Fourth Year Chinese <i>Lievens, Liman</i> Prereq: 373.315 This course is designed for students who finished 373.316 with a C+ or above (or equivalent). Readings in modern Chinese prose, including outstanding examples of literature, newspaper articles, etc. Students are supposed to be able to understand most of the readings with the aid of a dictionary, so that class discussion is not focused primarily on detailed explanation of grammar. Discussion, to be conducted in Chinese, will concentrate on the cultural significance of the readings' content. Cross-listed with East Asian Studies	3.00	16	MWF 3:00-3:50PM
AS.378.115	01			First Year Japanese <i>Katagiri, Satoko</i> This course is designed for students who have no background or previous knowledge in Japanese. The course consists of lectures on Tuesday/Thursday and conversation classes on Monday/Wednesdays/Fridays. The goal of the course is the simultaneous progression of four skills (speaking, listening, writing, and reading) as well as familiarity with aspects of Japanese culture. By the end of the year, students will have basic speaking and listening comprehension skills, a solid grasp of basic grammar items, reading and writing skills, and a recognition and production of approximately 150 kanji in context. Knowledge of grammar will be expanded significantly in 373.215. No Satisfactory/ Unsatisfactory. Student may choose to attend either lecture at 10:30 am or 12 pm on TTH. Cross-listed with East Asian Studies	4.50	16	MWF 10:00-10:50AM; TTh 10:30-11:30AM
AS.378.115	02			First Year Japanese <i>Nakao, Makiko Pennington</i>	4.50	16	TTh 12:00-12:50PM; MWF 11:00-11:50AM
AS.378.115	03			First Year Japanese <i>Katagiri, Satoko</i>	4.50	16	MWF 12:00-12:50PM; TTh 12:00-12:50PM

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East Asian Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.378.215	01	H		Second Year Japanese <i>Nakao, Makiko Pennington</i> Prereq: 378.115 & .116 or equivalent Training in spoken and written language, increasing their knowledge of more complex patterns. At completion, students will have a working knowledge of about 250 Kanji. Cross-listed with East Asian Studies	4.50	16	MWF 11:00-11:50AM; TTh 10:30-11:20AM
AS.378.215	02	H		Second Year Japanese <i>Katagiri, Satoko</i>	4.50	16	MTWThF 12:00-12:50PM
AS.378.315	01	H		Third Year Japanese <i>Katagiri, Satoko</i> Prereq: 378.215-216 Emphasis shifts toward reading, while development of oral-aural skills also continues apace. The course presents graded readings in expository prose and requires students to expand their knowledge of Kanji, grammar, and both spoken and written vocabulary. Cross-listed with East Asian Studies	3.00	16	MWF 1:30-2:20PM
AS.378.396	01	H		Fundamentals of Japanese Grammar <i>Johnson, Mayumi Yuki</i> Prerequisite: 378.115-116 or equiv. This course is designed for students who have already studied 1st-year Japanese grammar and wish to develop a thorough knowledge of Japanese grammar in order to advance all aspects of language skills to a higher level. It is also appropriate for graduate students who need to be able to read materials written in Japanese.	2.00	16	Th 3:00-5:00PM
AS.378.415	01	H		Fourth Year Japanese <i>Nakao, Makiko Pennington</i> Prereq: 378.315 and .316 or equivalent By using four skills in participatory activities (reading, presentation, and discussion), students will develop reading skills in modern Japanese and deepen and enhance their knowledge on Kanji and Japanese culture. Cross-listed with East Asian Studies	3.00	16	TTh 9:00-10:15AM
AS.380.101	01			First Year Korean <i>Kang, Choonwon</i> Introduces the Korean alphabet, hangeul. Covers basic elements of the Korean language, high-frequency words and phrases, including cultural aspects. Focuses on oral fluency reaching Limited Proficiency where one can handle simple daily conversations. No Satisfactory/ Unsatisfactory. Cross-listed with East Asian Studies	3.00	16	MWF 9:00-9:50AM

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East Asian Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.380.201	01	H		Second Year Korean <i>Kang, Choonwon</i> Prereq: Existing demonstrable skills in spoken Korean Aims for improving oral proficiency and confident control of grammar with vocabulary building and correct spelling intended. Reading materials of Korean people, places, and societies will enhance cultural understanding and awareness. Project due on Korean cities. Cross-listed with East Asian Studies	3.00	16	MWF 10:00-10:50AM
AS.380.301	01	H		Third Year Korean <i>Kang, Choonwon</i> Emphasizes reading literacy in classic and modern Korean prose, from easy essays to difficult short stories. Vocabulary refinement and native-like grasp of grammar explored. Project due on Korean culture. Cross-listed with East Asian Studies	3.00	16	MWF 8:00-8:50AM

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Economics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.180.101	01	S		Elem of Macroeconomics <i>Barbera, Robert</i> Prereq: Basic facility with graphs and algebra - An introduction to the economic system and economic analysis, with emphasis on total national income and output, employment, the price level and inflation, money, the government budget, the national debt, and interest rates. The role of public policy. Applications of economic analysis to government and personal decisions.	3.00	18	M 9:00-9:50AM; WF 9:00-9:50AM
AS.180.101	02	S		Elem of Macroeconomics	3.00	18	M 9:00-9:50AM; WF 9:00-9:50AM
AS.180.101	03	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 9:00-9:50AM
AS.180.101	04	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 12:00-12:50PM
AS.180.101	05	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 10:00-10:50AM
AS.180.101	06	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 10:00-10:50AM
AS.180.101	07	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 10:00-10:50AM
AS.180.101	08	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; T 10:30-11:20AM
AS.180.101	09	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; T 10:30-11:20AM
AS.180.101	10	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; T 10:30-11:20AM
AS.180.101	11	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; T 10:30-11:20AM
AS.180.101	12	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; T 10:30-11:20AM
AS.180.101	13	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; T 10:30-11:20AM
AS.180.101	14	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 12:00-12:50PM
AS.180.101	15	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 12:00-12:50PM
AS.180.101	16	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 12:00-12:50PM
AS.180.101	17	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 12:00-12:50PM
AS.180.101	18	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 12:00-12:50PM
AS.180.101	19	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 12:00-12:50PM
AS.180.101	20	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 12:00-12:50PM
AS.180.101	21	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; T 1:30-2:20PM
AS.180.101	22	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; T 1:30-2:20PM
AS.180.101	23	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 9:00-9:50AM
AS.180.101	24	S		Elem of Macroeconomics	3.00	18	WF 9:00-9:50AM; M 9:00-9:50AM
AS.180.201	01			Behavioral Finance <i>Staff</i> Prereq: 180.102 In recent years, the assumptions of traditional finance models that market participants are generally rational and prices of securities accurately reflect all available information came under challenge. The field of behavioral finance argues that financial markets are best understood with models in which at least some agents are not fully rational. In this course, we will examine behavioral finance models and their practical applications. This course is based on Harvard Business School cases.	3.00	25	WF 3:00-4:15PM
AS.180.228	01	S		Economic Development <i>Gersovitz, Mark</i> Prereq: 180.101-102 Diagnostic test on Elements of Economics is required to be taken in the second week.	3.00	33	MW 1:30-2:45PM; W 3:00-3:50PM
AS.180.228	02	S		Economic Development	3.00	33	MW 1:30-2:45PM; W 4:00-4:50PM

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Economics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.180.241	01	S		International Trade <i>Bertrand, Trent</i> Prereq: 180.101-102	3.00	150	T 1:30-3:50PM
AS.180.261	01	S		Monetary Analysis <i>Ball, Laurence M</i> Prereq: AS.180.101-102 - This course analyzes the financial and monetary system of the U.S. economy and the design and implementation of U.S. monetary policy. Among other topics, we will examine the role of banks in the economy, the term structure of interest rates, the stock market, the supply of money, the role of the Federal Reserve in the economy, the objectives of monetary policy in the United States and current monetary policy practice.	3.00	125	TTh 9:00-10:15AM
AS.180.263	01	S		Corporate Finance <i>Moffitt, Robert A</i> Prereq: 180.101 and 180.102 This course is an introduction to the financial management of a corporation. Students study the following broad questions. How should a firm decide whether to invest in a new project? How much debt and equity should a firm use to finance its activities? How should a firm pay its investors? How do taxes affect a firm's investment and financing decisions? What determines the value of a firm? The emphasis throughout the course is on the economic principles that underlie answers to these questions.	3.00	100	WF 12:00-1:15PM
AS.180.289	01	S		Economics of Health <i>Bishai, David M</i> Prereq: 180.102 Application of economic concepts and analysis to the health services system. Review of empirical studies of demand for health services, behavior of providers, and relationship of health services to population health levels. Discussion of current policy issues relating to financing and and resource allocation. Cross-listed with Public Health Studies	3.00	100	M 3:30-5:50PM
AS.180.301	01	S		Microeconomic Theory <i>Staff</i> Recommended Prereq: 180.101-102, and (110.106 or equivalent) or Perm. Req'd	4.50	45	MW 12:00-1:15PM; F 9:00-9:50AM
AS.180.301	02	S		Microeconomic Theory	4.50	45	MW 12:00-1:15PM; F 10:00-10:50AM
AS.180.301	03	S		Microeconomic Theory	4.50	45	MW 12:00-1:15PM; F 11:00-11:50AM
AS.180.301	04	S		Microeconomic Theory	4.50	45	MW 12:00-1:15PM; F 1:30-2:20PM

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Economics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.180.303	01	S		The Global Finance Crisis <i>Jeanne, Olivier</i> Prereqs: 180.301 and 302. The course will first review the main causes of the crisis in financial regulation, monetary policy, as well as global financial imbalances. The prospects for economic recovery and the current challenges to fiscal and monetary policies will then be discussed. The third part of the course will focus on the long-run implications of the crisis for economic policy. The course will rely on mathematical modeling of key microeconomic and macroeconomic aspects of the crisis, in particular in the areas of banking and monetary policy.	3.00	29	TTh 12:00-1:15PM
AS.180.308	01	S		Financial Regulations in the US <i>Nguyen, Hai Xuan</i> Prereqs: 180.101 and 180.102; Recommended courses: 180.261, 180.266, 180.302 This course begins with the time of the great Framers and adopts a historical approach to U.S. financial regulations. By examining all major crises and the respective policy responses, the course will provide a narrative on the evolution of the regulatory landscape in America. Students will also be exposed to influential academic papers that address the essentiality (and even the redundancies and failures) of key aspects of financial regulations, including deposit insurance, bank capital and liquidity requirements, and supervisory rules.	3.00	30	MW 1:30-2:45PM
AS.180.310	01	S	W	Economics of Antitrust <i>Hamilton, Bruce W</i> Prereq: 180.301-Microeconomic Theory This course explores the economic rationale for, and consequence of, antitrust laws. In addition to economic analysis we will study landmark antitrust cases.	3.00	20	Th 1:30-3:50PM
AS.180.321	01	S		The Economics of Growing-Up <i>Pauley, Gwyn Carter</i> Prereqs: 180.301; Students should also be comfortable with regression analysis and concurrent enrollment or completion of 180.334 suggested.	3.00	25	TTh 9:00-10:15AM
AS.180.334	01	QS		Econometrics <i>Staff</i> Prereqs: Statistical Analysis (550.111 or 550.420); Pre- or Co-requisites 180.301 AND 180.302. Introduction to the methods of estimation in economic research. The first part of the course develops the primary method employed in economic research, the method of least squares. This is followed by an investigation of the performance of the method in a variety of important situations. The development of a way to handle many of the situations in which ordinary least squares is not useful, the method of instrumental variables, concludes the course.	3.00	30	M 3:00-5:30PM; F 3:00-3:50PM
AS.180.334	02	QS		Econometrics	3.00	37	M 3:00-5:30PM; Th 1:30-2:20PM
AS.180.351	01	S		Labor Economics	3.00	25	W 3:00-5:30PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Staff</i>			
				Prereq: 180.301			
				This a one semester course in labor economics for undergraduate students. Labor economics is the study of labor markets. We will survey a broad range topics: labor supply and demand, employment contracting and personnel economics, labor unions, investments in education and training, discrimination, and patterns of inequality. We will also discuss applications of economic theory to important public policy issues such as minimum wage laws, welfare reform, financial aid for college, and affirmative action. In addition, this course will survey basic empirical patterns and issues concerning the labor market in the US and other developed countries.			
AS.180.355	01	S		Economics of Poverty and Inequality <i>Moffitt, Robert A</i>	3.00	30	TTh 10:30-11:45AM
				This course focuses on the economics of poverty and inequality. It covers the measurement of poverty and inequality, facts and trends over time, the causes of poverty and inequality with a focus on those related to earnings and the labor market, and public policy toward poverty and inequality, covering both taxation and government expenditure and programs. By the nature of the material, the course is fairly statistical and quantitative. Several sections make use of intermediate microeconomic concepts, so Economics 301 or an equivalent is a prerequisite. Basic knowledge of regression analysis is also helpful.			
AS.180.367	01	S		Investment-Portfolio Mgt <i>Wright, Jonathan H</i>	3.00	60	TTh 10:30-11:45AM
				Investment securities and their markets, especially the stock market. The relation between expected return and risk. The determination of security prices. Financial portfolio selection. The assessment of performance of managed portfolios.			
AS.180.373	01	S		Corporate Restructuring <i>Eraslan, Hulya</i>	3.00	25	Th 1:30-3:50PM
				Prerequisite: 180.366			
				The objective of this course is to familiarize students with financial, legal and strategic issues associated with corporate restructuring process. Main focus of the course is on the restructuring of financially distressed firms. The course surveys a variety of restructuring methods (out-of-court workouts, exchange offers, prepackaged bankruptcies, Chapter 11 bankruptcies, insolvency practices in other countries) available to troubled firms. A small portion of the course is concerned with restructuring employee contracts and equity claims (equity carve-outs, spin-offs, tracking stock).			
AS.360.247	01	S	W	Introduction to Social Policy: Baltimore and Beyond <i>Deluca, Stefanie</i>	3.00	75	T 12:00-1:15PM; Th 12:00-1:15PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<p>How can we address pressing social problems, such as inner city poverty, inequality in educational attainment among children from different backgrounds, and disparities in access to health care? Social policy refers to the programs, legislation and governmental activities that regulate access to important social, financial and institutional resources needed by members of a society to address these concerns.</p> <p>Social policy also aims to reduce inequality, especially in the areas of education, health, income, housing, neighborhoods, and employment. The study of social policy is interdisciplinary, and this course will introduce students to the basic concepts in economics, political science, and sociology relevant to the study of social problems and the programs designed to remedy them. We will cover issues of national policy importance, as well as issues specifically affecting Baltimore City and the metropolitan region. This course is open to all students, but will be required for the new Social Policy Minor. The course is also recommended for students who are interested in law school, medical school, programs in public health, and graduate school in related social science fields. Cross list with Sociology, Economics and Political Science.</p>			
EN.570.428	01	S	W	<p>Problems in Applied Economics <i>Hanke, Steve H</i></p> <p>Permission Required. This course brings the principles of economic theory to bear upon particular problems in the fields of economics, finance and public policy. Micro, macro and international problems, from both the private and public sectors, are addressed. A heavy emphasis is placed on research and writing. Students learn how to properly conduct substantive economic research, utilizing statistical techniques and lessons from economic history. Findings are presented in the form of either memoranda or working papers. Exceptional work may be suitable for publication through the Johns Hopkins Institute for Applied Economics, Global Health, and the Study of Business Enterprise.</p>	3.00	29	TBA
EN.570.470	01	QS	W	<p>Applied Econ & Finance <i>Hanke, Steve H</i></p> <p>Prerequisite EN.660.203 – Permission Required. This course focuses on company valuations, using the proprietary Hanke-Guttridge Discounted Free Cash Flow Model. Students use the model and data from financial statements filed with the Securities and Exchange Commission to calculate the value of publicly-traded companies. Using Monte Carlo simulations, students also generate forecast scenarios, project likely share-price ranges and assess potential gains/losses. Stress is placed on using these simulations to diagnose the subjective market expectations contained in current objective market prices, and the robustness of these expectations. During the weekly seminar, students' company valuations are reviewed and critiqued.</p>	3.00	15	F 1:30-4:30PM

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Economics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.570.487	01	S	W	Financial Market Research <i>Hanke, Steve H</i> Permission Required. This course investigates the workings of financial, foreign exchange, and commodity futures markets. Research is focused on price behavior, speculation, and hedging in these markets. Extensive research and writing is required. Exceptional work may be suitable for publication through the Johns Hopkins Institute for Applied Economics, Global Health, and the Study of Business Enterprise.	3.00	10	TBA

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English

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.060.100	01	H	W	Intro Expository Writing <i>Kain, Patricia</i> Freshmen only. Offered only in the fall, this course is designed to help less experienced writers succeed with the demands of college writing. Students learn how to read and summarize texts, how to analyze texts, and how to organize their thinking in clearly written essays. Emphasis is on analysis and the skills that analysis depends upon.	3.00	10	MW 12:00-1:15PM
AS.060.100	02	H	W	Intro Expository Writing <i>Evans, William</i>	3.00	10	MW 1:30-2:45PM
AS.060.100	03	H	W	Intro Expository Writing	3.00	10	MW 3:00-4:15PM
AS.060.100	04	H	W	Intro Expository Writing <i>Manekin, Sarah D</i>	3.00	10	TTh 10:30-11:45AM
AS.060.100	05	H	W	Intro Expository Writing	3.00	10	TTh 12:00-1:15PM
AS.060.107	02	H	W	Introduction to Literary Study <i>Nealon, Christopher</i> See section descriptions.	3.00	20	TTh 1:30-2:45PM
AS.060.107	03	H	W	Introduction to Literary Study <i>Hickman, Jared W</i>	3.00	20	MW 1:30-2:45PM
AS.060.113	01	H	W	Expository Writing <i>Staff</i> No seniors. This course teaches students the concepts and strategies of academic argument. Students learn to analyze and evaluate sources, to develop their thinking with evidence, and to use analysis to write clear and persuasive arguments. Each section focuses on its own intellectually stimulating topic or theme, but the central subject of all sections is using analysis to create arguments. Please note: Each course has a different topic. To check individual course descriptions, go to the EWP web site: http://web.jhu.edu/ewp .	3.00	15	MWF 9:00-9:50AM
AS.060.113	02	H	W	Expository Writing	3.00	15	MWF 10:00-10:50AM
AS.060.113	03	H	W	Expository Writing	3.00	15	MWF 10:00-10:50AM
AS.060.113	04	H	W	Expository Writing	3.00	15	MWF 10:00-10:50AM
AS.060.113	05	H	W	Expository Writing	3.00	15	MWF 11:00-11:50AM
AS.060.113	06	H	W	Expository Writing	3.00	15	MWF 11:00-11:50AM
AS.060.113	07	H	W	Expository Writing	3.00	15	MWF 11:00-11:50AM
AS.060.113	08	H	W	Expository Writing	3.00	15	MW 12:00-1:15PM
AS.060.113	09	H	W	Expository Writing	3.00	15	MW 12:00-1:15PM
AS.060.113	10	H	W	Expository Writing	3.00	15	MW 1:30-2:45PM
AS.060.113	11	H	W	Expository Writing	3.00	15	MW 1:30-2:45PM
AS.060.113	12	H	W	Expository Writing	3.00	15	MW 3:00-4:15PM
AS.060.113	13	H	W	Expository Writing	3.00	15	TTh 9:00-10:15AM
AS.060.113	14	H	W	Expository Writing	3.00	15	TTh 9:00-10:15AM
AS.060.113	15	H	W	Expository Writing	3.00	15	TTh 10:30-11:45AM
AS.060.113	16	H	W	Expository Writing	3.00	15	TTh 10:30-11:45AM
AS.060.113	17	H	W	Expository Writing	3.00	15	TTh 10:30-11:45AM
AS.060.113	18	H	W	Expository Writing	3.00	15	TTh 12:00-1:15PM
AS.060.113	19	H	W	Expository Writing	3.00	15	TTh 12:00-1:15PM
AS.060.113	20	H	W	Expository Writing	3.00	15	TTh 12:00-1:15PM

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English

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.060.113	21	H	W	Expository Writing	3.00	15	TTh 1:30-2:45PM
AS.060.113	22	H	W	Expository Writing	3.00	15	TTh 1:30-2:45PM
AS.060.113	23	H	W	Expository Writing	3.00	15	TTh 3:00-4:15PM
AS.060.151	01	H	W	American Literature, Race, and Civil Rights <i>Sundquist, Eric J</i> The course will explore the role played by literature in advancing and reflecting upon the African American pursuit of freedom and civil rights over the course of the twentieth century, from the era of harsh segregation through the post-Civil Rights era. Although we will focus primarily on fiction, we will also consider essays, autobiography, and poetry. Writers to be considered, mostly black but some white, may include James Weldon Johnson, Ralph Ellison, Richard Wright, Ann Petry, James Baldwin, William Faulkner, Harper Lee, William Melvin Kelley, Malcolm X, Amiri Baraka, Toni Morrison, and Paule Marshall. This class is for non-majors.	3.00	18	WF 12:00-1:15PM
AS.060.211	01	H		British Literature I <i>Daniel, Andrew</i> What is British Literature? Beginning in the fourteenth century and concluding in the eighteenth century, this survey course examines the time period in which the notion of vernacular English literature, the corporate body of "Great Britain" as a national framework, and, with it, "British-ness" as an imaginary, synthetic identity, were all created. Participants will read a representative group of Geoffrey Chaucer's "The Canterbury Tales", Book I of Edmund Spenser's "The Faerie Queene", the entirety of John Milton's "Paradise Lost", and Alexander Pope's "The Rape of the Lock." The course is designed as an introductory level lecture course and is open to all students curious about the beginnings of the English literary canon. It is recommended that students follow this course with its sequel, Professor Mao's "British Literature II," which will be offered the following semester. Pre-1800 course	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.060.211	02	H		British Literature I	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.060.211	03	H		British Literature I	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.060.224	01	H		The Modern Novel <i>Grener, Adam</i> This course covers the British novel from the late nineteenth century to the present, with a particular focus on the decades around World War I. We'll balance attention to formal innovations and experiments with consideration of social and historical context, exploring issues such as gender, empire, psychology, the city, and war. Our goal will be to understand what makes these novels "modern" and sets them apart from their predecessors; to this end, we'll examine how many important authors also wrote extensively on the craft and aims of fiction. Readings will include representative selections by authors such as Henry James, James Joyce, Ford Madox Ford, E.M. Forster, Virginia Woolf, Jean Rhys, and Ian McEwan.	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM
AS.060.224	02	H		The Modern Novel	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM

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English

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.060.307	01	H	W	Training\Writing\Consulting Staff A one credit course for those undergrads who have been nominated as Writing Center tutors. Permission required.	1.00	10	T 5:00-6:50PM
AS.060.309	01	H	W	Home and Wanderlust in Modernist Literature <i>Zhang, Nan</i> This course will examine forms of wanderlust and tensions between rootedness in one's own culture and a cosmopolitan orientation in Henry James, Joyce, Tagore, Hemingway, Isak Dinesen, and Hualing Nieh. Dean's Teaching Fellowship course.	3.00	18	TTh 9:00-10:15AM
AS.060.310	01	H	W	Work and Worth in American Literature <i>Tempesta, Erica N</i> This course will engage contemporary discussions of economics, labor, and vocation with representations of people at work in the writings of Douglass, Melville, Hurston, Steinbeck, Frost, Yates, Springsteen, and others. Dean's Teaching Fellowship Course	3.00	18	TTh 9:00-10:15AM
AS.060.317	01	H	W	Time Well Wasted: Reading Fiction in the 18th Century <i>Maioli dos Santos, Roger</i> Is reading fiction just escapism? Or can novels speak to us about real life? We will discuss this question by reading classic works by Defoe, Swift, Fielding, and Sterne. Dean's Teaching Fellowship Course. Pre 1800 course	3.00	18	MW 3:00-4:15PM
AS.060.327	01	H	W	Best Sellers in the Early Nineteenth Century: Sir Walter Scott, Lord Byron, and Jane Austen <i>Bujak, Nicholas</i> Sir Walter Scott and Lord Byron were the best-selling authors of their day by a significant margin. In this course, we'll attempt to come to terms with their unprecedented success, which was felt within the business of the publishing industry as much as it was in the minds of their fellow writers. Readings include Scott's poems set in Scotland's legendary past, Byron's scandalous and heroic poems (including his masterpiece, "Don Juan"), as well as a novel by their less-popular contemporary, Jane Austen, whose formally elegant novels must be understood as drawing on and competing with the works of her age's most dominant literary figures. Additionally, we'll place a strong emphasis on understanding how the workings of the publishing industry affected not only the habits of reading, but also of writing, during this crucial period in literary history. Secondary readings will help to situate the authors and primary texts in their historical and literary context, and provide practical tools for literary analysis. Assignments will include reading quizzes, response papers, and three longer papers. Dean's Teaching Fellowship Course	3.00	18	MW 3:00-4:15PM
AS.060.328	01	H	W	Restoration and 18th Century Literature <i>Kramnick, Jonathan B</i>	3.00	18	T 1:30-3:50PM

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English

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Pre-requisite: 060.107 This course is a survey of the major authors and genres in English from 1660-1800. Topics include the rise of the novel, politics and satire, gender and women writers, landscape and ecological consciousness, philosophy, science and literature.			
AS.060.331	01	H	W	Poetry and Perfect Worlds <i>Mao, Douglas</i> A seminar exploring poetic representations of ideal realms. Beginning with classical pastorals, we will move on to medieval and Renaissance arcadias, Romantic geographies, modernist utopias, and the ecopoetics and necropastoral of the twenty-first century. We will consider in detail what makes a place Edenic or utopian and how the fabrication of an imaginary world relates to the construction of a poetic text. Writers studied may include Theocritus, Virgil, Chaucer, Spenser, Milton, Shelley, Tennyson, T. S. Eliot, W. H. Auden, Lisa Robertson, and Juliana Spahr.	3.00	18	W 1:30-3:50PM
AS.060.345	01	H	W	Mapping Victorian England <i>Grener, Adam</i> The landscape of England changed dramatically during the course of the nineteenth-century, from the unprecedented expansion of the British Empire and the rapid growth of cities and urban environments, to the increasing psychological investment in more confined spaces like the home. In this course, we'll explore how Victorian literature "maps" these various spaces and, perhaps more importantly, the connections between them. The bulk of our reading will be novels by authors such as Charles Dickens, Elizabeth Gaskell, George Eliot, Anthony Trollope, Thomas Hardy, and Rudyard Kipling, though we'll also turn to poems, non-fiction prose, and short theoretical readings to enrich our understanding of how Victorian writers attempted to represent the spatial, social, and economic geography of their nation. In addition to examining the "horizontal" connections drawn by these novels—between, for example, the country and the city, the colonies and the capital, the home and the nation as a whole—we'll also explore how these novelists draw on intellectual developments like the emerging Darwinian worldview and incorporate what we might call "vertical" mapping to understand how the past shapes the present. Throughout, we'll pay careful attention to how these writers represent the specificity of place and investigate the influence of environment on character and personal development.	3.00	18	W 2:30-4:50PM
AS.060.347	01	H	W	American Bibles <i>Hickman, Jared W</i>	3.00	18	Th 1:30-3:50PM

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English

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: 060.107 or a lecture course in the English department. This course will examine texts drawn from across the Americas—from Mather's <i>Magnalia Christi Americana</i> to Melville's <i>Moby-Dick</i> to Euclides da Cunha's <i>Os Sertões</i> (Rebellion in the Backlands) to Kushner's <i>Angels in America</i> —that are fundamentally biblical in their inspirations, aspirations, proportions, and allusions. We will consider these texts' attempts, in the face of globalizing and secularizing forces like Atlantic slavery and German higher criticism, to affirm, undermine, appropriate, and redirect the authority of the ur-canonical text. Prerequisite: ILS or lecture course in English department.			
AS.300.330	01	HS		Trauma in Theory, Film, and Fiction <i>Leys, Ruth</i> An examination of the representation of trauma in literary theory, psychiatry, survivor literature, films, novels, and comics. Works by Sebald ("The Emigrants"), Lanzmann ("Shoah"), Spiegelman ("In the Shadow of No Towers"), McCarthy ("Remainder"), and others.	3.00	15	T 1:30-3:50PM
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i> Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Shakespeare, Douglass, and Woolf.	3.00	15	MW 12:00-1:15PM
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	MW 12:00-1:15PM
AS.360.133	03	H	W	Great Books at Hopkins <i>Strowick, Elisabeth</i>	3.00	15	MW 12:00-1:15PM

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Film and Media Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.061.140	01	H		Introduction to Cinema, 1892-1941 <i>Ward, Meredith C</i> This course teaches students the fundamentals of film analysis and leads them through the first half of our first century of movies. We will focus on the basic elements of film form, as well as their manipulation and use in films across the globe from the turn of the century until the start of World War II. Movements discussed include the silent comedy of Charles Chaplin and Buster Keaton, German Expressionism, Surrealism, Soviet Montage, French poetic realism, Pre-Production Code cinema, and, of course, classical Hollywood. Screenings are required for this course. Lab fee: \$40	3.00	50	MW 12:00-1:15PM; F 12:00-2:20PM
AS.061.145	01	H		Intro to Visual Language <i>Yasinsky, Karen</i> This course is a study of the visual language used to create a moving picture. Through screenings and discussion of films and related readings, students will develop a visual critical facility and will demonstrate this facility in weekly response papers and the creation of short videos. The course will focus on image construction, editing and sound. Students will learn to be attentive to composition, movement within the frame, and rhythm and tempo in picture editing. We will also have a few in-class video assignments that students will work on in small groups of three. \$40 lab fee.	3.00	9	Th 7:30-10:00PM; T 1:30-3:50PM
AS.061.150	01	H		Introduction to Film Production <i>Mann, John</i> This course introduces students to the basic considerations of shooting 16mm film. Through lectures and practice, the course approaches the basics of light meter readings, basic camera operations and shot composition. Each week students, working in groups of three, shoot film exercises providing a general overview of film production. For the final project, each student shoots and edits (physical edits) a short (3-5 minutes) film on 16mm black and white reversal film stock.	3.00	12	M 12:00-2:30PM
AS.061.152	01	H		Introduction to Digital Film <i>Roche, Jimmy</i> This course introduces students to the world of digital filmmaking. Through screenings, production assignments, and in-class labs, students will develop proficiency in digital cameras, sound recording devices, and software. Students will work individually and in groups to produce several video projects. For their final projects students will pitch an idea and develop a more complex film. Lab fee: \$100	3.00	9	W 1:30-3:50PM
AS.061.164	01			Lights, Camera, Action: Woody Allen <i>Bucknell, Lucy</i>	1.00	45	W 4:30-7:30PM

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Film and Media Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				An introduction to the basics of film analysis, focusing on the work of the highly individual independent filmmaker Woody Allen. Short weekly written responses, in-class screenings, and emphasis on discussion over lecture. No prior experience in film studies required. This one-credit course will meet on Sept. 18, Sept. 25, Oct. 2, and Oct. 9 and will be graded pass/fail.			
AS.061.202	01	H		Intermediate Film Production: Personal Essay Film <i>Mann, John</i> Prereq: 061.150	3.00	9	F 12:00-2:30PM
				In this course students will consider variations of the personal essay film, wherein filmmakers explore their own experiences, both real and imagined. These films constitute dialogues between filmmaker and world using subjective approaches, including but not limited to first person narration. Students will make a short (4-6 minutes) 16mm film from original and possibly archival footage-their own filmic essays based upon personal experiences. We will look at the works of several essay filmmakers including Ross McElwee, Jean Luc Godard, Chris Marker and Su Friedrich.			
AS.061.220	01	H		Special Topics: Silent Classics <i>Bucknell, Lucy</i> Prereqs: 061.140, 061.141 or instructor permission.	3.00	15	W 1:30-3:50PM; T 7:30-10:00PM
				A review of the basics of film analysis through a survey of silent era classics including films by Chaplin, Eisenstein, Keaton, Lubitsch, Murnau, Von Sternberg, and others.			
AS.061.221	01			Special Topics-Producing the Independent Film <i>Porterfield, Matthew</i> Prereqs: One 100-level production course (061.150; 061.145; 061.151; 061.152)	3.00	14	T 4:00-6:20PM
				This course will walk students through the process of producing an independent film in the United States, from financing and development, through production, post-production, marketing and exhibition.			
AS.061.307	01	H		In the City <i>Bucknell, Lucy</i> Prereqs: 061.140, 061.141 or instructor permission.	3.00	15	M 3:00-5:20PM; Th 7:30-10:00PM
				Glittering or gritty, rich with opportunity or "pestilential to the morals, the health, and the liberties of man": the city in popular film from the silent era to the present.			
AS.061.343	01			Deadwood and American Justice <i>Gonzalez, Eduardo</i> Prereqs: 061.140 or 061.141	3.00	15	Th 1:30-3:50PM
				The course aims at generating well-grounded discussion on issues of justice and social fairness in the wilderness of American westward colonization and spoliation. Issues such as the rule of foul language, chattel sex work, grassroots democracy, gun justice, and other basic elements of the American ethos of conquest and populist sovereignty.			

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.061.358	01	H		Directing Actors <i>Porterfield, Matthew</i> Prereqs: 061.140 or 061.141 This class, intended for students of film, will explore the theory, practice, and ethics of directing actors for the screen. Texts, screenings, production and performance exercises will be combined over the course of the semester. The goal of this workshop is to inspire young directors and enhance their ability to communicate with their cast with confidence and empathy.	3.00	14	W 4:00-6:20PM
AS.061.370	01	H		Theorizing Popular Culture <i>Ward, Meredith C</i> Prereqs: 061.140 or 061.141 This course explores the changing role of popular culture via the major paradigms through which it has been considered. Presents a range of media from contemporary popular music to film and television.	3.00	20	T 1:30-3:50PM; M 7:30-10:00PM
AS.061.399	01	H		Stop-Motion Puppet Animation <i>Yasinsky, Karen</i> Prereqs: 061.140 or 061.141 or 061.150 Students will create their own stop-motion models (puppets) based on a wire armature model. In small groups, students will design and create a simple set and make a short stop-motion movie using a DSLR camera. The question of "why animate" will be explored in student projects and responses to screenings. We will study the history of stop motion puppet animation from Starewicz to Svankmajer to Nick Park.	3.00	8	M 3:00-5:30PM
AS.061.440	01	H		Sr Project-Film <i>Mann, John</i> Perm. Req'd. Senior students develop and complete a short 16mm film.	3.00	15	TBA
AS.061.440	02	H		Sr Project-Film <i>Porterfield, Matthew</i>	3.00	15	TBA
AS.215.451	01	H		El Cine de Pedro Almodovar <i>Gonzalez, Eduardo</i> El arte cinematográfico del gran cineasta español será estudiado a través de su obra, vista en partes selectas, obras enteras y dentro del marco escénico provisto por otras películas del cine español. Prerequisite Advance Spanish or demonstrated proficiency in the language	3.00	25	M 1:30-3:45PM
AS.220.204	01	H	W	Introduction to Dramatic Writing: Film <i>Lapadula, Marc</i> An examination of the screenplay as a literary text and blue print for production. Professional screenplays will be critically analyzed, with focus on character, dialogue, plot development, conflict, pacing, dramatic foreshadowing, the element of surprise, text and subtext, and visual story-telling. Students write one complete script.	3.00	15	F 4:30-6:50PM
AS.220.337	01	H	W	Intermediate Dramatic Writing: Film <i>Lapadula, Marc</i>	3.00	15	F 1:30-3:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereqs: 220.204; Perm. Req'd An intensive workshop focusing on methodology: enhancing original characterization, plot development, conflict, story, pacing, dramatic foreshadowing, the element of surprise, text and subtext, act structure and visual storytelling. Each student is expected to present sections of his/her "screenplay-in-progress" to the class for discussion. The screenplay Chinatown will be used as a basic text.			
AS.300.366	01	H	W	Russian Avant-Garde Cinema <i>Eakin Moss, Anne</i> Russian cinema was born out of the intense artistic experimentation of the fin-de-siècle avant-garde and developed in a climate of dramatic political and cultural change in the twenties and thirties. While subject to draconian censorship in the Soviet period, it nonetheless engaged in active dialogue with the film industries of Western Europe and America and had a lasting impact on world cinema. This course examines the extraordinary flourishing of avant-garde cinema in the Soviet Union in the 1920s and 30s including films by Eisenstein, Vertov, Pudovkin and Dovzhenko, their theoretical writings, and their far-reaching influence on film and film theory. All readings in English, films subtitled in English.	3.00	25	MW 1:30-2:45PM

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German & Romance Languages & Literatures

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.210.101	01			French Elements I <i>Staff</i> Prereq: No previous knowledge of French or webcape score of 0-200 (online placement exam link available at grll.jhu.edu) Provides a multi-faceted approach to teaching language and culture to the novice French student. The emphasis of the course is an aural-oral proficiency without neglecting the other skills of grammar structure, phonetics, reading, and writing; must complete both semesters successfully in order to receive credit. May not be taken on a satisfactory/unsatisfactory basis.	4.00	17	MWF 9:00-9:50AM; T 10:30-11:20AM
AS.210.101	02			French Elements I	4.00	17	MWF 10:00-10:50AM; T 10:30-11:20AM
AS.210.101	03			French Elements I	4.00	17	MWF 10:00-10:50AM; T 10:30-11:20AM
AS.210.101	04			French Elements I	4.00	17	MWF 11:00-11:50AM; T 10:30-11:20AM
AS.210.101	05			French Elements I	4.00	17	MWF 12:00-12:50PM; T 10:30-11:20AM
AS.210.111	01			Spanish Elements I <i>Staff</i> Prereq: Appropriate Placement Exam (Webcape) score Development of the four basic language skills of reading, writing, listening and speaking. Extensive use of an online component delivered via Blackboard, sustained class participation, and three hourly exams (no midterm and no final). In order to receive credit for 210.111, 210.112 must also be completed with a passing grade. May not be taken Satisfactory/Unsatisfactory.	4.00	24	MW 9:00-9:50AM; None
AS.210.111	02			Spanish Elements I	4.00	17	MWF 10:00-10:50AM
AS.210.111	03			Spanish Elements I	4.00	17	MWF 11:00-11:50AM
AS.210.111	04			Spanish Elements I	4.00	17	MWF 12:00-12:50PM
AS.210.111	05			Spanish Elements I	4.00	17	MWF 12:00-12:50PM
AS.210.112	01			Spanish Elements II <i>Staff</i> Prereq: 210.111 or appropriate Placement Exam (Webcape) score Continuation of Spanish Elements I. Further development of the four basic language skills of reading, writing, listening and speaking. Extensive use of an online component delivered via Blackboard, sustained class participation, and three hourly exams (no midterm and no final). May not be taken Satisfactory/ Unsatisfactory. No new enrollments for this course permitted after Monday, September 10th. Course Coordinator: Michelle Tracy	4.00	24	TBA
AS.210.112	02			Spanish Elements II	4.00	17	MWF 10:00-10:50AM
AS.210.112	03			Spanish Elements II	4.00	17	MWF 11:00-11:50AM
AS.210.112	04			Spanish Elements II	4.00	17	MWF 12:00-12:50PM
AS.210.151	01			Italian Elements I <i>Staff</i>	4.00	17	MWF 9:00-9:50AM

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German & Romance Languages & Literatures

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Course helps students develop basic listening, reading, writing, speaking, and interactional skills in Italian. The content of the course is highly communicative, and students are constantly presented with real-life, task-based activities. Course adopts a continuous assessment system (no mid-term and no final). No S/U option. Both semesters of Italian Elements (210.151 and 210.152) must be completed satisfactorily in order to receive credit for this course.			
AS.210.151	02			Italian Elements I	4.00	17	MWF 10:00-10:50AM
AS.210.151	03			Italian Elements I	4.00	17	MWF 11:00-11:50AM
AS.210.151	04			Italian Elements I	4.00	17	MWF 12:00-12:50PM
AS.210.161	01			German Elements I <i>Staff</i> Four skills introduction to the German language and culture. Develops proficiency in speaking, writing, reading and listening skills through the use of basic texts, multi-media and communicative language activities. Online tools required. Both semesters must be completed with passing grades to receive credit. May not be taken on a satisfactory/unsatisfactory basis. Tuesday section is a mandatory hour. Choose your section based on the MWF time. Conflicts with Tuesday hour can be resolved after start of semester. Course coordinator: Deborah Mifflin	4.00	17	MWF 9:00-9:50AM; T 9:00-9:50AM
AS.210.161	02			German Elements I	4.00	17	T 10:30-11:20AM; MWF 10:00-10:50AM
AS.210.161	03			German Elements I	4.00	17	MWF 11:00-11:50AM; T 12:00-12:50PM
AS.210.163	01			Elementary Yiddish I <i>Caplan, Beatrice</i> Yearlong course. Includes the four language skills: reading, writing, listening, and speaking and introduces students to Yiddish culture through text, song, and film. Emphasis is placed both on the acquisition of Yiddish as a tool for the study of Yiddish literature and Ashkenazic history and culture, and on the active use of the language in oral and written communication. Both semesters must be taken with a passing grade to receive credit. Cannot be taken satisfactory/unsatisfactory.	3.00	12	TTh 9:00-10:15AM
AS.210.177	01			Portuguese Elements <i>Bensabat Ott, Mary M</i> This one-year course introduces students to the basic skills in reading, writing, and speaking the language. Emphasis is placed on oral communication with, however, extensive training in written and listening skills. Class participation is encouraged from the very beginning. All classes are conducted in Portuguese. Extensive language lab is required. Students must complete both semesters with passing grades to receive credit. May not be taken on a satisfactory/unsatisfactory basis. No previous knowledge of Portuguese is required.	4.00	25	MWF 11:00-11:50AM
AS.210.201	01	H		Intermediate French I	3.00	17	MWF 9:00-9:50AM

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German & Romance Languages & Literatures

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Staff</i>			
				A two-semester course conducted entirely in French, this course develops skills in speaking, listening comprehension, reading, and writing. Systematic review of language structures with focus on oral communication and acquisition of vocabulary; extensive practice in writing; readings and films from French-speaking countries. Course coordinator: Suzanne Roos. Prerequisites: 210.101-102 or appropriate score on Webcape exam.			
AS.210.201	02	H		Intermediate French I	3.00	17	MWF 10:00-10:50AM
AS.210.201	03	H		Intermediate French I	3.00	17	MWF 11:00-11:50AM
AS.210.201	04	H		Intermediate French I	3.00	17	MWF 11:00-11:50AM
AS.210.201	05	H		Intermediate French I	3.00	17	MWF 12:00-12:50PM
AS.210.201	06	H		Intermediate French I	3.00	17	MWF 12:00-12:50PM
AS.210.209	01	H		The Sounds of French	3.00	9	TTh 10:30-11:45AM
				<i>Anderson, Bruce</i>			
				This course introduces students to the sound system of French: its development over centuries, its standardized Parisian form versus regional and international dialects and accents, and the popularity of "word games" (abbreviations, acronyms, and verlan). The course will include extensive practice in perceiving, articulating, and transcribing sounds, words, and intonation groups through viewing film clips, listening to songs, and completing in-class lab assignments. Recorded speech samples obtained at the beginning, middle, and end of the semester will allow students to track their progress in moving toward more native like pronunciation and intonation. Prerequisite: French Elements or equivalent; may be taken concurrently with Intermediate French (as 210.205) or Advanced Writing & Speaking in French (as 210.305).			
AS.210.211	01	H		Intermediate Spanish I	3.00	24	MW 9:00-9:50AM; None
				<i>Staff</i>			
				Prereq: 210.112 or appropriate Placement Exam (Webcape) score. Continues building on the four essential skills for communication presented in Spanish Elements courses. Extensive use of an online component delivered via Blackboard, sustained class participation, and three hourly exams (no midterm and no final). May not be taken Satisfactory/ Unsatisfactory. No new enrollments for this course permitted after Monday, September 10th. Course Coordinator: Barry Weingarten			
AS.210.211	02	H		Intermediate Spanish I	3.00	17	MWF 10:00-10:50AM
AS.210.211	03	H		Intermediate Spanish I	3.00	17	MWF 10:00-10:50AM
AS.210.211	04	H		Intermediate Spanish I	3.00	17	MWF 11:00-11:50AM
AS.210.211	05	H		Intermediate Spanish I	3.00	17	MWF 12:00-12:50PM
AS.210.212	01	H		Intermediate Spanish II	3.00	17	MWF 9:00-9:50AM
				<i>Staff</i>			

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				Prereq: 210.211 or appropriate Webcape score Continues building on the four essential skills for communication presented in Spanish Elements courses and in Intermediate Spanish I. Extensive use of an online component delivered via Blackboard, sustained class participation, and three hourly exams (no midterm and no final). May not be taken Satisfactory/Unsatisfactory. No new enrollments for this course permitted after Monday, September 10th. Course Coordinator: Barry Weingarten			
AS.210.212	02	H		Intermediate Spanish II	3.00	17	MWF 10:00-10:50AM
AS.210.212	03	H		Intermediate Spanish II	3.00	17	MWF 11:00-11:50AM
AS.210.212	04	H		Intermediate Spanish II	3.00	17	MWF 11:00-11:50AM
AS.210.212	05	H		Intermediate Spanish II	3.00	17	MWF 12:00-12:50PM
AS.210.251	02	H		Intermediate Italian I <i>Staff</i>	3.00	15	MWF 10:00-10:50AM
				Prereqs: AS.210.152 or Placement Exam – Part 1. Course continues building on the four essential skills for communication presented in Italian Elements courses. Improvement of reading and composition skills through the use of contemporary texts, reinforcement of the student's knowledge of the language through weekly oral and written presentations on predetermined subjects. Class participation is essential. All classes are conducted in Italian. Course adopts a continuous assessment system (no mid-term and no final). No S/U option. Course coordinator: Alessandro Zannirato			
AS.210.251	03	H		Intermediate Italian I	3.00	15	MWF 11:00-11:50AM
AS.210.251	04	H		Intermediate Italian I	3.00	12	MWF 12:00-12:50PM
AS.210.261	01	H		Intermediate German I <i>Staff</i>	3.00	17	MWF 9:00-9:50AM
				Prereq: 210.162 or placement by exam. Limit 17/section This course continues the same four-skills approach (speaking, writing, reading and listening) from the first-year sequence, introducing and practicing more advanced topics and structures. Expansion and extension through topical readings and discussion and multi-media materials. Online tools required. Taught in German. Course coordinator: Heidi Wheeler			
AS.210.261	02	H		Intermediate German I	3.00	17	MWF 10:00-10:50AM
AS.210.261	03	H		Intermediate German I	3.00	12	MWF 11:00-11:50AM
AS.210.261	04	H		Intermediate German I	3.00	17	MW 12:00-1:15PM
AS.210.263	01	H		Intermediate Yiddish I <i>Caplan, Beatrice</i>	3.00	15	TTh 12:00-1:15PM
				This course will focus on understanding the Yiddish language as a key to understanding the culture of Yiddish-speaking Jews. Emphasis will be placed on reading literary texts and historical documents. These primary sources will be used as a springboard for work on the other language skills: writing, listening, and speaking. Prerequisite: 210.164 or equivalent; or two years of German and permission of instructor.			

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AS.210.277	01	H		Intermediate/ Advanced Portuguese <i>Bensabat Ott, Mary M</i> More advanced training in the skills of the language with emphasis on vocabulary building, ease and fluency in the language through the use of a multifaceted approach. Materials used immerse students in the cultures of Brazil, Portugal, and Portuguese-speaking Africa, and reflect the mix of cultures at work in the contemporary Lusophone world. All classes are conducted in Portuguese. Extensive language lab is required. May not be taken on a satisfactory/unsatisfactory basis. Pre-requisites: AS.210.177/178, or placement test.	3.00	12	MWF 10:00-10:50AM
AS.210.301	01	H	W	Advanced Writing and Speaking in French <i>Staff</i> This very interactive third-year language course proposes, in the shape of animated class discussions, to 1) read fictional and non fictional texts through the French explication de textes approach 2) review and develop grammar and conjugation skills 3) learn an array of new vocabulary as well as idiomatic expressions used in everyday speech. Focus will be placed on improving language skills through an individualized review of grammar and vocabulary. Course Coordinator: Bruce Anderson	3.00	17	MWF 9:00-9:50AM
AS.210.301	02	H	W	Advanced Writing and Speaking in French	3.00	17	MWF 10:00-10:50AM
AS.210.301	03	H	W	Advanced Writing and Speaking in French	3.00	17	MWF 10:00-10:50AM
AS.210.301	04	H	W	Advanced Writing and Speaking in French	3.00	17	MWF 11:00-11:50AM
AS.210.301	05	H	W	Advanced Writing and Speaking in French	3.00	17	MWF 11:00-11:50AM
AS.210.301	06	H	W	Advanced Writing and Speaking in French	3.00	17	MWF 12:00-12:50PM
AS.210.309	01	H		The Sounds of French <i>Anderson, Bruce</i> This course introduces students to the sound system of French: its development over centuries, its standardized Parisian form versus regional and international dialects and accents, and the popularity of "word games" (abbreviations, acronyms, and verlan). The course will include extensive practice in perceiving, articulating, and transcribing sounds, words, and intonation groups through viewing film clips, listening to songs, and completing in-class lab assignments. Recorded speech samples obtained at the beginning, middle, and end of the semester will allow students to track their progress in moving toward more nativelike pronunciation and intonation. Prerequisite: French Elements or equivalent; Advanced Writing & Speaking in French (may be taken concurrently) Meets with AS.210.209	3.00	8	TTh 10:30-11:45AM
AS.210.311	02	H		Advanced Spanish I <i>Martinez-Velez, Naiara</i>	3.00	15	MWF 10:00-10:50AM

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				Prereq: 210.212 or 210.213 or appropriate Webcape score A review and expansion of Spanish communicative skills. Students will be able to express opinions, narrate and describe in a variety of personal and professional contexts. Students will continue to improve linguistic proficiency while increasing cultural awareness. Students will also engage in more formal levels of written communication. This course also focuses on refinement of grammar. Extensive use of an online component delivered via Blackboard, sustained class participation, and three hourly exams (no midterm and no final). May not be taken satisfactory/unsatisfactory. Course Coordinator: Arancha Moreno Hubbard			
AS.210.311	03	H		Advanced Spanish I <i>Staff</i>	3.00	15	MWF 11:00-11:50AM
AS.210.311	04	H		Advanced Spanish I	3.00	15	MWF 11:00-11:50AM
AS.210.311	05	H		Advanced Spanish I	3.00	15	MWF 12:00-12:50PM
AS.210.311	06	H		Advanced Spanish I	3.00	15	MWF 1:00-1:50PM
AS.210.312	01	H		Advanced Spanish II <i>Staff</i> Prerequisites: 210.311 or appropriate Webcape score An in-depth review and expansion of Spanish communicative skills by focusing on the use of standard, spoken Spanish with an emphasis on colloquial and idiomatic expressions. Student will continue to improve linguistic proficiency while increasing cultural awareness, as well as engage in more formal levels of communication by discussing assigned literary and non-literary topics. They will increase their listening skills through movies and other listening comprehension exercises. The course will also focus on vocabulary acquisition. Extensive use of an online component delivered via Blackboard, sustained class participation, and three hourly exams (no midterm and no final) Course Coordinator: Arancha Moreno Hubbard	3.00	15	MWF 10:00-10:50AM
AS.210.312	02	H		Advanced Spanish II	3.00	15	MWF 11:00-11:50AM
AS.210.312	03	H		Advanced Spanish II	3.00	15	MWF 12:00-12:50PM
AS.210.312	04	H		Advanced Spanish II	3.00	15	MWF 9:00-9:50AM
AS.210.313	01	H		Medical Spanish <i>Staff</i> Prereq: 210.311 or appropriate Webcape score Students will increase their vocabulary and practice grammar structures closely related to the medical and health administration professions. All language skills are equally emphasized. Highly recommended to students in any of the health-related majors. There will be an intensive on-line component. May not be taken Satisfactory/ Unsatisfactory. Not open to native speakers. No new enrollments for this course permitted after Monday, September 10th. Course Coordinator: Maria Del Rosario Ramos	3.00	15	TTh 9:00-10:15AM
AS.210.313	02	H		Medical Spanish	3.00	15	TTh 12:00-1:15PM
AS.210.314	01	H		Spanish for International Commerce <i>Staff</i>	3.00	12	TTh 10:30-11:45AM

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				Prereqs: 210.311 or appropriate Webcape score Students will increase their vocabulary and practice grammar structures closely related to trade and business practices in the public and private sectors. All language skills are equally emphasized. Highly recommended to students majoring in Business and International Relations. There will be an intensive on-line component. No Satisfactory/ Unsatisfactory. No new enrollments for this course permitted after Monday, September 10th. Course Coordinator: Maria Del Rosario Ramos			
AS.210.316	01	H		Conversational Spanish <i>Staff</i>	3.00	15	TTh 10:30-11:45AM
				Prereq: 210.311 or appropriate Webcape score This course is designed for students who have attained an advanced level of proficiency in Spanish 210.312 and wish to improve their oral skills by focusing on the use of standard, spoken Spanish with an emphasis on colloquial and idiomatic expressions. Students are exposed to a deeper understanding of the cultures of the Spanish-speaking world through movies and other listening comprehension exercises. The course will mainly focus on conversation and vocabulary acquisition. This course is highly recommended for students going to JHU study abroad programs. May not be taken Satisfactory/ Unsatisfactory. No new enrollments for this course permitted after Monday, September 5th. Course Coordinator: Maria Del Roasario Ramos			
AS.210.316	02	H		Conversational Spanish	3.00	15	TTh 12:00-1:15PM
AS.210.351	01	H	W	Advanced Italian I <i>Staff</i>	3.00	15	MWF 10:00-10:50AM
				Prereq: AS.210.252 or Placement Exam – Parts 1 and 2 - Year course; must complete both semesters for credit. Course presents a systematic introduction to a variety of complex cultural and historical topics related to present-day Italy, emphasizing intercultural comparisons, interdisciplinarity, and encouraging a personal exploration of such topics. Course adopts a continuous assessment system (no mid-term and no final), and is conducted entirely in Italian. No S/U option. Course coordinator: Alessandro Zannirato			
AS.210.351	02	H	W	Advanced Italian I	3.00	15	MWF 11:00-11:50AM
AS.210.361	01	H	W	Adv German I: Cultural Topics of the Modern German-speaking World <i>Staff</i>	3.00	15	MWF 10:00-10:50AM
				Writing Intensive Prereq: 210.262 or placement by exam. Topically, this course focuses on defining moments in cultural history in German speaking countries in the 2nd half of the 20th century. Films, texts and other media provide a basis for discussing events in post-war Germany and Europe through reunification and beyond. A review and expansion of advanced grammatical concepts and vocabulary underlies the course. Focus on improving expression in writing and speaking. Taught in German. Course coordinator: Deborah Mifflin			

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AS.210.361	02	H	W	Adv German I: Cultural Topics of the Modern German-speaking World	3.00	15	MWF 11:00-11:50AM
AS.210.361	03	H	W	Adv German I: Cultural Topics of the Modern German-speaking World	3.00	15	MW 3:00-4:15PM
AS.210.391	01	H	W	Advanced Portuguese Language & Literature <i>Bensabat Ott, Mary M</i> This third-year course focuses on reading, writing, and oral expression. Under the supervision of the instructor, students will read one or two complete works by major Brazilian, Portuguese, and/or Afro-Portuguese writers each semester, followed by intense writing and oral discussion on the topics covered. Grammar will be reviewed as necessary. Lab work is required. All classes are conducted in Portuguese. Prereq: 210.277.278 or placement exam . Permission Req'd.	3.00	25	MWF 9:00-9:50AM
AS.210.405	01	H		Community Based Learning - Teaching French in Public School <i>Guillemard, Claude H</i> A Community-Based Learning (CBL) language course for upperclass students that: 1) establishes a mutually beneficial relationship between JHU students, a neighboring Elementary School, and their common community; 2) combines academic components (linguistic, pedagogical and social) with the experiential work with the community partner as a way to reinforce learning. Students participate in weekly meetings in French on campus to prepare for their classes and teach twice a week to 2nd, 3rd, or 4th graders at the Elementary school. Prerequisites : Completion of one year of Advanced Writing and Speaking 210.301-302 or equivalent webpage score	3.00	10	M 3:00-4:15PM; TTh 1:00-2:45PM
AS.210.411	01	H	W	Translation for the Professions <i>Staff</i> Prereqs: 210.313, 210.314, or 210.315 Students will learn the basics of translation theory and be presented with the tools needed (specialized dictionaries, web resources, etc) for the translation of literature, business, medical, legal, technological, political, and journalistic texts from Spanish to English and English to Spanish. May not be taken satisfactory/unsatisfactory. No new enrollments for this course permitted after Monday, September 6th. Course Coordinator: Maria Del Rosario Ramos	3.00	12	TTh 12:00-1:15PM
AS.210.412	01	H	W	Community Based Learning - Spanish Language Practicum <i>Sanchez, Loreto</i> Prereq: 210.411 Spanish Language Practicum involves a specially designed project related to student's minor concentration. Provides an opportunity to use Spanish language in real world contexts. May be related to current employment context or developed in agencies or organizations that complement student's research and experimental background while contributing to the improvement of language proficiency. May not be taken satisfactory/unsatisfactory	3.00	12	W 1:30-2:30PM

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AS.210.413	01	H	W	Curso de Perfeccionamiento <i>Sanchez, Loreto</i> Prereq: 210.311 and 210.312 plus one of the following: 210.313, 210.314 or 210.315; or appropriate Webcape score This course is designed for students who, having attained an advanced level of proficiency, wish to master Spanish grammar as well as oral and written expression. The course seeks to acquaint the students with a wider range of idiomatic expression and usages than they might have previously encountered, and to help them achieve the ACTFL Advanced - Mid Level. The course helps prepare students for the DELE intermediate level offered by Instituto Cervantes. May not be taken Satisfactory/Unsatisfactory May not be taken Satisfactory/Unsatisfactory. Prereq: 210.311 and 210.312 plus one of the following: 210.313, 210.314 or 210.315; or appropriate S-Cape score	3.00	12	MW 12:00-1:15PM
AS.210.417	01	H	W	Eloquent French <i>Cook-Gailloud, Kristin</i> This highly interactive, writing intensive course places emphasis on : 1) providing students with linguistic tools that will help them reach a high level of written proficiency (advanced lexical, stylistic and idiomatic expressions, linking words used to develop and enrich complex sentences, stylistic and grammatical differences between French and English) 2) enhancing students' analytical skills by introducing them to the French method of Explication de textes 3) teaching students to develop an academic style of writing by studying the different components of the dissertation française (introduction, problématique, argumentation, conclusion, utilisation de sources) 4) teaching students to develop their own style of writing. To that effect, we will study excerpts of French literary texts that deal with themes likely to enhance their own creative writing (lieux imaginaires, mémoire et autobiographie, création d'un personnage de roman, for example) THIS COURSE CAN COUNT AS A 211 (CULTURE) COURSE ONLY FOR THE STUDENTS WHO ALREADY HAVE DECLARED THEIR FRENCH MAJOR AND MINORS BEFORE FALL 2010.	3.00	15	MWF 10:00-10:50AM
AS.210.417	02	H	W	Eloquent French	3.00	12	MWF 11:00AM-11:50PM
AS.210.451	01		W	Corso di Perfezionamento <i>Zannirato, Alessandro</i>	0.00 - 3.00	6	MWF 9:00-9:50AM

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				Prerequisites: 210.352 with a grade of B+ or higher, or appropriate placement exam score and interview with Language Program Director. This task-based course is designed to prepare students to acquire Effective Operational Proficiency in Italian, (C1 level of the Common European Framework). By the end of the course, successful students will be able to: 1) understand a wide range of demanding, longer texts, and recognize implicit meaning; 2) produce clear, well-constructed, detailed texts on complex subjects; 3) express themselves fluently and spontaneously without much obvious searching for expressions; 4) use language flexibly and effectively for social, academic, and professional purposes. Extensive independent work required. Course adopts a continuous assessment system (no mid-term and no final), and is conducted entirely in Italian. No S/U option			
AS.211.265	01	H		Panorama of German Thought <i>Egginton, William</i> Taught in English. German thought is a broad intellectual tradition that encompasses works in an astonishing number of fields including philosophy, aesthetics, sociology, epistemology, psychology, anthropology, history, religious studies, and cultural analysis. The most prominent representatives of this tradition include Luther, Leibniz, Kant, Humboldt, Hegel, Nietzsche, Marx, Warburg, Freud, Benjamin, Kracauer, Weber, Simmel, Cassirer, Auerbach, Adorno, Arendt, Heidegger, and Luhmann. Indeed current approaches to understanding cultural, historical, and social phenomena as well as literary and artistic forms would not have been possible without the German intellectual tradition which, beginning with the Enlightenment, emphasized the role of the subject in constituting objects of knowledge and experience. This survey course will highlight important topics in German Thought, which may include the subject, consciousness and unconsciousness, Bildung and the idea of the university, the sublime and the uncanny, irony, hermeneutics and translation, the desire for knowledge, tragedy and repetition, civilization, symbolic forms and medial reproduction, memory, and authority in a historical scope.	3.00	12	W 1:30-3:50PM
AS.211.340	01	H		Topics in French Cinema: Amour, Mariage, Sexualite <i>Roos, Suzanne</i> This course will explore different topics in French cinema. This semester the course will focus on love, marriage, and sexuality in French films. Strong focus on discussion and analyses of film sequences in class and on oral presentations. Additional assignments will involve vocabulary and grammar study. Requirements for this course include completion of Conversation and Composition, or equivalent score on the Webcape placement test.	3.00	12	MW 1:30-2:45PM
AS.211.390	01	H		Modern Spanish Culture <i>Staff</i>	3.00	17	TTh 4:30-5:45PM

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				Pre-requisites: Advanced Spanish I 210.311 or appropriate Webcape score. This course will explore the fundamental aspects of Spanish culture from the nineteenth to the twenty-first centuries. The course will offer a general survey of the history of Spain, and will discuss texts, movies, songs, pictures, and paintings, in relation to their social, political, and cultural contexts. This course will be of particular interest for students planning in spending a semester abroad in Spain—specially for those students going to the JHU Fall Semester in Madrid, at Carlos III University. Taught in Spanish.			
AS.211.401	01	H		La France Contemporaine I <i>Staff</i>	3.00	15	MWF 10:00-10:50AM
				Students will explore contemporary French society and culture through a wide variety of media: fiction and non-fiction readings (graphic novels, news periodicals, popular magazines), films, music, art, websites and podcasts. A diverse range of hands-on activities in addition to guided readings will help students develop cultural awareness as we discuss topics such as education, politics, humor, sports, cuisine, immigration, slang, and national identity, as well as the historical factors that have influenced these facets of French and francophone culture. Prerequisites: 210.301-302 or 210.301 or permission of instructor. Course coordinator: April Wuensch			
AS.211.401	02	H		La France Contemporaine I	3.00	15	TTh 10:30-11:45AM
AS.211.401	03	H		La France Contemporaine I	3.00	15	TTh 1:30-2:45PM
AS.211.412	01	H		Temps et recit dans le cinema francais <i>Schilling, Derek</i>	3.00	12	TTh 10:30-11:45AM
				Prerequisites: 210.301 and 210.302 In what ways does the narrative cinema condense, expand, fracture, reverse, or otherwise complicate our perception of time? What formal and stylistic means allow filmmakers to manipulate spectators' desire for narrative coherence and closure? Based on a range of films drawn from the silent era, the classic cinema of the 1930s to 1950s (costume dramas, literary adaptations, thrillers), and the freely inspired works of the French New Wave and its inheritors, this course will provide students with the critical concepts and vocabulary needed to speak in French about film as an aesthetic object. Course in French.			
AS.211.426	01	H		Paris 1900: the Great World Exhibition and the Beginning of Modernism <i>Cook-Gailloud, Kristin</i>	3.00	15	MWF 12:00-12:50PM

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				This course proposes to examine the momentous world exhibition organized in Paris in the year 1900 along with the new technologies and concepts it introduced into the modern world: the first subway line in Paris, talking films on giant screens, escalators, moving walkways, the first large-scale exhibit of the rising Art nouveau, the first display of Picasso's painting on French territory, and even a presentation on the idea of « television » at the "Palais de l'électricité". Our discussions will include the social, political, cultural and artistic events that led to this pivotal moment which constituted an emblematic stepping stone between the old world and the new			
AS.212.327	01	H	W	Mise et remise en scene: Performing in the 18th Century <i>Sabee, Olivia Maj</i> An introduction to texts and performance practices of the eighteenth century French theater, and an exploration of challenges and creative approaches to its restaging today. Course has a performance requirement.	3.00	20	TTh 12:00-1:15PM
AS.212.333	01	H	W	Introduction à la littérature française <i>Staff</i> Readings and discussion of texts of various genres from the Middle Ages to the 20th century. The two semesters may be taken in either order. This sequence is a pre-requisite to all further literature courses. Students may co-register with an upper-level course during their second semester. Prerequisites: both semesters of 210.301-302 or at least one semester of 210.301-302 with a grade of A and written permission of the instructor. Note: 210.301-302 are prerequisites for all undergraduate courses with higher numbers.	3.00	20	MW 4:00-5:15PM
AS.212.333	02	H	W	Introduction à la littérature française	3.00	20	TTh 12:00-1:15PM
AS.212.412	01	H		Temps et recit dans le cinema francais <i>Schilling, Derek</i> Prerequisites: 210.301 and 210.302 In what ways does the narrative cinema condense, expand, fracture, reverse, or otherwise complicate our perception of time? What formal and stylistic means allow filmmakers to manipulate spectators' desire for narrative coherence and closure? Based on a range of films drawn from the silent era, the classic cinema of the 1930s to 1950s (costume dramas, literary adaptations, thrillers), and the freely inspired works of the French New Wave and its inheritors, this course will provide students with the critical concepts and vocabulary needed to speak in French about film as an aesthetic object. Course in French.	3.00	18	TTh 10:30-11:45AM
AS.212.429	01	H		Thesis Prep <i>Schilling, Derek</i>	1.00	18	TBA

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				<p>This course will meet three times during the Fall semester to enable all French majors to prepare their thesis subject, thesis bibliography and abstract prior to the writing of the Senior Thesis (AS 212.430) in the Spring semester of their senior year. This course is required of all French majors and must be taken during the Fall semester of their senior year.</p> <p>Prerequisites: 212.333-334 and either prior enrollment or concurrent enrollment in AS.210.417 Eloquent French</p> <p>Schedule TBA upon consultation with the class list, as there are only three group meetings. The rest of the meetings are in individual appointments with the DUS or another chosen French professor.</p>			
AS.212.430	01	H	W	<p>Senior Seminar <i>Staff</i></p> <p>An in-depth and closely supervised initiation to research and thinking, oral and written expression, which leads to the composition of a senior thesis in French.</p>	3.00	30	TBA
AS.212.481	01	H	W	<p>The 18th-Century French Novel <i>Anderson, Wilda</i></p> <p>Prerequisite: 212.333 and 212.334 or 212.333 and permission of the instructor.</p> <p>Key novels will be studied from a variety of approaches. Authors to include Marivaux, Montesquieu, Prévost, Diderot, Crébillon, Rousseau, and Voltaire.</p>	3.00	20	T 1:30-3:45PM
AS.213.265	01	H		<p>Panorama of German Thought <i>Eginton, William</i></p> <p>Taught in English. German thought is a broad intellectual tradition that encompasses works in an astonishing number of fields including philosophy, aesthetics, sociology, epistemology, psychology, anthropology, history, religious studies, and cultural analysis. The most prominent representatives of this tradition include Luther, Leibniz, Kant, Humboldt, Hegel, Nietzsche, Marx, Warburg, Freud, Benjamin, Kracauer, Weber, Simmel, Cassirer, Auerbach, Adorno, Arendt, Heidegger, and Luhmann. Indeed current approaches to understanding cultural, historical, and social phenomena as well as literary and artistic forms would not have been possible without the German intellectual tradition which, beginning with the Enlightenment, emphasized the role of the subject in constituting objects of knowledge and experience. This survey course will highlight important topics in German Thought, which may include the subject, consciousness and unconsciousness, Bildung and the idea of the university, the sublime and the uncanny, irony, hermeneutics and translation, the desire for knowledge, tragedy and repetition, civilization, symbolic forms and medial reproduction, memory, and authority in a historical scope.</p>	3.00	8	W 1:30-3:45PM
AS.213.312	01	H		<p>Contemporary German Literature (1970 to the present) <i>Krauss, Andrea B</i></p>	3.00	15	MW 1:30-2:45PM

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				Prerequisite: 210.362. Taught in German. The seminar examines the way cultural and historical topics are presented in contemporary German literature. The selected texts originate in different national contexts (Swiss, Austrian, German, German-Turkish, German-Japanese) and deal with questions concerning the representation of national, cultural, and individual identity. We will explore how the texts (de)construct these identities through narrative structures and will contextualize these structures with respect to recent theories of (trans)cultural identities. Authors include: Eugen Gomringer, Yoko Tawada, Terézia Mora, Thomas Hürlimann, Martin Suter, Christoph Schlingensief, Max Frisch, Günter Grass, Thomas Bernhard, Maxim Biller, Thomas Meinecke.			
AS.213.331	01	H		Detective Fiction in its Nascence <i>Tobias, Rochelle</i>	3.00	15	TTh 10:30-11:45AM
				Although Edgar Allen Poe is often called the father of detective fiction, this assumption is not entirely correct. Already sixty years before Poe published his "Murders in the Rue Morgue," Schiller wrote the novella "Der Verbrecher aus verlorener Ehre" which was decisive for the development of the genre in Germany. Schiller's novella carried the subtitle, "Eine wahre Geschichte," which underscored the tension between "true" events and "probable" circumstances which is characteristic of detective fiction in general. In this course we will examine the competing notions of truth (Wahrheit) and probability (Wahrscheinlichkeit) at play in German detective fiction from the eighteenth to nineteenth century. We will explore why the romantics emphasized truth as a defining feature of literature and how the realists replaced this notion with verisimilitude. Authors to include: Schiller, Kleist, Tieck, Hoffmann, Droste-Hülshoff, Fontane, Storm, Paul Heyse, Richard Alewyn. Reading and discussion in German.			
AS.213.336	01	H		Dancing About Architecture: Jewish Humor and the Construction of Cultural Discourse <i>Caplan, Marc</i>	3.00	50	MW 12:00-1:15PM

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				Are all Jews funny, or only the ones from New York? This course will be an advanced-undergraduate examination of literary, theatrical, cinematic, and televised representations of Jewish culture focusing on the construction of cultural discourse through comedy. Taking as a point of departure Sigmund Freud's <i>Jokes and Their Relation to the Unconscious</i> , we will consider the joke as a mode of narration and cultural coding with specific resonances for the Jewish encounter with modernity. Among the topics to be addressed in this course will be the origins of modern Jewish humor in traditional modes of storytelling and study; the problems of anxiety and otherness articulated and neutralized through humor; the significance of Jews in creating popular culture through the mass media (particularly though not exclusively in the United States) as well as the role of these mediums in transmitting and translating Jewish references to the general culture; the status of the Yiddish language as a vehicle for satire and a vehicle of resistance between tradition and modernity; the uses and abuses of Jewish stereotypes and the relationship of Jewish humor to anti-Semitism; the connections between Jewish humor and other modes of minority discourse; and the question of translation of Jewish humor both from Yiddish into other languages and from the Jewish "in-group" to a "post-ethnic" audience. Authors and performers to be examined will include Avrom Goldfaden, Sholem Aleichem, Franz Kafka, Dzigan and Szumacher, Lenny Bruce, the Marx Brothers, Mel Brooks, Phillip Roth, Woody Allen, Larry David, Sarah Silverman, and the Coen Brothers. All readings and discussions conducted in English.			
AS.214.246	01	H	W	The Short Story in Italy Across the Centuries <i>Forni, Pier Massimo</i>	3.00	15	M 1:30-3:45PM
				This course is a survey of the short story in Italy from the Middle Ages to today. Among the narrators whose work students will become acquainted with are: Giovanni Boccaccio, Alberto Moravia, Giorgio Bassani, Mario Soldati, Dino Buzzati, Giovanni Arpino, and Carlo Emilio Gadda.			
AS.214.246	02	H	W	The Short Story in Italy Across the Centuries	4.00	15	M 1:30-3:45PM
AS.214.361	01	H		Rome as Told by its Narrators: A Journey through History, Literature, Arts and Film <i>Katinis, Teodoro</i>	3.00	10	TTh 12:00-1:15PM
				This course offers an intellectual and aesthetic experience of Rome through time. We will delve into its complex history as well as its tormented and vivacious present. Dean's Teaching Fellowship			
AS.214.361	02	H		Rome as Told by its Narrators: A Journey through History, Literature, Arts and Film	4.00	5	TTh 12:00-1:15PM
AS.214.369	01	H		Food and Culture in Italy <i>Coleman, James</i>	3.00	15	TTh 1:30-2:45PM

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				Throughout Italy's history, food traditions have been central to the formation of Italian identities, both national and regional. In this course we will study Italy's food traditions and explore the ways in which food has become a major theme of Italian literature, film, and music, from the Renaissance to the present day. The class will be conducted in Italian. Students must have completed Intermediate Italian II (210.252) or equivalent.			
AS.215.231	01	H		Introduction to Literature in Spanish <i>Staff</i>	3.00	17	TTh 3:00-4:15PM
				The main objective of this course is to examine and discuss specific authors and topics in literature in Spanish from the Middle Ages to the 20th century. The course is designed to cover a selection of Hispanic texts from Spain and Latin America. Literary genres to be studied will include narratives, poetry and drama. The bulk of each class session will be dedicated to the discussion of the assigned readings. This course is taught in Spanish. This course is required for the major in Spanish. Course coordinator: Eduardo Gonzalez			
AS.215.231	02	H		Introduction to Literature in Spanish	3.00	17	MW 3:00-4:15PM
AS.215.337	01	H		Teatro Espanol del Siglo del Oro <i>Sieber, Harry</i>	3.00	12	T 4:00-6:30PM
				Undergraduate Seminar. Close reading of various Spanish authors-- among them Lope de Vega, Calderon de la Barca, Moreto, Zorilla. Students should have taken courses beyond intermediate level or advanced Spanish. This class will be conducted primarily in Spanish as a seminar and will require active participation and discussion. Papers will be written in Spanish.			
AS.215.451	01	H		El Cine de Pedro Almodovar <i>Gonzalez, Eduardo</i>	3.00	25	M 1:30-3:45PM
				El arte cinematográfico del gran cineasta español será estudiado a través de su obra, vista en partes selectas, obras enteras y dentro del marco escénico provisto por otras películas del cine español. Prerequisite Advance Spanish or demonstrated proficiency in the language			
AS.215.491	01	H		Muslim, Jewish & Christian Literatures of Medieval Spain <i>Altschul, Nadia</i>	3.00	25	Th 3:00-5:15PM
				Desde el 711 hasta el 1609 de la era cristiana, la Península Ibérica fue una sociedad multi-lingüística con zonas y ciudades pobladas y/o administradas por miembros de las tres religiones abrahámicas monoteístas. Este curso presenta un panorama de las literaturas hispano-musulmanas, hispano-judías e hispano-cristianas haciendo especial hincapié en el contexto histórico de la península. Los textos en árabe y hebreo serán leídos en traducción inglesa o castellana, dependiendo de su accesibilidad. Taught in Spanish			
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i>	3.00	15	MW 12:00-1:15PM

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				Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Shakespeare, Douglass, and Woolf.			
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	MW 12:00-1:15PM
AS.360.133	03	H	W	Great Books at Hopkins <i>Strowick, Elisabeth</i>	3.00	15	MW 12:00-1:15PM

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AS.100.102	01	HS	W	The Medieval World <i>Spiegel, Gabrielle M</i> This course explores selected topics in the political, economic, social and intellectual history of Western Europe in the period between the fall of the Roman Empire and the 13th century.	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM
AS.100.102	02	HS	W	The Medieval World	3.00	20	F 10:00-10:50AM; MW 10:00-10:50AM
AS.100.102	03	HS	W	The Medieval World	3.00	20	F 10:00-10:50AM; MW 10:00-10:50AM
AS.100.102	04	HS	W	The Medieval World	3.00	20	F 9:00-9:50AM; MW 10:00-10:50AM
AS.100.102	05	HS	W	The Medieval World	3.00	20	F 11:00-11:50AM; MW 10:00-10:50AM
AS.100.102	06	HS	W	The Medieval World	3.00	20	F 11:00-11:50AM; MW 10:00-10:50AM
AS.100.113	01	HS		Making America: Race, Radicalism, and Reform <i>Walters, Ronald</i> Beginning with the end of Reconstruction and continuing through the present day, this course will examine the complicated ways in which Americans attempted to come to terms with racial, ethnic, cultural, and other forms of diversity.	3.00	20	MW 12:00-12:50PM; F 11:00-11:50AM
AS.100.113	02	HS		Making America: Race, Radicalism, and Reform	3.00	20	MW 12:00-12:50PM; F 11:00-11:50AM
AS.100.113	03	HS		Making America: Race, Radicalism, and Reform	3.00	20	MW 12:00-12:50PM; F 12:00-12:50PM
AS.100.113	04	HS		Making America: Race, Radicalism, and Reform	3.00	20	MW 12:00-12:50PM; F 12:00-12:50PM
AS.100.129	01	HS		Introduction to Modern Jewish History <i>Moss, Kenneth</i> An examination of the history of Jews over the past three hundred years. Explores the dramatic encounter at the close of the 18th century between rapidly changing European societies caught up in intellectual, political, and economic revolution and a 2000-year old traditional civilization living in their midst; the kaleidoscopic array of Jewish political, religious, cultural and social responses to this encounter; the new forms of Jewish communal and individual life and consciousness which emerged in the course of the 19th and 20th centuries; the extension of this new modern framework to the Jews of the Middle East in the context of European imperialism and colonialism; the key roles played by the Jews as agents and symbols of political, economic, and cultural modernity; the phenomenon of anti-Semitism and whether it is a pathology or integral part of modern European civilization; the extreme shifts in Jewish life from the mid-20th century in light of the Holocaust, the creation of the state of Israel, and integration into American society.	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.129	02	HS		Introduction to Modern Jewish History	3.00	20	MW 11:00-11:50AM; F 12:00-12:50PM
AS.100.168	01	HS	W	Freshman Seminar: US-USSR Cold War <i>Brooks, Jeffrey P</i> Freshmen only. Reading, discussions, short papers on Cold War with emphasis on US and USSR.	3.00	20	TTh 1:30-2:45PM
AS.100.191	01	HS		Freshman Seminar: Family History in the U.S. and Europe <i>Ditz, Toby L</i>	3.00	20	Th 1:30-3:50PM

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				Freshmen only Discussion style. Introduces major themes since 1700: family sentiment and authority relations; gender and sexuality; family and work; dynamics of family and race. Readings emphasize interdisciplinary perspectives and interpretation of primary sources			
AS.100.193	01	HS	W	Undergrad Sem in History <i>Rustow, Marina</i>	3.00	25	M 1:30-3:50PM
				Required for all history majors and normally taken during the sophomore year. Deals with the elements of historical writing and thinking. Must be taken in sequence.			
AS.100.193	02	HS	W	Undergrad Sem in History <i>Paquette, Gabriel</i>	3.00	20	M 1:30-3:50PM
AS.100.202	01	HS	W	Conflict and Co-Existence: The Early Modern Mediterranean <i>Rowe, Erin</i>	3.00	35	TTh 9:00-10:15AM
				This course explores the dynamic and fluid world of the early modern Mediterranean (1453-1650), where Christians, Jews, and Muslims met, fought, traded with, and enslaved each other.			
AS.100.204	01	HS		The History of Black Americans, Part I - 1619-1917 <i>Connolly, Nathan D</i>	3.00	20	MW 10:00-10:50AM; F 9:00-9:50AM
				This survey course addresses the making and historical experiences of African Americans from the early seventeenth century to the conclusion of World War I.			
AS.100.204	02	HS		The History of Black Americans, Part I - 1619-1917	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM
AS.100.241	01	HS	W	American Revolution <i>Morgan, Philip</i>	3.00	20	MWF 11:00-11:50AM
				The aim of this course is to explore the causes, character, and consequences of the American Revolution, a seminal event in world history.			
AS.100.299	01	HS	W	Africa and the Humanitarians <i>Hall, Bruce</i>	3.00	20	TTh 10:30-11:45AM
				This course is a critical history of humanitarian interventions in Africa beginning with anti-slavery projects in the late 18th century and ending with the Millennium Development Goals established by the United Nations in the year 2000.			
AS.100.307	01	HS	W	Latin American Independence <i>Paquette, Gabriel</i>	3.00	14	T 1:30-4:00PM
				This seminar examines the breakdown of the Spanish and Portuguese empires and the emergence of new states in Latin America in the nineteenth century. Topics include: war, revolution, slavery, liberalism, and monarchism.			
AS.100.322	01	HS		Cross-cultural encounters in Spanish America 15th - 18th Centuries <i>Garcia Montufar, Guillermo</i>	3.00	20	TTh 3:00-4:15PM
				This course is designed to introduce students to the complex relationships that were established between the different cultures that inhabited colonial Latin America, from 1492 to the 18th century.			

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AS.100.331	01	HS	W	Buying Power: American Consumer Society 1750-1960 <i>Gamble, Robert John</i> This course examines the causes and consequences of America's transformation into a mass consumer society, including the growth of advertising, the gendering of shopping, and the globalization of American products and tastes.	3.00	15	TTh 3:00-4:15PM
AS.100.333	01	HS	W	Global Public Health Since World War II <i>Galambos, Louis P</i> Globalization has dramatically reshaped the world economy, providing great advantages to some but leaving poor nations to struggle with hunger, disease and death on a daily basis. This course explores the impact of globalization on public health in the developed and the developing nations since 1945. Cross-listed with Public Health Studies	3.00	15	MW 11:00-11:50AM; F 9:00-9:50AM
AS.100.333	02	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 8:00-8:50AM
AS.100.333	03	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.333	04	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.333	05	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 9:00-9:50AM
AS.100.333	06	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM
AS.100.333	07	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 8:00-8:50AM
AS.100.333	08	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM
AS.100.372	01	HS		The Victorians <i>Walkowitz, Judith</i> This course focuses on the politics of everyday life, consumption, intimate relations, and concepts of the self in Victorian Britain (1837-1901). Particular attention will be devoted to Victorian visual culture, including exhibitions, built environment, decorative arts and leisure culture. Other themes include popular nationalism, class cultures, feminism and body politics, Empire and racial thought. Cross-listed with WGS and Program in Museums and Society	3.00	20	W 1:30-3:50PM
AS.100.373	01		W	Sex and Society in Early Modern Europe <i>Rowe, Erin</i> This course will examine how early modern views on the body, gender, and sexuality shaped beliefs about the abilities and rights of women and men.	3.00	30	TTh 12:00-1:15PM
AS.100.402	01	HS	W	Jewish Modernity: Jewish Secularization, Assimilation, Nationalization, and Religious Revival from the 17th Century to the Present <i>Moss, Kenneth</i> Contemporary accounts and theories of the Jewish experience of modernity from the 17th century to the contemporary state of Israel; secularity and religion; emancipation, citizenship, and empire; capitalism and socialism; assimilation and nationalism; statehood and diaspora.	3.00	15	T 1:30-4:00PM

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AS.100.405	01	HS	W	Europe Socialist Thought <i>Jelavich, Peter</i> Examination of socialist, social-democratic, communist, and anarchist theorists, including Proudhon, Marx, Engels, Bakunin, Bernstein, Lenin, Luxemburg, and Sorel.	3.00	20	W 1:30-3:50PM
AS.100.409	01	HS	W	Facism: History and Interpretation <i>Bisno, Adam Samuel</i> This course investigates the history and historiography of fascism, with emphases on definitions of fascism and on fascist political culture in a comparative framework. AS.100.104 recommended but not required.	3.00	15	TTh 9:00-10:15AM
AS.100.413	01		W	London 1580-1830: The History of Britain's capital city <i>Marshall, John W</i> Seminar-style class analyzing the social, cultural, gender, religious, economic, and political history of London from Shakespeare's time through revolutions, plague, fire, and commercial, colonial, and industrial expansion.	3.00	18	TTh 10:30-11:45AM
AS.100.439	01	HS	W	Cuban Revolution and the Contemporary Caribbean <i>Knight, Franklin</i>	3.00	18	TTh 9:00-10:15AM
AS.100.473	01	HS	W	Indian Ocean:Economy, Society, Diaspora <i>Larson, Pier M</i> A seminar level survey of the history of the Indian Ocean with an emphasis on human diaspora.	3.00	15	M 1:30-3:50PM
AS.100.479	01	HS		Problems in Chinese Urban History <i>Rowe, William T</i> Reading and discussion of works in Western languages on the role of cities in Chinese society, from the Tang dynasty (628-906 A.D.) to the present.	3.00	20	Th 1:30-3:50PM
AS.300.330	01	HS		Trauma in Theory, Film, and Fiction <i>Leys, Ruth</i> An examination of the representation of trauma in literary theory, psychiatry, survivor literature, films, novels, and comics. Works by Sebald ("The Emigrants"), Lanzmann ("Shoah"), Spiegelman ("In the Shadow of No Towers"), McCarthy ("Remainder"), and others.	3.00	15	T 1:30-3:50PM
AS.310.221	01	HS		Introduction to Eastern Religious Traditions <i>Valentine, Jay Holt</i> This course serves as an introduction to Hinduism, Jainism, Buddhism, Sikhism, Confucianism, and Daoism. Successful completion of this course will provide students with a critical understanding of these six traditions.	3.00	30	TTh 4:30-5:45PM
AS.360.147	01	HS	W	Adam Smith and Karl Marx <i>Jelavich, Peter</i> Freshmen Seminar. This freshmen seminar examines the ideas of Smith, the greatest proponent of the free market, and Marx, his most radical critic. Freshmen only.	3.00	20	W 1:30-4:00PM
AS.362.104	01	H	W	Introduction to the African Diaspora <i>Romero, Patricia</i>	3.00	15	Th 2:00-4:30PM

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AS.362.340	01	S	W	<p>This course will begin in Africa before Atlantic slave trade, move to cover that trade into Brazil, the Caribbean and South Carolina. Comparisons of slave systems with Africa, Brazil, some parts of the Caribbean and Carolina (later South Carolina).</p> <p>Power and Racism <i>Hayes, Floyd, III.</i></p>	3.00	15	T 1:30-3:50PM
AS.389.201	01	HS		<p>This course investigates the impact of white supremacy and anti-black racism, as a global system of power, on the political development of the United States of America.</p> <p>Introduction to the Museum: Past and Present <i>Rodini, Elizabeth</i></p> <p>This course surveys museums, from their origins to their most contemporary forms, in the context of broader historical, intellectual, and cultural trends. Anthropology, art, history, and science museums are considered. Cross-listed with Anthropology, History, History of Art.</p>	3.00	24	TTh 1:30-2:45PM
AS.389.261	01	H		<p>Curating Homewood: Trades and Training in Early Baltimore <i>Arthur, Catherine Rogers</i></p> <p>Students explore early American life related to the region and the Carroll family of Homewood. Primary research and object study culminate in student-curated thematic exhibition. Optional intersession practicum experience is also possible. Cross-listed with History. M&S practicum course.</p>	3.00	12	W 1:30-3:50PM

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History of Art

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.010.101	01	H	W	Intro to History Eur Art <i>Pereda, Felipe</i> A survey of painting, sculpture, and architecture from Egyptian, Greek, Roman, and medieval culture.	4.00	25	F 10:00-10:50AM; MW 12:00-1:15PM
AS.010.101	02	H	W	Intro to History Eur Art	4.00	25	F 11:00-11:50AM; MW 12:00-1:15PM
AS.010.101	03	H	W	Intro to History Eur Art	4.00	25	F 12:00-12:50PM; MW 12:00-1:15PM
AS.010.101	04	H	W	Intro to History Eur Art	4.00	25	F 12:00-12:50PM; MW 12:00-1:15PM
AS.010.105	01	H		Art of the Ancient Americas <i>Deleonardis, Lisa</i> Surveys the art of Olmec, West Mexico, Teotihuacan, Maya, and Aztec.	3.00	25	TTh 10:30-11:45AM
AS.010.151	01	H		Art and Architecture of Early Christian and Medieval North Africa <i>Dennis, Nathan Stuart</i> Survey of Early Christian and medieval art and architecture in North Africa, with an emphasis on indigenous developments and cultural exchange in the Mediterranean world, 4th to 13th century.	3.00	25	TTh 4:30-5:45PM
AS.010.162	01	H		Junk! New (Old) Materials in Modern Art <i>Watson, Jennifer Lynn</i> This course explores the recurring strategy of using junk materials for artistic creation in the twentieth century, in both Europe and the United States, and considers the different ways this strategy has been employed by artists and experienced by viewers at different historical moments.	3.00	15	TTh 3:00-4:15PM
AS.010.236	01	H		Palaces, Temples and Tombs in Mesopotamia <i>Staff</i> Mesopotamia, the "land between the rivers," is considered the cradle of civilization. Its earliest urban centers appeared by 3500 BCE in the region of modern-day Iraq, Iran, and Syria. Along with urbanism came the emergence of temples and palaces as large-scale elite institutions (replete with written records). Their arts manifest some of the earliest complex representations. This course explores the art and architecture within the social, political and cultural context of ancient Sumer, Babylonia and Assyria. It provides an integrated picture of the arts of Mesopotamia from 3500 to 330 BCE with an emphasis on the development of visual narrative and the use of art in the expression of authority and legitimacy.	3.00	25	MW 3:00-4:15PM
AS.010.347	01	H		Inventing Antiquity in the Early Renaissance <i>Campbell, Stephen</i> A close look at how the ancient Greek, Roman and Jewish worlds were imagined and reconstructed by early Renaissance scholars, poets, warlords and artists.	3.00	30	MW 4:30-5:45PM
AS.010.360	01	H		From Missionary Images to Image Explosion: An Introduction to Medieval Art <i>Staff</i>	3.00	25	TTh 10:30-11:45AM

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				This course explores the challenging world of medieval art. Beginning with the fourth-century and ending with the fifteenth, we will trace how images and art-making took on new roles—and re-invented old ones—over the course of the Middle Ages. Examining architecture, sculpture, wall painting, manuscript painting, stained glass, metalwork, and textiles in their historical contexts, questioning why medieval objects look the way they do and how they were beheld and used by medieval people. Readings will include medieval sources (in translation) and exemplary modern scholarship.			
AS.010.389	01	H	W	The Stone and the Thread <i>Deleonardis, Lisa</i>	3.00	25	TTh 3:00-4:15PM
				This course examines the built environment of the Inka and considers architecture in its social, historical, and cultural contexts. Shared forms and ideas implicit in the fiber arts offer comparative points for analysis and discussion.			
AS.010.415	01	H		Modernism and Postmodernism in Architecture <i>Perschler, Martin</i>	3.00	5	M 7:00-9:45PM
				“Form forever follows function,” “the house is a machine for living in,” “less is more,” “less is a bore”—when and where on earth did these architectural catch phrases originate, and what did they mean to the people who coined them and attempted to express them in their designs for buildings? In this course we will study the major architectural theories and design trends of the late 19th and 20th centuries in Europe and the United States—a turbulent and complicated period in the history of architecture commonly known as Modernism and Postmodernism. Topics and personalities addressed in this course will include Expressionism, the Bauhaus, Le Corbusier, urbanism, functionalism, and Frank Lloyd Wright.			
AS.010.415	02	H		Modernism and Postmodernism in Architecture	3.00	10	M 7:00-9:45PM
AS.010.415	03	H		Modernism and Postmodernism in Architecture	3.00	10	M 7:00-9:45PM
AS.010.422	01	H		Early Modern Dutch and Flemish Painting <i>Merback, Mitchell</i>	3.00	20	TTh 12:00-1:15PM
				Explores the major painters and printmakers working in the Netherlands during the sixteenth and early seventeenth centuries: Pieter Brueghel, Jan Gossaert, Pieter Aertsen, Peter Paul Rubens, Jan Steen, Jan Vermeer, and many others.			
AS.010.470	01	H	W	Power and Politics in Assyrian Art <i>Staff</i>	3.00	12	MW 12:00-1:15PM

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History of Art

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Assyria, centered in northern Iraq, created one of the world's first great empires that dominated the ancient Near Eastern world from around 900 to 612 BCE. In concert with imperial expansion came an explosion of artistic production ranging from palace wall reliefs to small-scale luxury objects. This seminar examines the close relationship between the arts and politics in the Assyrian empire. Some themes that will be explored are: historical narrative, text and image, portable luxury arts and gender, politics and religion. The course will engage in close visual analysis of the ancient materials and readings of critical scholarship.			
AS.010.481	01	H		Classics of Art Criticism <i>Fried, Michael</i> Readings by Diderot, Baudelaire, Fry, Greenberg.	3.00	15	T 1:30-4:00PM
AS.040.201	01	H		Digging Up the Gods: The Archaeology of Greek Sanctuaries <i>Shapiro, Alan</i> This course will explore the major sites of Ancient Greece, such as Delphi, Olympia, and the Akropolis of Athens, from temples to dedications, and their role in religion and society. Cross-listed with History of Art.	3.00	50	TTh 10:30-11:45AM
AS.389.201	01	HS		Introduction to the Museum: Past and Present <i>Rodini, Elizabeth</i> This course surveys museums, from their origins to their most contemporary forms, in the context of broader historical, intellectual, and cultural trends. Anthropology, art, history, and science museums are considered. Cross-listed with Anthropology, History, History of Art.	3.00	24	TTh 1:30-2:45PM
AS.389.205	01	H		Examining Archaeological Objects <i>Balachandran, Sanchita</i> This course considers the role of materials in the production, study and interpretation of objects by examining artifacts from the Johns Hopkins Archaeological Museum. Students will consider materials such as ceramics, stone, metal, glass, wood and textiles, and visit artists' studios to gain an understanding of historical manufacturing processes. M&S practicum course. Cross-listed with Archaeology, Near Eastern Studies, Classics, and History of Art. Class meets in the Archaeological Museum (Gilman 150).	3.00	15	M 1:30-3:50PM
AS.389.349	01	H		Art, Museums and the Law <i>Lehmann, Walter</i> The course encourages students to consider how artistic processes and cultural institutions are shaped by legal principles and vice versa. The interplay between art, museums and the law will be explored from historical, cultural and legal perspectives using a variety of source material.	3.00	15	TTh 12:00-1:15PM
AS.389.460	01	H		Inventing the Middle Ages: Museums, Collectors and Art Historians <i>Kingsley, Jennifer Pascale</i>	3.00	12	W 1:30-3:50PM

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History of Art

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
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Investigate the history of the collection, interpretation and display of medieval art by nations, museums and private collectors. Topics range from antiquarian interest to conception of medieval sculpture as "primitive", from the use of medieval objects in nationalistic displays and from early American museums such as the Cloisters in NY to current exhibits such as the Walters. Cross-listed with History of Art.

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History of Science & Technology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.140.113	01	HS	W	Freshmen Seminar: Darwin, Freud, Pavlov: Perspectives on Human Nature <i>Todes, Daniel P</i> Freshmen Only. Exploration of Darwin's, Freud's, and Pavlov's ideas concerning science and human nature, man's place in nature, the human psyche and human society, and the prospects for humanity's future.	3.00	15	W 1:30-4:00PM
AS.140.115	01	HS		Freshmen Seminar: Humans and Artifacts <i>Frumer, Yulia</i> Freshmen Only. The course explores human interaction with "things" - machines, instruments, devices and images. We will learn how to "read" machines, and how to analyze the variety of ways humans use things as tools of thought.	3.00	15	T 1:30-4:00PM
AS.140.301	01	HS	W	History of Science: Antiquity To Renaissance <i>Principe, Lawrence</i> The first part of a three-part survey of the history of science. This course deals with the concepts, practice, and the cultural roles of scientific thought from classical antiquity to the time of Copernicus. Topics include the pre-Socratics, the systems of Plato and Aristotle and their continuing influence, Islamic science, Latin medieval scholasticism and the universities, and Renaissance hermeticism/natural magic. Interactions across science, art, technology, and theology are highlighted.	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.140.301	02	HS	W	History of Science: Antiquity To Renaissance	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.140.305	01	HS	W	Science and Technology in East Asia <i>Frumer, Yulia</i> The course explores the historical and cultural context of scientific and technological developments in China, Japan and Korea, focusing especially on the rise of modern science in the 19th and the 20th century.	3.00	25	MWF 3:00-3:50PM
AS.140.311	01	HS		Ecology, Health, and the Environment <i>Kingsland, Sharon E</i> An interdisciplinary perspective on environmental history, including history of ecological science, urban ecology, human health and sustainability. Course has a historical emphasis but students can investigate current problems. Focus is on the Chesapeake region. Cross-listed with GECS	3.00	12	TTTh 9:00-10:15AM
AS.140.315	01	HS		Spaceflight and Society: Exploring the History of the Final Frontier <i>Launius, Roger</i> This course explores the history of spaceflight, emphasizing its civil component, but also including national security and commercial activities, and the interactions among all components of spaceflight around the world.	3.00	40	W 1:30-3:50PM
AS.140.321	01	HS		Scientific Revolution <i>Portuondo, Maria M</i>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM

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History of Science & Technology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course concerns developments in early modern Europe accepted as the origins of modern science. With a focus on the fundamental change in our understanding of nature, course topics include alchemy, astrology, astronomy, cosmology, humanism, mechanics, natural magic, and physics.			
AS.140.321	02	HS		Scientific Revolution	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM
AS.140.333	01	HS		The Idea of the Artificial Human in History <i>Kargon, Robert H</i>	3.00	20	T 3:00-5:30PM
				Course examines the concept of the artificial human as a mirror of changing world-views from late middle ages through the twentieth century. Readings include Mary Shelley, Wells, Capek, Piercy.			
AS.140.347	01	HS	W	History Of Genetics <i>Comfort, Nathaniel</i>	3.00	20	MWF 9:00-9:50AM
				Intellectual and social history of the gene concept, including Mendelism, eugenics, medical genetics, DNA, genomics, and personalized medicine.			
AS.140.347	02	HS	W	History Of Genetics	3.00	20	MWF 10:00-10:50AM
AS.140.352	01	HS		Who Wants to be a Billionaire?: High Tech & the American University <i>Morris, Susan W</i>	3.00	18	TTh 10:30-11:45AM
				Long before Facebook, faculty and students were creating startups on campus. This course examines college entrepreneurship from its 19th-century origins to today: the potential perils, profits, and promise for entrepreneurs and universities alike.			
AS.140.362	01	HS		The Communications Revolution <i>Morris, Susan W</i>	3.00	35	TTh 1:30-2:45PM
				Investigates the nature and impact of phenomenal changes in transportation and communication since the 19th-century, including iconic developments such as the Panama Canal, Brooklyn Bridge, airplanes, automobiles, television, wireless communication and the internet.			
AS.140.365	01	HS		From Colonial to Global Health: Health, Healing and European Expansion, 1500-1950 <i>Arner, Katherine Elizabeth</i>	3.00	20	TTh 10:30-11:45AM
				This course traces the impact of European expansion on health, medicine and disease control from the Age of Exploration to the emergence of international and global health in the early twentieth century.			
AS.140.411	01	HS		Senior Research Seminar <i>Portuondo, Maria M</i>	2.00	20	TBA
				For majors pursuing independent research.			

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History of Science & Technology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.140.445	01	HS		Mixing It Up: Interdisciplinarity in Science <i>Kingsland, Sharon E</i> Many landmark discoveries in science, such as the discovery of the double helix, were achieved through an interdisciplinary approach. Our course explores how institutions of research and education have advanced science through the promotion of interdisciplinarity. Case studies examine important problems in physical and biological sciences whose solutions required interdisciplinary approaches. Research paper required.	3.00	12	W 1:30-4:00PM

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Humanities Center

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.300.211	01	H		Great Poems of the Americas <i>Galvin, Rachel</i> This course investigates the long poem or post-epic in 20th- and 21st-c. North and Latin America. The epic has been rearticulated in sequences and series, verse novels, lyric cycles, and collage poems: from T.S. Eliot's <i>The Waste Land</i> , the encyclopedic <i>Cantos</i> of Ezra Pound, and the sweeping <i>Canto General</i> of Pablo Neruda to works by Derek Walcott and Gwendolyn Brooks, and fragmented series by Gertrude Stein, Hart Crane, and César Vallejo. We will examine Aimé Césaire's <i>Notebook of a Return to the Native Land</i> , Vicente Huidobro's playful <i>Altazor</i> , and very recent epic poems from Canadian women poets such as Anne Carson, Lisa Robertson, and M. NourbeSe Philip. As we test the term post-epic against these texts, we will consider whether it may be applied equally to the heroic tale and the open field poem. How do poets interpret the idea of "the Americas" as lands and nations in these works, and in what tangled ways do their poetics develop through dialogue across linguistic and geographical distances? To situate the long poem in history, we'll examine developments in poetic form alongside modernization and globalization, and technological and socio-political changes. We will draw on theories of poetry and poetics as well as critical theory taking a comparative, Hemispheric Studies approach to literature.	3.00	15	MW 1:30-2:45PM
AS.300.303	01	H	W	Modern Jewish Thought and Literature <i>Stahl, Neta</i> This course studies a wide range of texts dealing with questions concerning the Jewish experience in the modern world. Relying on a comparative mode, we will analyze the historical, philosophical, ideological, and political aspects of these texts, as well as parallel literary and artistic depictions of similar topics. Crosslisted with Jewish studies.	3.00	15	TTh 12:00-1:15PM
AS.300.330	01	HS		Trauma in Theory, Film, and Fiction <i>Leys, Ruth</i> An examination of the representation of trauma in literary theory, psychiatry, survivor literature, films, novels, and comics. Works by Sebald ("The Emigrants"), Lanzmann ("Shoah"), Spiegelman ("In the Shadow of No Towers"), McCarthy ("Remainder"), and others.	3.00	15	T 1:30-3:50PM
AS.300.366	01	H	W	Russian Avant-Garde Cinema <i>Eakin Moss, Anne</i>	3.00	25	MW 1:30-2:45PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Russian cinema was born out of the intense artistic experimentation of the fin-de-siècle avant-garde and developed in a climate of dramatic political and cultural change in the twenties and thirties. While subject to draconian censorship in the Soviet period, it nonetheless engaged in active dialogue with the film industries of Western Europe and America and had a lasting impact on world cinema. This course examines the extraordinary flourishing of avant-garde cinema in the Soviet Union in the 1920s and 30s including films by Eisenstein, Vertov, Pudovkin and Dovzhenko, their theoretical writings, and their far-reaching influence on film and film theory. All readings in English, films subtitled in English.			
AS.300.369	01	H	W	Laura Talks Back: a seminar on women poets of Renaissance Italy, France, Spain, and England <i>Patton, Elizabeth</i>	3.00	15	TTh 1:30-2:45PM
				In the later Middle Ages and early Renaissance, generations of male poets wrote complex love sonnets to idealized and unattainable mistresses (such as Dante's 'Beatrice' and, especially, Petrarch's 'Laura'). By the 15th and 16th centuries, however, women throughout Europe were writing sonnets in the same mode, and in this seminar we will explore the kinds of strategies used by female poets to position themselves in relation to idealized—but not always unattainable—male lovers. Knowledge of French, Spanish or Italian is welcome but not required; poems will be read in translation.			
AS.300.377	01	H		Cinema and Philosophy <i>Marrati, Paola</i>	3.00	25	Th 1:30-4:00PM
				Why is contemporary philosophy so interested in cinema? Do movies have anything to say about philosophical problems? What are the most productive ways of bringing films and philosophy into conversation?			
AS.300.417	01	H		Modern Jewish Thought and Literature <i>Stahl, Neta</i>	3.00	15	TTh 12:00-1:15PM
				Open to graduate students. This course studies a wide range of texts dealing with questions concerning the Jewish experience in the modern world. Relying on a comparative mode, we will analyze the historical, philosophical, ideological, and political aspects of these texts, as well as parallel literary and artistic depictions of similar topics. Crosslisted with Jewish studies.			
AS.300.419	01	H		Reflective Mirrors in Israeli and Palestinian Cinema <i>Stahl, Neta</i>	3.00	20	TBA
				Open to graduate students. Palestinian and Israeli cinemas have emerged side by side, each depicting its Other as a deceiving mirror of its own self. This course will explore the different images of these Others in both cinemas and study their political, ideological, historical and sociological contexts. Crosslisted with Jewish studies.			
AS.300.421	01	H		Spiritual Exercises: Concepts and Practices <i>de Vries, Hent</i>	3.00	25	T 1:30-4:00PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course will introduce the concepts, practices, and history of spiritual exercises and its modern transformations. Readings include Marcus Aurelius, Philo of Alexandria, St. Augustine, St. Ignatius of Loyola, Henri Bergson, Ludwig Wittgenstein, Stanley Cavell, and Pierre Hadot.			
AS.300.423	01	H		Contemporary Theory: New Materialisms, New Vitalisms, and the Post-Traumatic Subject <i>Leys, Ruth</i> A discussion of: recent versions of materialism and realism, including materialisms informed by neuroscience; vital materialism; the latest developments in trauma and affect theory; and related trends. Texts by Zizek, Malabou, Damasio, Pippin, McDowell, Johnston, Brassier, Churchland, LeDoux, and others.	3.00	15	W 1:30-4:00PM
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i> Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Shakespeare, Douglass, and Woolf.	3.00	15	MW 12:00-1:15PM
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	MW 12:00-1:15PM
AS.360.133	03	H	W	Great Books at Hopkins <i>Strowick, Elisabeth</i>	3.00	15	MW 12:00-1:15PM
AS.371.149	01	H		Visual Reality <i>Bakker, D.S.</i> Prereq: Imagination Freshmen by permission only In art, "Realism" is a simulation of visual reality. But art can also simulate alternative realities, those realities or truths which exist only in daydreams or nightmares. In this class, we will learn to explore and create representations of these additional moments of existence. This will require thinking creatively or "outside the box," a useful skill in any field. Using a variety of media, students are asked to solve problems to which there is no one correct answer.	3.00	12	F 1:30-4:20PM
AS.371.151	01	H		Photoshop/Dig Darkroom <i>Ehrenfeld, Howard</i>	3.00	10	M 10:00AM-12:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Photoshop is not only the digital darkroom for processing images created with digital cameras; it is also a creative application for making original artwork. In this course, students use Photoshop software as a tool to produce images from a fine art perspective, working on projects that demand creative thinking while gaining technical expertise. Students will make archival prints, have regular critiques, and attend lectures on the history of the manipulated image and its place in culture. We will look at art movements which inspire digital artists, including 19th century collage, dada, surrealism, and the zeitgeist of Hollywood films. Students must have a digital camera. Prior knowledge of Photoshop is not required. Attendance at first class is mandatory.			
AS.371.152	01	H		Introduction to Digital Photography <i>Ehrenfeld, Howard</i>	3.00	10	T 10:00AM-12:50PM
				Introduction to Digital Photography Students learn to use their digital cameras through a variety of projects, which will help them develop technical and creative skills. Students explore documentary, landscape and portrait photography. Critiques and slide lectures of historic photographs, which range from postmortem daguerreotypes to postmodern digital imagery, help students develop a personal vision. Students gain camera proficiency with one-on-one instruction in the field. Basics for print adjustment and output will be covered. Attendance at first class is mandatory.			
AS.371.162	01	H		Black & White: Digital Darkroom <i>Berger, Phyllis A</i>	3.00	10	W 10:00AM-12:50PM
				Attendance at 1st class is mandatory. In this digital course, students explore the black-and-white aesthetic. They develop camera skills on numerous field trips including Ladew Topiary Gardens, the Maryland Zoo & Botanical Gardens, and an optional weekend trip to Cape Henlopen State Park in Delaware. Students meet frequently for critiques and discussions based on historic and contemporary imagery. They will learn to use Photoshop for image adjustment. Techniques such as high dynamic range, duotone, panorama and infrared will be covered. Students work on a project of their choice and produce a portfolio of ten prints. Digital SLRs are provided.			
AS.371.162	02	H		Black & White: Digital Darkroom	3.00	10	W 2:00-4:50PM
AS.371.303	01	H		Documentary Photography <i>Berger, Phyllis A</i>	3.00	10	F 2:00-4:50PM
				FIRST CLASS IS MANDATORY. In this course, we will explore different genres of documentary photography, including the fine art document, photojournalism, social documentary photography, the photo essay and photography of propaganda. Students will work on a semester-long photo-documentary project on a subject of their choice. Digital SLRs will be provided.			

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Interdepartmental

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i> Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Shakespeare, Douglass, and Woolf.	3.00	15	MW 12:00-1:15PM
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	MW 12:00-1:15PM
AS.360.133	03	H	W	Great Books at Hopkins <i>Strowick, Elisabeth</i>	3.00	15	MW 12:00-1:15PM
AS.360.147	01	HS	W	Adam Smith and Karl Marx <i>Jelavich, Peter</i> Freshmen Seminar. This freshmen seminar examines the ideas of Smith, the greatest proponent of the free market, and Marx, his most radical critic. Freshmen only.	3.00	20	W 1:30-4:00PM
AS.360.247	01	S	W	Introduction to Social Policy: Baltimore and Beyond <i>Deluca, Stefanie</i> How can we address pressing social problems, such as inner city poverty, inequality in educational attainment among children from different backgrounds, and disparities in access to health care? Social policy refers to the programs, legislation and governmental activities that regulate access to important social, financial and institutional resources needed by members of a society to address these concerns. Social policy also aims to reduce inequality, especially in the areas of education, health, income, housing, neighborhoods, and employment. The study of social policy is interdisciplinary, and this course will introduce students to the basic concepts in economics, political science, and sociology relevant to the study of social problems and the programs designed to remedy them. We will cover issues of national policy importance, as well as issues specifically affecting Baltimore City and the metropolitan region. This course is open to all students, but will be required for the new Social Policy Minor. The course is also recommended for students who are interested in law school, medical school, programs in public health, and graduate school in related social science fields. Cross list with Sociology, Economics and Political Science.	3.00	75	T 12:00-1:15PM; Th 12:00-1:15PM
AS.360.403	01	HS		Introduction to Research Laboratory Safety <i>Kuespert, Daniel</i>	0.50	15	F 8:00-9:00AM

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Interdepartmental

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
<p>***NOTE: Most coursework is on Blackboard and must be completed before the live class meeting. A brief introduction to safety in Johns Hopkins University experimental research laboratories. This course covers laboratory hazards including chemical, biological, radiation (non-ionizing and ionizing), and physical hazards, as well as JHU-specific procedures. This course is intended for undergraduates beginning work in a research laboratory for the first time, as well as other students with no laboratory safety background. Credit may be received for only one of this course, 500.703 Research Lab Safety Review, and 540.490 Chemical and Laboratory Safety. Co-listed with 500.403, 500.703, and 360.703.</p>							
AS.360.403	02	HS		Introduction to Research Laboratory Safety	0.50	15	M 8:00-9:00AM
AS.360.403	03	HS		Introduction to Research Laboratory Safety	0.50	15	Th 8:00-9:00AM
AS.360.403	04	HS		Introduction to Research Laboratory Safety	0.50	50	Th 8:00-9:00AM
AS.360.403	05	HS		Introduction to Research Laboratory Safety	0.50	50	Th 8:00-9:00AM
AS.360.403	06	HS		Introduction to Research Laboratory Safety	0.50	50	Th 8:00-9:00AM
EN.570.428	01	S	W	Problems in Applied Economics <i>Hanke, Steve H</i> Permission Required. This course brings the principles of economic theory to bear upon particular problems in the fields of economics, finance and public policy. Micro, macro and international problems, from both the private and public sectors, are addressed. A heavy emphasis is placed on research and writing. Students learn how to properly conduct substantive economic research, utilizing statistical techniques and lessons from economic history. Findings are presented in the form of either memoranda or working papers. Exceptional work may be suitable for publication through the Johns Hopkins Institute for Applied Economics, Global Health, and the Study of Business Enterprise.	3.00	29	TBA
EN.570.470	01	QS	W	Applied Econ & Finance <i>Hanke, Steve H</i> Prerequisite EN.660.203 – Permission Required. This course focuses on company valuations, using the proprietary Hanke-Guttridge Discounted Free Cash Flow Model. Students use the model and data from financial statements filed with the Securities and Exchange Commission to calculate the value of publicly-traded companies. Using Monte Carlo simulations, students also generate forecast scenarios, project likely share-price ranges and assess potential gains/losses. Stress is placed on using these simulations to diagnose the subjective market expectations contained in current objective market prices, and the robustness of these expectations. During the weekly seminar, students' company valuations are reviewed and critiqued.	3.00	15	F 1:30-4:30PM
EN.570.487	01	S	W	Financial Market Research <i>Hanke, Steve H</i>	3.00	10	TBA

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Interdepartmental

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
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Permission Required. This course investigates the workings of financial, foreign exchange, and commodity futures markets. Research is focused on price behavior, speculation, and hedging in these markets. Extensive research and writing is required. Exceptional work may be suitable for publication through the Johns Hopkins Institute for Applied Economics, Global Health, and the Study of Business Enterprise.

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International Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.230.150	01	S		Issues in International Development <i>Agarwala, Rina</i> Freshmen and Sophomores only. This course will provide an undergraduate level introduction to the study and practice, as well as the successes and failures, of international development. Students will be introduced to the various theoretical frameworks used to explain underdevelopment. Students will also explore the practice of development since the 1950s by examining specific strategies employed in Latin America, South Asia, East Asia, and Africa. Using a variety of country-specific case studies, students will have the opportunity to apply the theoretical and practical frameworks learned in the class to assess the successes and failures of real-life cases. Fulfills Economics requirement for IS GSCD track students only. Cross listed with International Studies (IR)	3.00	15	W 3:00-4:50PM; M 3:00-3:50PM
AS.230.150	02	S		Issues in International Development	3.00	15	W 3:00-4:50PM; M 4:00-4:50PM
AS.230.175	01	S	W	Chinese Revolutions <i>Kuo, Huei-Ying</i> This course introduces the origins, operation and impacts of five major revolutions in modern China between 1850 and 1950. These include the Taiping Rebellion, the republican revolutions, federalist and southern automatic movements, labor strikes as well as peasant rebellions. It draws on the existing historiography that examines China's transition from an empire to a republic, impacts of western and Japanese influences to China, as well as the continuity and change of Chinese social organizations. Cross list with International Studies and East Asian Studies. Fulfills IS History requirement.	3.00	20	TTh 12:00-1:15PM
AS.230.265	01	QS		Research Tools and Technologies for the Social Sciences <i>Karatasli, Sahan Savas</i> This course will introduce students to a range of digital technologies that are critical for conducting social scientific research in the 21st century, using examples from ongoing social science faculty research projects at Johns Hopkins on global inequality and international development and on the 2010-2012 global wave of social protest. Students will develop competency in the use of computer programs for statistical analysis, database management, the creation of maps and timelines, and the presentation of research reports. Cross list with International Studies. Required for IS GSCD track students.	3.00	15	MWF 10:00-10:50AM
AS.230.265	02	QS		Research Tools and Technologies for the Social Sciences	3.00	15	MWF 11:00-11:50AM
AS.230.343	01	S		Political Sociology of Latin America <i>von der Heydt-Coca, Magda Zonia</i>	3.00	20	TTh 1:30-2:45PM

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AS.230.353	01	S	W	<p>This course provides an overview of Latin America through its historical, economic, social, and political dimensions. Emphasis will be given to the analysis of social structures: class, race and ethnicity, and the contemporary social movements. The course begins with an overview of the pre-Columbian civilizations and colonial legacies that gave rise to the multiethnic societies and the ethnic conflicts which characterize contemporary Latin America. Cross-listed with Program in Latin American Studies and International Studies (CP)</p> <p>Global Social Change <i>Hung, Ho-Fung</i></p> <p>This course introduces students to issues of global social change, with a particular focus on the challenges of international development and the contemporary globalization process. Specific themes include world income inequality and global poverty, the rise of supranational organizations (e.g. WTO and EU) and their relations with sovereign states, anti-globalization activism, the rise of China and India in the global economy, and the origins as well as consequences of the current global economic crisis, among others. Lectures will be aided by documentary films and other multi-media materials.</p> <p>Cross-listed with International Studies (IR). Fulfills Economics requirement for IS GSCD track students only.</p>	3.00	20	MW 1:30-2:45PM
AS.230.391	01	S		<p>Theories of International Development <i>Levien, Michael</i></p> <p>This course will cover major theoretical approaches to the study of development. We will begin with foundational political economic texts (including those of Adam Smith, Karl Marx, and Karl Polanyi). After setting the historical context of decolonization, we will then proceed to cover major theoretical approaches to the study of development in the past sixty years, including: modernization theory, dependency and world systems analysis, state-centered approaches, neo-institutionalism, the capabilities approach, political-ecology, post-development, feminism, the Washington consensus, social capital, experimental economics, and contemporary sociological reconstructions of Marx, Smith and Polanyi.</p> <p>Cross listed with International Studies (IR); fulfills IS Economics requirement for GSCD track students only.</p>	3.00	20	W 3:00-5:30PM

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Jewish Studies Program

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.100.129	01	HS		Introduction to Modern Jewish History <i>Moss, Kenneth</i> An examination of the history of Jews over the past three hundred years. Explores the dramatic encounter at the close of the 18th century between rapidly changing European societies caught up in intellectual, political, and economic revolution and a 2000-year old traditional civilization living in their midst; the kaleidoscopic array of Jewish political, religious, cultural and social responses to this encounter; the new forms of Jewish communal and individual life and consciousness which emerged in the course of the 19th and 20th centuries; the extension of this new modern framework to the Jews of the Middle East in the context of European imperialism and colonialism; the key roles played by the Jews as agents and symbols of political, economic, and cultural modernity; the phenomenon of anti-Semitism and whether it is a pathology or integral part of modern European civilization; the extreme shifts in Jewish life from the mid-20th century in light of the Holocaust, the creation of the state of Israel, and integration into American society.	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.129	02	HS		Introduction to Modern Jewish History	3.00	20	MW 11:00-11:50AM; F 12:00-12:50PM
AS.130.140	01	H		Hebrew Bible / Old Testament <i>Lewis, Theodore</i> The Bible is arguably the most read and yet most misinterpreted book of all time, one of the most influential and yet most misapplied work of literature. The Hebrew Bible (Old Testament) is Scripture to Jews and Christians yet also a rich collection of literature w/ numerous literary genres that has been highly influential on secular Western culture. At its core, it is our most important literary source that (when wed with archaeology) helps us to understand the people and culture of Iron Age Israel and Judah. This is an introductory course (no prerequisites) surveying of the books of the Hebrew Bible (Old Testament) giving primary attention to the religious ideas they contain and the ancient contexts in which they were composed. Topics include: The Academic Study of Religion, Ancient Creation Accounts, Ancestral Religion, The Exodus and Moses, Covenant, Tribalism and Monarchy, The Ideology of Kingship, Prophecy, Priestly Sources, Psalms, Wisdom Literature, and Apocalyptic Thought.	3.00	50	MW 12:00-1:15PM
AS.130.330	01	H		Sex And The Garden <i>Robbins, Ellen Ann</i> A seminar on the history of interpretation of Genesis 2-3, with a focus on the uses of the biblical story of the Garden of Eden in Jewish, Christian, and Muslim traditions. Class attendance and participation are mandatory. Cross-listed with Jewish Studies and Study of Women, Gender, & Sexuality	3.00	8	TTh 3:00-4:15PM
AS.130.341	01	H		Traditionalism vs. Orthodoxy in the Modern Era: The Case of Judaism <i>Katz, David</i>	3.00	100	TTh 9:00-10:15AM

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				During the Modern Era in European history, the Traditionalist Jewish civilization of Europe that had evolved over many centuries went into deep crisis. The new political, social, and intellectual realities which characterized Modernity seriously challenged, overwhelmed, and indeed threatened to destroy the Jewish Traditionalist culture and society. In response, different Traditionalist thinkers and communities evolved a number of strategies for surviving in a modern environment, strategies that unexpectedly transformed Traditionalism into something different, which came to be called Orthodox Judaism. This course explores this process of transformation, which has had an important impact on Jewish life in the modern and post-modern eras. Cross-listed with Jewish Studies			
AS.130.442	01	H		Readings - Hebrew Prose <i>Staff</i> Reading of biblical Hebrew prose, especially from the Pentateuch, Joshua, Judges, Samuel, and Kings. Cross-listed with Jewish Studies	3.00	15	TBA
AS.190.344	01	S	W	Seminar In Anti-Semitism <i>Ginsberg, Benjamin</i> Jews exercise a good deal of power in contemporary America.. They are prominent in a number of key industries, play important roles in the political process, and hold many major national offices. For example, though Jews constitute barely two percent of America's citizens, about one-third of the nation's wealthiest 400 individuals are Jewish and more than ten percent of the seats in the U.S. Congress are held by Jews. One recent book declared that, "From the Vatican to the Kremlin, from the White House to Capitol Hill, the world's movers and shakers view American Jewry as a force to be reckoned with." Of course, Jews have risen to power in many times and places ranging from the medieval Muslim world and early modern Spain through Germany and the Soviet Union in the 20th century. In nearly every prior instance, though, Jewish power proved to be evanescent. No sooner had the Jews become "a force to be reckoned with" than they found themselves banished to the political margins, forced into exile or worse. Though it may rise to a great height, the power of the Jews seems ultimately to rest on a rather insecure foundation. Cross-listed with Jewish Studies	3.00	15	W 1:30-3:50PM
AS.193.200	01	S	W	Early Holocaust Literature: Jewish Poetry and Prose 1939-1949 <i>Staff</i>	3.00	25	Th 1:30-3:50PM

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AS.210.163	01			<p>The course aims to introduce into the vast field of Holocaust Literature, from the inner point of view of the Jewish People and through its very beginnings: literary writing by Jews under Nazi Rule, as a form of immediate reaction to persecution and annihilation, and literary writing by Jewish survivors from the earliest possible retrospective and consciousness towards the impact of the Holocaust, immediately after liberation and until the decisive moment of the foundation of the State of Israel. Reference will be made mainly to professional writers, in Yiddish and Polish.</p> <p>Elementary Yiddish I <i>Caplan, Beatrice</i></p> <p>Yearlong course. Includes the four language skills: reading, writing, listening, and speaking and introduces students to Yiddish culture through text, song, and film. Emphasis is placed both on the acquisition of Yiddish as a tool for the study of Yiddish literature and Ashkenazic history and culture, and on the active use of the language in oral and written communication. Both semesters must be taken with a passing grade to receive credit. Cannot be taken satisfactory/unsatisfactory.</p>	3.00	12	TTh 9:00-10:15AM
AS.210.263	01	H		<p>Intermediate Yiddish I <i>Caplan, Beatrice</i></p> <p>This course will focus on understanding the Yiddish language as a key to understanding the culture of Yiddish-speaking Jews. Emphasis will be placed on reading literary texts and historical documents. These primary sources will be used as a springboard for work on the other language skills: writing, listening, and speaking. Prerequisite: 210.164 or equivalent; or two years of German and permission of instructor.</p>	3.00	15	TTh 12:00-1:15PM
AS.213.336	01	H		<p>Dancing About Architecture: Jewish Humor and the Construction of Cultural Discourse <i>Caplan, Marc</i></p>	3.00	50	MW 12:00-1:15PM

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				<p>Are all Jews funny, or only the ones from New York? This course will be an advanced-undergraduate examination of literary, theatrical, cinematic, and televised representations of Jewish culture focusing on the construction of cultural discourse through comedy. Taking as a point of departure Sigmund Freud's <i>Jokes and Their Relation to the Unconscious</i>, we will consider the joke as a mode of narration and cultural coding with specific resonances for the Jewish encounter with modernity. Among the topics to be addressed in this course will be the origins of modern Jewish humor in traditional modes of storytelling and study; the problems of anxiety and otherness articulated and neutralized through humor; the significance of Jews in creating popular culture through the mass media (particularly though not exclusively in the United States) as well as the role of these mediums in transmitting and translating Jewish references to the general culture; the status of the Yiddish language as a vehicle for satire and a vehicle of resistance between tradition and modernity; the uses and abuses of Jewish stereotypes and the relationship of Jewish humor to anti-Semitism; the connections between Jewish humor and other modes of minority discourse; and the question of translation of Jewish humor both from Yiddish into other languages and from the Jewish "in-group" to a "post-ethnic" audience. Authors and performers to be examined will include Avrom Goldfaden, Sholem Aleichem, Franz Kafka, Dzigan and Szumacher, Lenny Bruce, the Marx Brothers, Mel Brooks, Phillip Roth, Woody Allen, Larry David, Sarah Silverman, and the Coen Brothers. All readings and discussions conducted in English.</p>			
AS.300.330	01	HS		<p>Trauma in Theory, Film, and Fiction <i>Leys, Ruth</i></p> <p>An examination of the representation of trauma in literary theory, psychiatry, survivor literature, films, novels, and comics. Works by Sebald ("The Emigrants"), Lanzmann ("Shoah"), Spiegelman ("In the Shadow of No Towers"), McCarthy ("Remainder"), and others.</p>	3.00	15	T 1:30-3:50PM
AS.384.115	01			<p>First Year Hebrew <i>Cohen, Zvi</i></p> <p>Designed to provide reading and writing mastery, to provide a foundation in Hebrew grammar and to provide basic conversational skills. Cross-listed with Jewish Studies.</p>	4.00	16	MTWTh 9:00-9:50AM
AS.384.215	01	H		<p>Second Year Hebrew <i>Cohen, Zvi</i></p> <p>Prereqs: 384.115 and 384.116 or 130.450 and 451</p> <p>Designed to enrich vocabulary and provide intensive grammatical review, and enhance fluency in reading, writing and comprehension. Cross-listed with Jewish Studies.</p>	4.00	16	MW 10:00-10:50AM; TTh 10:30-11:20AM
AS.384.315	01	H		<p>Third Year Hebrew <i>Cohen, Zvi</i></p>	4.00	16	MTWTh 2:30-3:20PM

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Prereqs: 384.215 and 384.216 or 130.452 and 130.453

Designed to: maximize comprehension and the spoken language through literary and newspaper excerpts providing the student with the language of an educated Israeli.

Cross-listed with Jewish Studies.

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Mathematics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.110.105	01	Q		Intro to Calculus <i>Staff</i> This course starts from scratch and provides students with all the background necessary for the study of calculus. It includes a review of algebra, trigonometry, exponential and logarithmic functions, coordinates and graphs. Each of these tools will be introduced in its cultural and historical context. The concept of the rate of change of a function will be introduced. Not open to students who have studied calculus in high school.	4.00	30	MWF 9:00-9:50AM; T 1:30-2:20PM
AS.110.105	02	Q		Intro to Calculus	4.00	30	MWF 9:00-9:50AM; T 3:00-3:50PM
AS.110.106	01	Q		Calculus I <i>Gomez, Jose</i> Differential and integral calculus. Includes analytic geometry, functions, limits, integrals and derivatives, introduction to differential equations, functions of several variables, linear systems, applications for systems of linear differential equations, probability distributions. Many applications to the biological and social sciences will be discussed.	4.00	30	MWF 10:00-10:50AM; T 4:30-5:20PM
AS.110.106	02	Q		Calculus I	4.00	30	MWF 10:00-10:50AM; T 3:00-3:50PM
AS.110.106	03	Q		Calculus I	4.00	30	MWF 10:00-10:50AM; Th 4:30-5:20PM
AS.110.106	04	Q		Calculus I	4.00	30	MWF 10:00-10:50AM; Th 3:00-3:50PM
AS.110.106	05	Q		Calculus I	4.00	30	MWF 10:00-10:50AM; Th 1:30-2:20PM
AS.110.106	06	Q		Calculus I	4.00	30	MWF 10:00-10:50AM; Th 3:00-4:20PM
AS.110.106	07	Q		Calculus I	4.00	30	MWF 11:00-11:50AM; Th 1:30-2:20PM
AS.110.106	08	Q		Calculus I	4.00	30	MWF 11:00-11:50AM; T 3:00-4:20PM
AS.110.106	09	Q		Calculus I	4.00	30	MWF 11:00-11:50AM; T 1:30-2:20PM
AS.110.106	10	Q		Calculus I	4.00	30	MWF 11:00-11:50AM; Th 3:00-3:50PM
AS.110.106	11	Q		Calculus I	4.00	30	MWF 11:00-11:50AM; Th 4:30-5:20PM
AS.110.107	01	Q		Calculus II <i>Wilson, W Stephen</i> Differential and integral calculus. Includes analytic geometry, functions, limits, integrals and derivatives, introduction to differential equations, functions of several variables, linear systems, and applications for systems of linear differential equations, probability distributions.	4.00	30	MWF 10:00-10:50AM; T 4:30-5:20PM
AS.110.107	02	Q		Calculus II	4.00	30	MWF 10:00-10:50AM; T 3:00-3:50PM
AS.110.107	03	Q		Calculus II	4.00	30	MWF 10:00-10:50AM; Th 3:00-3:50PM
AS.110.107	04	Q		Calculus II	4.00	30	MWF 10:00-10:50AM; Th 1:30-2:20PM
AS.110.108	01	Q		Calculus I <i>Smithling, Brian</i> Differential and integral calculus. Includes analytic geometry, functions, limits, integrals and derivatives, polar coordinates, parametric equations, Taylor's theorem and applications, infinite sequences and series.	4.00	30	MWF 10:00-10:50AM; T 1:30-2:20PM
AS.110.108	02	Q		Calculus I	4.00	30	MWF 10:00-10:50AM; T 3:00-3:50PM
AS.110.108	03	Q		Calculus I	4.00	30	MWF 10:00-10:50AM; Th 1:30-2:20PM
AS.110.108	04	Q		Calculus I	4.00	30	MWF 11:00-11:50AM; Th 4:30-5:20PM
AS.110.108	05	Q		Calculus I	4.00	30	MWF 11:00-11:50AM; Th 3:00-4:20PM
AS.110.109	01	Q		Calculus II <i>Arap, Maxim</i>	4.00	30	MWF 10:00-10:50AM; T 1:30-2:20PM

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Mathematics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Differential and integral calculus. Includes analytic geometry, functions, limits, integrals and derivatives, polar coordinates, parametric equations, Taylor's theorem and applications, infinite sequences and series. Some applications to the physical sciences and engineering will be discussed, and the courses are designed to meet the needs of students in these disciplines.			
AS.110.109	02	Q		Calculus II	4.00	30	MWF 10:00-10:50AM; T 3:00-3:50PM
AS.110.109	03	Q		Calculus II	4.00	30	MWF 10:00-10:50AM; Th 4:30-5:20PM
AS.110.109	04	Q		Calculus II	4.00	30	MWF 10:00-10:50AM; Th 3:00-3:50PM
AS.110.109	05	Q		Calculus II	4.00	30	MWF 10:00-10:50AM; Th 1:30-2:20PM
AS.110.109	06	Q		Calculus II	4.00	30	MWF 11:00-11:50AM; T 3:00-3:50PM
AS.110.109	07	Q		Calculus II	4.00	30	MWF 11:00-11:50AM; T 1:30-2:20PM
AS.110.109	08	Q		Calculus II	4.00	30	MWF 11:00-11:50AM; Th 3:00-3:50PM
AS.110.109	09	Q		Calculus II	4.00	30	MWF 11:00-11:50AM; Th 4:30-5:20PM
AS.110.109	10	Q		Calculus II	4.00	30	MWF 11:00-11:50AM; Th 3:00-3:50PM
AS.110.113	01	Q		Honors One Variable Calculus <i>Lind, John</i> This is an honors alternative to the Calculus sequences 110.106-107 or 110.108-109 and meets the general requirement for both Calculus I and Calculus II (although the credit hours count for only one course). It is a more theoretical treatment of one variable differential and integral calculus and is based on our modern understanding of the real number system as explained by Cantor, Dedekind, and Weierstrass. Students who want to know the "why's and how's" of Calculus will find this course rewarding. Previous background in Calculus is not assumed. Students will learn differential Calculus (derivatives, differentiation, chain rule, optimization, related rates, etc), the theory of integration, the fundamental theorem(s) of Calculus, applications of integration, and Taylor series. Prerequisite: A strong ability to learn mathematics quickly and on a higher level than that of the regular Calculus sequences.	4.00	30	MW 1:30-2:45PM; F 1:30-2:20PM
AS.110.201	01	Q		Linear Algebra <i>Brown, Richard</i> Prereq: Calculus Vector spaces, matrices, and linear transformations. Solutions of systems of linear equations. Eigenvalues, eigenvectors, and diagonalization of matrices. Applications to differential equations.	4.00	30	MWF 10:00-10:50AM; T 1:30-2:20PM
AS.110.201	02	Q		Linear Algebra	4.00	30	MWF 10:00-10:50AM; T 3:00-3:50PM
AS.110.201	03	Q		Linear Algebra	4.00	30	MWF 10:00-10:50AM; T 4:30-5:20PM
AS.110.201	04	Q		Linear Algebra	4.00	30	MWF 10:00-10:50AM; Th 1:30-2:20PM
AS.110.201	05	Q		Linear Algebra	4.00	30	MWF 10:00-10:50AM; Th 3:00-3:50PM
AS.110.202	01	Q		Calculus III <i>Tohaneanu, Mihai</i> Calculus of functions of more than one variable: partial derivatives, and applications; multiple integrals, line and surface integrals; Green's Theorem, Stokes' Theorem, and Gauss' Divergence Theorem.	4.00	30	MWF 11:00-11:50AM; T 1:30-2:20PM

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AS.110.202	02	Q		Calculus III	4.00	30	MWF 11:00-11:50AM; T 3:00-3:50PM
AS.110.202	03	Q		Calculus III	4.00	30	MWF 11:00-11:50AM; Th 4:30-5:20PM
AS.110.202	04	Q		Calculus III	4.00	30	MWF 11:00-11:50AM; Th 3:00-3:50PM
AS.110.202	05	Q		Calculus III	4.00	30	MWF 11:00AM-11:50PM; Th 1:30-2:20PM
AS.110.202	06	Q		Calculus III	4.00	30	MWF 12:00-12:50PM; T 4:30-5:20PM
AS.110.202	07	Q		Calculus III	4.00	30	MWF 12:00-12:50PM; Th 1:30-2:20PM
AS.110.202	08	Q		Calculus III	4.00	30	MWF 12:00-12:50PM; Th 3:00-3:50PM
AS.110.202	09	Q		Calculus III	4.00	30	MWF 12:00-12:50PM; T 1:30-2:20PM
AS.110.202	10	Q		Calculus III	4.00	30	MWF 12:00-12:50PM; T 3:00-3:50PM
AS.110.211	01	Q		Honors Multivariable Calculus <i>Staff</i> This course includes the material in Calculus III (202) with some additional applications and theory. Recommended for mathematically able students majoring in physical science, engineering, or especially mathematics. 110.211-212 used to be an integrated yearlong course, but now the two are independent courses and can be taken in either order.	4.00	30	MW 12:00-1:15PM; F 12:00-12:50PM
AS.110.212	01	Q		Honors Linear Algebra <i>Wilson, W Stephen</i> This course includes the material in Linear Algebra (201) with some additional applications and theory. Recommended for mathematically able students majoring in physical science, engineering, or mathematics. 211-212 used to be an integrated yearlong course, but now the two are independent courses and can be taken in either order. This course satisfies a requirement for the math major that its non-honors sibling does not.	4.00	30	MW 1:30-2:45PM; F 1:30-2:20PM
AS.110.302	01	Q		Diff Equations/Applic <i>Gjoneski, Oliver</i> This is an applied course in ordinary differential equations, which is primarily for students in the biological, physical and social sciences, and engineering. The purpose of the course is to familiarize the student with the techniques of solving ordinary differential equations. The specific subjects to be covered include first order differential equations, second order linear differential equations, applications to electric circuits, oscillation of solutions, power series solutions, systems of linear differential equations, autonomous systems, Laplace transforms and linear differential equations, mathematical models (e.g., in the sciences or economics).	4.00	30	MWF 12:00-12:50PM; T 1:30-2:20PM
AS.110.302	02	Q		Diff Equations/Applic	4.00	30	MWF 12:00-12:50PM; T 3:00-3:50PM
AS.110.302	03	Q		Diff Equations/Applic	4.00	30	MWF 12:00-12:50PM; Th 3:00-3:50PM
AS.110.302	04	Q		Diff Equations/Applic	4.00	30	MWF 12:00-12:50PM; Th 4:30-5:20PM
AS.110.302	05	Q		Diff Equations/Applic	4.00	30	T 4:30-5:20PM; MWF 1:30-2:20PM
AS.110.302	06	Q		Diff Equations/Applic	4.00	30	Th 1:30-2:20PM; MWF 1:30-2:20PM
AS.110.302	07	Q		Diff Equations/Applic	4.00	30	Th 3:00-3:50PM; MWF 1:30-2:20PM
AS.110.302	08	Q		Diff Equations/Applic	4.00	30	T 3:00-3:50PM; MWF 1:30-2:20PM
AS.110.304	01	Q		Elementary Number Theory <i>Kong, Jian</i>	4.00	40	TTTh 9:00-10:15AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				The student is provided with many historical examples of topics, each of which serves as an illustration of and provides a background for many years of current research in number theory. Primes and prime factorization, congruences, Euler's function, quadratic reciprocity, primitive roots, solutions to polynomial congruences (Chevalley's theorem), Diophantine equations including the Pythagorean and Pell equations, Gaussian integers, Dirichlet's theorem on primes.			
AS.110.311	01	Q		Methods/Complex Analysis <i>Staff</i>	4.00	40	TTh 12:00-1:15PM
				This course is an introduction to the theory of functions of one complex variable. Its emphasis is on techniques and applications, and it serves as a basis for more advanced courses. Functions of a complex variable and their derivatives; power series and Laurent expansions; Cauchy integral theorem and formula; calculus of residues and contour integrals; harmonic functions.			
AS.110.401	01	Q		Advanced Algebra I <i>Morava, Jack</i>	4.00	30	MW 12:00-1:15PM; F 12:00-12:50PM
				An introduction to the basic notions of modern algebra. Elements of group theory: groups, subgroups, normal subgroups, quotients, homomorphisms. Generators and relations, free groups, products, commutative (Abelian) groups, finite groups. Groups acting on sets, the Sylow theorems. Definition and examples of rings and ideals. Introduction to field theory. Linear algebra over a field. Field extensions, constructible polygons, non-trisectability.			
AS.110.405	01	Q		Introduction to Real Analysis <i>Spruck, Joel</i>	4.00	30	MW 1:30-2:45PM; F 1:30-2:20PM
				This course is designed to give a firm grounding in the basic tools of analysis. It is recommended as preparation (but may not be a prerequisite) for other advanced analysis courses. Real and complex number systems, topology of metric spaces, limits, continuity, infinite sequences and series, differentiation, Riemann-Stieltjes integration.			
AS.110.415	01	Q		Honors Analysis I <i>Zucker, Steven</i>	4.00	30	MW 1:30-2:45PM; F 1:30-2:20PM
				This highly theoretical sequence in analysis is reserved for the most able students. The sequence covers the real number system, metric spaces, basic functional analysis, the Lebesgue integral, and other topics.			
AS.110.439	01	Q		Intro to Diff Geometry <i>Wang, Lu</i>	4.00	40	TTh 1:30-2:45PM
				Linear Algebra Theory of curves and surfaces in Euclidean space: Frenet equations, fundamental forms, curvatures of a surface, theorems of Gauss and Mainardi-Codazzi, curves on a surface; introduction to tensor analysis and Riemannian geometry; theorem egregium; elementary global theorems.			
AS.110.443	01	EQ		Fourier Analysis <i>Staff</i>	4.00	40	TTh 10:30-11:45AM

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Mathematics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: Grade of C- or better in 110.201 or 110.212 and 110.202 or 110.211. An introduction to the Fourier transform and the construction of fundamental solutions of linear partial differential equations. Homogeneous distributions on the real line: the Dirac delta function, the Heaviside step function. Operations with distributions: convolution, differentiation, Fourier transform. Construction of fundamental solutions of the wave, heat, Laplace and Schrödinger equations. Singularities of fundamental solutions and their physical interpretations (e.g., wave fronts). Fourier analysis of singularities, oscillatory integrals, method of stationary phase.			
AS.110.443	01	Q		Fourier Analysis	4.00	40	TTh 10:30-11:45AM

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Military Science

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.374.101	01			Leadership and Management I <i>Wood, Jeffrey James</i> This is an introductory course in basic leadership and management concepts, theories and principles of decision making for application to any professional environment. This course is recommended for those who have leadership aspirations or are currently in student leadership positions. This course is intended to provide a foundation for those desiring to establish and improve their personal leadership philosophy. It establishes a baseline understanding of the US Army's leadership and management principles. This course is taught through a series of lectures and small group discussions. Students are required to conduct research in the areas of leadership and management and present their findings in an oral presentation or written report to their small group. In addition to learning the foundations of leadership, students will learn about the corporate and non-corporate aspects and operations of the US Army, time management, ethics, values, mission statements and goal setting. Co-requisite: 374.110 for ROTC students; none for non-ROTC students.	2.00	30	W 1:30-3:20PM
AS.374.101	02			Leadership and Management I	2.00	30	Th 1:30-3:20PM
AS.374.110	01			Basic Leadership Laboratory I <i>Wood, Jeffrey James</i> These introductory courses in a laboratory environment are designed to expose students to practical experiences, challenges and individual learning opportunities in a small group. Students learn the fundamentals of an organization and apply principles of leadership and management at the foundation level. Students develop military courtesy, organizational discipline, communication and basic leadership and management skills. Ultimately, students understand how to facilitate and lead a small group of four to five people as an integral part of a larger organization of 75-100 people through situational training opportunities in a variety of conditions. As a leadership practicum, students have the opportunity to serve in leadership positions and receive tactical and technical training. In addition to learning to lead groups of five to 100 people, students will also be exposed to training on first aid, operating Army equipment, Army activities such as rappelling and drill and ceremony. These laboratories are required for enrolled ROTC participants who desire to be considered for a commission in the Army. Co-requisite: 374.101-102	1.00	50	Th 4:00-5:50PM
AS.374.201	01			Leadership & Teamwork I <i>Dusablon, Matthew</i>	2.00	25	Th 1:30-3:20PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				The focus of this course is on developing leadership and communication skills. Case studies will provide a tangible context for learning and applying aspects of team building, values, the Army Warrior Ethos, and principles of war as they apply in the contemporary operating environment. The key objective of this course is to develop knowledge of the Army's leadership philosophies and integrate this knowledge into personal skills and team development. At the end of this course, students will be able to describe and perform tasks during the four basic phases of team building; demonstrate the types and elements of interpersonal communication; illustrate, explain, and apply the Principles of War; identify and apply problem solving steps, and apply basic leadership procedures in simple and complex situations. Co-requisite: 374.210 for ROTC students; none for non-ROTC students.			
AS.374.201	02			Leadership & Teamwork I	2.00	25	W 1:30-3:20PM
AS.374.210	01			Basic Team Leadership <i>Dusablon, Matthew</i> Students lead and assist in leading 4-5 person teams through a variety of training opportunities. They learn the troop-leading procedures, basic problem solving, and tactical skills aimed at military leadership. Students will mentor and assist members of their team with improving their own skills and leadership as well. Co-requisite: 374.201.	1.00	50	Th 4:00-5:50PM
AS.374.301	01	W		Leadership and Tactical Theory I <i>Sime, Bart</i> Students will be introduced to the tenets of Army leadership, officership, Army values, ethics and personal development. Students will learn the fundamentals of physical training, land navigation, orders production, and small unit tactics at the squad and platoon level. Each student will be given multiple opportunities to plan and lead squad level tactical missions in the classroom and during Leadership Laboratories. Co-requisite: 374.310. Prerequisite: Basic Course completion.	2.00	25	T 3:30-5:20PM
AS.374.301	02	W		Leadership and Tactical Theory I	2.00	25	W 3:30-5:20PM
AS.374.307	01	W		Leadership in Military History <i>Wood, Jeffrey James</i> This course provides students with a historical perspective to decisions made by American military leaders: battlefield complexity, resource limitations, and teamwork deficiencies. Students cover major military engagements from the colonial period through the current operating environment. Students examine how leaders motivated their men, devised battle strategies, implemented rules of engagement, and managed supplies, transportation, and logistics for their troops. Prerequisite: permission of the Director of Military Science.	2.00	25	Th 7:00-8:50AM
AS.374.310	01			Basic Tactical Leadership Lab <i>Sime, Bart</i>	1.00	50	Th 3:00-5:50PM

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				In Leadership Laboratory, students are given the opportunity to apply what they have learned in the classroom, in a tactical or field environment. Students learn and demonstrate the fundamentals of leadership by planning, coordinating, navigating, motivating, and leading squads in the execution of both garrison and tactical missions. Students are evaluated as part of the Leadership Development Program and FM 6-22, Army Leadership. Ultimately, prepares students to excel at the four-week National Leadership Development and Assessment Course at Fort Lewis, WA. Co-requisite: 374.301.			
AS.374.401	01			Adaptive Leadership <i>Carroll, Paul</i> Students are assigned the duties and responsibilities of an Army battalion staff officer and must apply the fundamentals of principles of training, the training management, the Army writing style and military decision making to weekly training meetings. Students plan, execute and assess ROTC training and other Mission Essential Tasks. Students will study how Army values and leader ethics are applied in the Contemporary Operating Environment and how these values and ethics are relevant to everyday life. The student will study the Army officer's role in developing subordinates via counseling and administrative actions, as well as managing their own career. Students will be given numerous opportunities to train, mentor and evaluate underclass students enrolled in the ROTC Basic Course while being mentored and evaluated by experienced ROTC cadre. Co-requisite: 374.410. Prerequisite: 374.301-302, 310-320 and the Basic Course.	2.00	20	T 3:30-5:20PM
AS.374.407	01			Being a Platoon Leader <i>Carroll, Paul</i> This course prepares Cadets for actual challenges not necessarily described in text books that junior officers may face in today's Army. Topics include: serving during war, conflict management, ethical dilemmas, time-constrained planning, and change management. This course also serves as pre-requisite for the Basic Officer Leadership Course "B" phase by providing students with reinforced development on: deployment preparation, the military style of writing, supply management, human resources management, family support and operations management. Students will also learn how the Army's organizational structure and administration affects Soldiers across ranks and over time. Finally, students will learn ways to leverage automation to improve their efficiency and effectiveness of records management and developing presentations for superiors.	1.00	20	TBA
AS.374.410	01			Advanced Planning & Decision Making I <i>Carroll, Paul</i>	1.00	50	Th 3:00-5:50PM

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Students develop a semester-long progression of programmed training activities that support completion of the unit's Mission Essential Task List. The laboratory builds from fall to spring semester as students master advanced problem solving, resource synchronization and executive decision making. Students evaluate, mentor and develop subordinate leaders as part of the Leadership Development Program and FM 6-22, Army Leadership. The course serves as the final evaluation and determination on a student's ability to lead Soldier's as a Second Lieutenant in the US Army. Co-requisite: 374.401-402. Prerequisites: 374.301-302, 310-320 and Basic Course.

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Music

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i> Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Shakespeare, Douglass, and Woolf.	3.00	15	MW 12:00-1:15PM
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	MW 12:00-1:15PM
AS.360.133	03	H	W	Great Books at Hopkins <i>Strowick, Elisabeth</i>	3.00	15	MW 12:00-1:15PM
AS.376.111	01			Rudiments-Music Theory <i>Crouch, John C.</i> This course introduces written and aural music fundamentals including notation, scales, intervals, chords, rhythm, meter and sight-singing. Students will compose melodies and short pieces and complete listening projects.	3.00	15	MWF 10:00-10:50AM
AS.376.111	02			Rudiments-Music Theory	3.00	15	MWF 12:00-12:50PM
AS.376.111	03			Rudiments-Music Theory <i>Staff</i>	3.00	15	TTh 9:00-10:15AM
AS.376.211	01			Music Theory I <i>Hardaway, Travis</i> Prereq: Qualifying examination or 376.111 Introduction to basic principles of tonal music through listening, analysis and music making. Students study melody, harmony, voice leading, figured bass and dissonance treatment, and will also undertake short composition projects.	3.00	15	MWF 10:00-10:50AM
AS.376.211	02			Music Theory I <i>Stone, Stephen C</i>	3.00	15	MWF 1:30-2:20PM
AS.376.212	01			Theory/Musicianship II <i>Crouch, John C.</i> Prereq: 376.211 This course continues the written and aural work of the previous course but focuses on chromatic harmony while continuing the study of melody, counterpoint and figured bass.	3.00	15	MWF 11:00-11:50AM
AS.376.217	01			Music Theory III - Song <i>Hardaway, Travis</i> Prereq: 376.212 - Music Theory and Musicianship II An examination of text-setting and song-writing in a variety of eras and styles. Topics will include art song, lieder, jazz standards, and pop tunes.	3.00	15	MWF 11:00-11:50AM
AS.376.242	01	H		Intro To Popular Music <i>Smooke, David</i> A survey of the stylistic features and social contexts of American popular music since the 1950s.	3.00	20	MW 3:00-3:50PM; F 3:00-3:50PM
AS.376.242	02	H		Intro To Popular Music	3.00	20	F 3:00-3:50PM; MW 3:00-3:50PM

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Music

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.376.242	03	H		Intro To Popular Music	3.00	20	F 3:00-3:50PM; MW 3:00-3:50PM
AS.376.250	01	H		Introduction to Computer Music <i>Lackey, Mark A</i> Introduction to Computer Music is an opportunity for people with no specialized training in music to explore electronic art music as a long-standing, if obscure, body of art, then to participate in creative work in the style. Participants will gain a heuristic understanding of forms of musical composition that operate outside the conventions of regular rhythm and harmony as they record and manipulate sound to sculpt it into original musical works. The lecture portion combines an historical overview of electronic music, rudiments of acoustics and musical perception, and instruction in compositional techniques and in using computers as creative musical tools. The laboratory portion, given at the Digital Media Center, serves as a workshop for creative exploration and for the completion of assigned creative projects including original works of digital sound art.	3.00	14	MW 9:00-9:50AM; F 9:00-9:50AM
AS.376.252	01	H		Jazz History <i>Norris, Alexander Pope</i> Survey, investigation, and study of Jazz music and how it shaped American history from it's origins to current times.	3.00	20	Th 1:30-3:50PM
AS.376.303	01	H	W	Musical Theater from Aristophanes to Leonard Bernstein <i>Weiss, Susan Forscher</i> This course examines the birth of musical theatre from Greek tragedy through the liturgical and secular plays of the middle ages and Renaissance, to the classical and romantic singspiels, operettas, and zarzuelas of the modern era, by such figures as Aristophanes, Adam de la Halle, Hildegard of Bingen, Angelo Poliziano, Juan del Encina, Wolfgang Amadeus Mozart, Gilbert and Sullivan, Ernesto Lecuona, Igor Stravinsky, and Kurt Weill. These will serve as a backdrop for a closer examination of the musicals of Jerome Kern, Cole Porter, George Gershwin, Irving Berlin, Richard Rodgers, Harold Arlen, Frank Loesser, Leonard Bernstein and others. In addition to studying and placing the works of these Broadway giants into a social, political, and economic context, we will study and perform from representative musicals and attend a performance at the Lyric Theatre. Student will be expected to write a capstone project.	3.00	20	T 4:30-6:50PM
AS.376.371	01	NS		Topics in Music Cognition I <i>Lopez-Gonzalez, Monica</i>	3.00	15	Th 4:30-6:50PM

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Music

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What underlies our aesthetic response to music? How and why are we able to identify certain sounds as music? To what extent are music and natural language similar? What is it about music that evokes such powerful emotions such as happiness and sadness? What is unique to musical creativity? Examining such questions from cognitive science, neuroscience, psychology, and philosophical perspectives, this course explores relevant research and theory in the emerging domain of music perception and cognition. Students will complete a final research paper on the topic of their choice that integrates the course material.

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Near Eastern Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.010.105	01	H		Art of the Ancient Americas <i>Deleonardis, Lisa</i> Surveys the art of Olmec, West Mexico, Teotihuacan, Maya, and Aztec.	3.00	25	TTh 10:30-11:45AM
AS.010.151	01	H		Art and Architecture of Early Christian and Medieval North Africa <i>Dennis, Nathan Stuart</i> Survey of Early Christian and medieval art and architecture in North Africa, with an emphasis on indigenous developments and cultural exchange in the Mediterranean world, 4th to 13th century.	3.00	25	TTh 4:30-5:45PM
AS.010.236	01	H		Palaces, Temples and Tombs in Mesopotamia <i>Staff</i> Mesopotamia, the "land between the rivers," is considered the cradle of civilization. Its earliest urban centers appeared by 3500 BCE in the region of modern-day Iraq, Iran, and Syria. Along with urbanism came the emergence of temples and palaces as large-scale elite institutions (replete with written records). Their arts manifest some of the earliest complex representations. This course explores the art and architecture within the social, political and cultural context of ancient Sumer, Babylonia and Assyria. It provides an integrated picture of the arts of Mesopotamia from 3500 to 330 BCE with an emphasis on the development of visual narrative and the use of art in the expression of authority and legitimacy.	3.00	25	MW 3:00-4:15PM
AS.010.389	01	H	W	The Stone and the Thread <i>Deleonardis, Lisa</i> This course examines the built environment of the Inka and considers architecture in its social, historical, and cultural contexts. Shared forms and ideas implicit in the fiber arts offer comparative points for analysis and discussion.	3.00	25	TTh 3:00-4:15PM
AS.010.470	01	H	W	Power and Politics in Assyrian Art <i>Staff</i> Assyria, centered in northern Iraq, created one of the world's first great empires that dominated the ancient Near Eastern world from around 900 to 612 BCE. In concert with imperial expansion came an explosion of artistic production ranging from palace wall reliefs to small-scale luxury objects. This seminar examines the close relationship between the arts and politics in the Assyrian empire. Some themes that will be explored are: historical narrative, text and image, portable luxury arts and gender, politics and religion. The course will engage in close visual analysis of the ancient materials and readings of critical scholarship.	3.00	12	MW 12:00-1:15PM
AS.040.137	01	H	W	Archaeology at the Crossroads: The Ancient Eastern Mediterranean through Objects in the JHU Archaeological Museum <i>Anderson, Emily S.K.</i>	3.00	10	TTh 1:30-2:45PM

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Near Eastern Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Limited to Freshmen. This seminar investigates the Eastern Mediterranean as a space of intense cultural interaction in the Late Bronze Age, exploring how people, ideas, and things not only came into contact but deeply influenced one another through maritime trade, art, politics, etc. In addition to class discussion, we will work hands-on with artifacts from the JHU Archaeological Museum, focusing on material from Cyprus. Cross-list with Museums and Society and Near Eastern Studies.			
AS.130.102	01	H	W	From the Neanderthals to the Neolithic <i>McCarter, Susan</i>	3.00	60	TTh 1:30-2:45PM
				Emphasizing theories about human biological and cultural development, this course consists of an in-depth survey of Neanderthal morphology and culture, a brief discussion of evolutionary theory and our fossil ancestors, and concludes with an exploration of the mechanisms and results of the shift from hunting and gathering to farming. (Course formerly known as Intro: Human Prehistory) Cross-listed with Anthropology			
AS.130.107	01	H	W	Freshman Seminar - BIG: Monumental Buildings and Sculpture in Antiquity and Today <i>Osborne, James F</i>	3.00	15	TTh 9:00-10:15AM
				The building of sculpted monuments and monumental architecture seems to be a universal human trait in all parts of the world, from the pyramids of ancient Egypt to the inuksuit cairns of the Inuit. What explains our urge to create monumental things? Why are monuments built, and how do we experience them? This course explores various answers to these questions through the disciplines that most frequently address monuments: archaeology, architecture, and art history. We will examine the archaeological record through a series of famous case studies from around the world to investigate the social significance of monuments in their original ancient contexts. We will also determine whether lessons learned from the past can be applied to the study of monuments today, and whether studying modern monuments--including those from our immediate surroundings in Baltimore--can help us understand those of the past. As a writing intensive seminar, students will also be taught techniques in academic essay writing, culminating in a final paper analyzing the social significance of a monument from the past or present.			
AS.130.110	01	HS		Intro To Archaeology <i>Schwartz, Glenn M</i>	3.00	80	TTh 10:30-11:45AM
				An introduction to archaeology and to archaeological method and theory, exploring how archaeologists excavate, analyze, and interpret ancient remains in order to reconstruct how ancient societies functioned. Specific examples from a variety of archaeological projects in different parts of the world will be used to illustrate techniques and principles discussed. Cross-listed with Anthropology			

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Near Eastern Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.130.135	01	H	W	Pyramids, Temples and Tombs <i>Bryan, Betsy Morrell</i> Introduction to the monuments and culture of Egypt from 3500 B.C. to 100 A.D. From the pyramids at Giza to Hellenistic Alexandria, this course surveys in slide illustrated lectures the remains of one of the world's greatest early cultures.	3.00	100	MWF 10:00-10:50AM
AS.130.140	01	H		Hebrew Bible / Old Testament <i>Lewis, Theodore</i> The Bible is arguably the most read and yet most misinterpreted book of all time, one of the most influential and yet most misapplied work of literature. The Hebrew Bible (Old Testament) is Scripture to Jews and Christians yet also a rich collection of literature w/ numerous literary genres that has been highly influential on secular Western culture. At its core, it is our most important literary source that (when wed with archaeology) helps us to understand the people and culture of Iron Age Israel and Judah. This is an introductory course (no prerequisites) surveying of the books of the Hebrew Bible (Old Testament) giving primary attention to the religious ideas they contain and the ancient contexts in which they were composed. Topics include: The Academic Study of Religion, Ancient Creation Accounts, Ancestral Religion, The Exodus and Moses, Covenant, Tribalism and Monarchy, The Ideology of Kingship, Prophecy, Priestly Sources, Psalms, Wisdom Literature, and Apocalyptic Thought.	3.00	50	MW 12:00-1:15PM
AS.130.201	01	H	W	Cleopatra <i>Jasnow, Richard</i> Few individuals in history have left as lasting an impression as that of Cleopatra. In this seminar-style class we will examine both the "fact" and "fiction" associated with her eventful life (and death). Writing intensive, but no prerequisites; all readings in translation.	3.00	12	TTh 3:00-4:15PM
AS.130.312	01	H		Ancient Medicine <i>McCarter, P Kyle, Jr.</i> A study of medicine in the ancient Near Eastern and Aegean worlds, including an examination of the practices of medicine in these ancient societies but with primary emphasis given to ideas about health and disease. Readings are selected from primary sources in the writings of ancient Egypt, Mesopotamia, Israel, Greece, and Rome. Topics treated include the sources of our knowledge; the nature of medical practitioners, medical treatment, and surgery; beliefs about disease and the etiology of illness; concepts of contagion and ritual purity. Special attention is given to Hippocratic medicine, the synthesis of Galen, and the rise of humoralism.	3.00	30	MW 1:30-2:45PM
AS.130.330	01	H		Sex And The Garden <i>Robbins, Ellen Ann</i>	3.00	8	TTh 3:00-4:15PM

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				A seminar on the history of interpretation of Genesis 2-3, with a focus on the uses of the biblical story of the Garden of Eden in Jewish, Christian, and Muslim traditions. Class attendance and participation are mandatory. Cross-listed with Jewish Studies and Study of Women, Gender, & Sexuality			
AS.130.331	01	H	W	Sex, Drugs, and Rock & Roll in Ancient Egypt <i>Bryan, Betsy Morrell</i> This seminar explores the social roles of sexuality, alcohol, other drugs, music, fragrance, and sensuality in secular and religious areas of Egyptian life, largely but not exclusively during the New Kingdom, ca. 1500 to 1000 B.C. The ancient attitudes towards these elements will be explored through the ancient textual sources in translation and the artistic representations.	3.00	20	MW 3:00-4:15PM
AS.130.341	01	H		Traditionalism vs. Orthodoxy in the Modern Era: The Case of Judaism <i>Katz, David</i> During the Modern Era in European history, the Traditionalist Jewish civilization of Europe that had evolved over many centuries went into deep crisis. The new political, social, and intellectual realities which characterized Modernity seriously challenged, overwhelmed, and indeed threatened to destroy the Jewish Traditionalist culture and society. In response, different Traditionalist thinkers and communities evolved a number of strategies for surviving in a modern environment, strategies that unexpectedly transformed Traditionalism into something different, which came to be called Orthodox Judaism. This course explores this process of transformation, which has had an important impact on Jewish life in the modern and post-modern eras. Cross-listed with Jewish Studies	3.00	100	TTh 9:00-10:15AM
AS.130.353	01	HNS		Space Archaeology: An Introduction to Satellite Remote Sensing, GIS and GPS <i>Harrower, Michael James</i> This course introduces technologies archaeologists use to map ancient landscapes. These include Geographic Information Systems (GIS) mapping software, advanced Global Positioning System (GPS) receivers, and various types of satellite imagery. Taught together with 131.653	3.00	21	TTh 9:00-10:15AM
AS.130.371	01	H		Ritual and Magic in Ancient Egypt <i>Fraser, Meredith Anne</i> This course will serve to introduce students to the study of religion, ritual, and magic through the lens of a specific culture: ancient Egypt. Throughout the course students will be introduced to ancient Egyptian culture and will interact with Egyptian texts and artifacts, including those found in the collections of The Johns Hopkins Archaeological Museum, in order to illustrate key concepts.	3.00	20	TTh 10:30-11:45AM
AS.130.374	01	HS		The Archaeology of Imaginary, Entangled, Hybrid Globalizations <i>Harrower, Michael James</i>	3.00	15	M 3:00-5:30PM

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Near Eastern Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				In this course students will read and examine two recent books, Michael Shanks' (2012) "The Archaeological Imagination", Ian Hodder's (2012) "Entangled: An Archaeology of the Relationships between Humans and Things" and critically compare them with readings on archaeologies of world systems, colonialism, hybridity, and globalization. In particular, we will examine how post-colonial social theory can inform and enhance understandings of ancient past and how it might interface with scientific, empirically oriented archaeological field research and history building. Course requirements will include a short weekly written response to the readings - no exams or term paper will be required. (Taught jointly with AS.131.674)			
AS.130.400	01	H		Intro to Middle Egyptian	3.00	16	M 1:30-2:30PM; W 1:30-3:00PM; F 1:30-2:30PM
				<i>Jasnow, Richard</i> Introduction to the grammar and writing system of the classical language of the Egyptian Middle Kingdom (ca. 2055-1650 B.C.). In the second semester, literary texts and royal inscriptions will be read. Course meets with AS.133.600			
AS.130.442	01	H		Readings - Hebrew Prose	3.00	15	TBA
				<i>Staff</i> Reading of biblical Hebrew prose, especially from the Pentateuch, Joshua, Judges, Samuel, and Kings. Cross-listed with Jewish Studies			
AS.389.205	01	H		Examining Archaeological Objects	3.00	15	M 1:30-3:50PM
				<i>Balachandran, Sanchita</i> This course considers the role of materials in the production, study and interpretation of objects by examining artifacts from the Johns Hopkins Archaeological Museum. Students will consider materials such as ceramics, stone, metal, glass, wood and textiles, and visit artists' studios to gain an understanding of historical manufacturing processes. M&S practicum course. Cross-listed with Archaeology, Near Eastern Studies, Classics, and History of Art. Class meets in the Archaeological Museum (Gilman 150).			

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Neuroscience

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.080.105	01	N		An Introduction to Neuroscience <i>Hendry, Stewart H</i> Our knowledge of brain function from the level of single molecules to human behavior continues to expand at something approaching light speed. That knowledge invades our lives every day. And decisions are made based on that knowledge from every corner of life...from physician to politician and every stop in between. This course is meant to provide a fundamental understanding of how the cells and molecules as well as the regions and systems of the brain work to have you see and hear and move and remember. The course is divided into four sections that progress from the cells of the brain and spinal cord to circuits then systems and finally behaviors. Introduction to Neuroscience is designed for any college student who has an interest in the range of disciplines we call neuroscience.	3.00		MWF 4:30-5:20PM
AS.080.250	01	NS		Neuroscience Lab <i>Gorman, Linda K</i> Prereq: (080.305 and 080.306) or 200.141 or Permission of Instructor This course will give students the "hands-on" experience of the inter-disciplinary nature of neuroscience. Students will use anatomical and neuro-physiological techniques to understand the basic underlying principles of neuroscience.	3.00	20	T 1:30-4:20PM
AS.080.250	02	NS		Neuroscience Lab	3.00	20	Th 1:30-4:20PM
AS.080.250	03	NS		Neuroscience Lab	3.00	20	F 1:30-4:20PM
AS.080.305	01	N		The Nervous System I <i>Hendry, Stewart H</i> "No Freshmen" Prereq: 080.203 or 200.141 or 050.203 or 080.105 or Permission - The Nervous System is a fully integrated, two-semester course that surveys the cellular and molecular biology of neurons as well as the structure and function of the nervous system. Cross-listed with Biology.	3.00	196	TTTh 1:30-2:45PM
AS.080.310	01	N		Synaptic Function and Plasticity <i>Kirkwood, Alfredo</i> Biochemistry (020.305) & Cell Biology (020.306) or 080.304 The function of the nervous system is based on synaptic transmission between neurons. Synapses are not static structures, but dynamically change with experience. Experience-dependent synaptic plasticity not only allows proper development of the nervous system in tune with the environment, but also is the basis for learning and memory. This course will cover the structure and function of synapses, and how they are altered by experience to encode information.	3.00	30	WF 3:00-4:15PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.080.324	01			Neuroscience Journal Club <i>Staff</i> Open to Neuroscience and Behavioral Biology Sophomores, Juniors and Seniors. Classic Journal Club course where the students will read and discuss and review articles on differing topics depending on student interests. No Pre-requisites	1.00		TBA
AS.080.330	01	N	W	Brain Injury & Recovery <i>Gorman, Linda K</i> Prereq: (080.305 & 080.306) or (020.312 and 020.306) or (200.141 and 020.306) or Permission of Instructor. This course investigates numerous types of brain injuries and explores the responses of the nervous system to these injuries. The course's primary focus is the cellular and molecular mechanisms of brain injury and the recovery of function. Discussions of traumatic brain injury, stroke, spinal cord, and tumors, using historical and recent journal articles, will facilitate students' understanding of the current state of the brain injury field. Cross-listed with Psychological and Brain Sciences and Behavioral Biology	3.00	30	WF 10:30-11:45AM
AS.080.345	01	N		Great Discoveries in Neuroscience <i>Baraban, Jay M</i> Prereqs: 080.305 and 080.306 or 020.306 or 020.312 or Permission of Instructor This course examines the historical and intellectual context of selected, key advances in neuroscience, how they were made and the impact they had on an understanding of the nervous system. Particular attention will be paid to advances in cellular and molecular neuroscience. Among the topics covered will be the discovery of monoamine neurotransmitters and of endocannabinoids, the role of neurotrophins in neural development, and prion-based diseases of the brain.	3.00	30	TTh 3:00-4:15PM
AS.080.355	01	N		Visual System <i>Hendry, Stewart H</i> Prereqs: 080.306 or 020.306 or Permission From outer segments of photoreceptors to the Fusiform Face Area of the cerebral cortex we have come to understand how the visual system works at each of many fundamental levels. This course examines the basis for perception of visible objects at each of these levels. We will use the secondary literature (scientific reviews) to accent the hard-won truths about visual system functional organization and to highlight ongoing controversies. Students will be lead through carefully chosen reviews in a series of lectures and written summaries prepared by faculty. Three exams and a final exam will test students not on their memorization of minutiae but on their understanding of fundamental principles.	3.00	30	MW 6:00-7:15PM
AS.080.360	01	N		Diseases & Disorders of the Nervous System <i>Mckhann, Guy M</i>	3.00	100	TTh 4:30-5:45PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: (580.421 and 580.422) or (020.305 and 020.306) or (080.305 and 080.306) or by permission. This class will use lectures, readings and presentations of filmed clinical examinations to outline the causes and treatments of neurological diseases and disorders. We will begin with diseases of the peripheral nervous system and proceed in steps to examining various forms of mental retardation and a variety of neuropsychiatric disorders.			
AS.080.400	01	NS		Research Practicum: Language Disorders <i>Rapp, Brenda C</i> This course provide the opportunity to learn about adult aphasia; language disorders which are one of the most common consequence of stroke. You will receive training in Supportive Communication Techniques and work as a communication partner with an individual with aphasia for two hours per week. Three class meetings for orientation and reading assignments will be held on campus; training and practicum will be conducted at a local aphasia support center. Transportation required. A valid driver's license for zip car; use of public transportation or van certification for student van driver.	2.00	2	TBA
AS.080.401	01			Research Practicum: KEEN (Kids Enjoying Exercise Now) <i>Gorman, Linda K</i> KEEN (Kids Enjoying Exercise Now) This is a one (1) credit S/U course, organized by the Undergraduate Neuroscience Program Committee. This course provides the opportunity to learn and interact with children who have neurological disabilities, including autism, cerebral palsy and Down syndrome in weekend exercise and recreational activities. You will receive a profile for the KEEN athlete that you will be paired with during a session. You will receive initial training and then volunteer three (3) hours per week for five (5) weeks on consecutive Sundays during the first or second half of the semester. One class meeting for orientation will be held on campus; one exit meeting will be held on campus; practicum will take place at KEEN centers in Maryland. Transportation will be provided.	1.00	10	S 11:15AM-4:15PM
AS.080.401	02			Research Practicum: KEEN (Kids Enjoying Exercise Now)	1.00	10	S 11:15AM-4:15PM
AS.080.401	03			Research Practicum: KEEN (Kids Enjoying Exercise Now)	1.00	10	S 11:15AM-4:15PM
AS.080.402	01			Teaching Practicum: Making Neuroscience Fun (MNF) <i>Gorman, Linda K</i>	1.00	10	M 7:30-11:30AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This is a one (1) credit S/U course organized by the Undergraduate Neuroscience Program Committee. Making Neuroscience Fun (MNF) is a community outreach program which brings age-appropriate interactive presentations about the brain and nervous system to Baltimore City and County elementary school students. MNF is an effort aimed at fostering appreciation for science in general, emphasizing the importance of the brain and the nervous system in everyday life, and enhancing the science curriculum in Baltimore's City and County schools. You will receive initial training and then volunteer four (4) hours per week for four (4) weeks. One class meeting for orientation will be held on campus; one exit meeting will be held on campus; the practicum will take place at Baltimore City and County Schools. Students willing to drive are encouraged to register. Zip Cars will be provided.			
AS.080.402	02			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	T 7:30-11:30AM
AS.080.402	03			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	W 7:30-11:30AM
AS.080.402	04			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	Th 7:30-11:30AM
AS.080.402	05			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	F 7:30-11:30AM
AS.080.402	06			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	M 11:30AM-4:00PM
AS.080.402	07			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	T 11:30AM-4:00PM
AS.080.402	08			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	W 11:30AM-4:00PM
AS.080.402	09			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	Th 11:30AM-4:00PM
AS.080.402	10			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	F 11:30AM-4:00PM
AS.080.411	01	N		Advanced Sem:Neuroscience I <i>Baraban, Jay M</i> For students in the first semester of the BA/MS Program Perm. Req'd.	3.00	15	TBA
AS.080.412	01	N		Adv Sem:Neuroscience II <i>Baraban, Jay M</i> For students in the 2nd semester of the BA/MS Program Perm. Req'd.	3.00	15	TBA
AS.080.413	01	N		Adv Sem: Neuroscience III <i>Baraban, Jay M</i> For students in the 3rd semester of the BA/MS Program Perm. Req'd.	3.00	15	TBA
AS.200.141	01	NS		Foundations of Brain, Behavior and Cognition <i>Gorman, Linda K</i> Formerly listed as Introduction to Physiopsychology. A survey of neuropsychology relating the organization of behavior to the integrative action of the nervous system. Cross-listed with Behavioral Biology and Neuroscience.	3.00	250	TTh 9:00-10:15AM
AS.200.308	01	NS		Neurobiology of Learning and Memory	3.00		WF 9:00-10:15AM

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				<p><i>Yassa, Michael</i> Prereqs: 200.370 or 200.141 or 080.305/306 or 020.306 This course is an advanced survey of the scientific study of learning and memory. An interdisciplinary approach is used to integrate the state of the field across levels from the cellular-molecular basis of synaptic plasticity to functional circuitry implicated in learning to memory systems in the brain. The course is designed to provide a deep understanding of the outstanding issues and current debates in learning and memory research with a specific emphasis on animal models. This is an interactive lecture/seminar course with active student participation. Cross-listed with Neuroscience</p>			
AS.200.344	01	NS		<p>Behavioral Endocrinology <i>Ball, Gregory Francis</i> Prereq:(AS.200.141 OR AS.080.305) OR (AS.020.151 & AS.020.152) OR (AS.020.305 & AS.020.306) or Perm. Req'd. - An examination of the effects of hormones on behavior in non-human and human animals. Topics will include the effects of hormones on sexual differentiation, reproductive behavior, parental behavior, homeostasis and biological rhythms, regulation of body weight, learning and memory. Cross-listed with Behavioral Biology and Neuroscience</p>	3.00	70	TTh 9:00-10:15AM

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Philosophy

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.150.111	01	H	W	Philosophic Classics <i>Moyar, Dean</i> The course introduces students to philosophy by critically examining selected texts in the Western philosophical tradition. Philosophers whose ideas will be examined include Plato, Descartes, Kant and Nietzsche.	3.00	20	MW 12:00-12:50PM; F 12:00-12:50PM
AS.150.111	02	H	W	Philosophic Classics	3.00	20	MW 12:00-12:50PM; F 12:00-12:50PM
AS.150.111	03	H	W	Philosophic Classics	3.00	20	MW 12:00-12:50PM; F 12:00-12:50PM
AS.150.111	04	H	W	Philosophic Classics	3.00	20	MW 12:00-12:50PM; F 1:30-2:20PM
AS.150.111	05	H	W	Philosophic Classics	3.00	20	MW 12:00-12:50PM; F 2:00-2:50PM
AS.150.111	06	H	W	Philosophic Classics	3.00	20	MW 12:00-12:50PM; F 3:00-3:50PM
AS.150.113	01	H		Objectivity <i>Goldberg, Nicholas Hantman</i> Freshmen Only. This course examines the notion of objectivity and challenges to it. Its topics include the status of objective facts and beliefs, the structure of social reality, and rational disagreement. Dean's Prize Teaching Fellows	3.00	18	W 4:00-7:00PM
AS.150.191	01	H	W	Freshman Seminar: Ethical Topics in Plato <i>Theunissen, L Nandi</i> The class takes a problem-oriented approach to select dialogues in Plato. Central questions will include: the nature of motivation, and in particular, whether it is true that everyone desires the good; and the role of knowledge in leading a good life, in particular, whether it is true that that virtue is knowledge. We will focus on Ion, Apology, Euthyphro, the Meno, and the ethical books of the Republic.	3.00	20	TTh 12:00-1:15PM
AS.150.192	01	H		Freshman Seminar: Self and Self-Knowledge <i>Williams, Meredith</i>	3.00	20	W 1:30-4:00PM
AS.150.193	01	H	W	Philosophy of Language Seminar: Proper Names and Definite Descriptions <i>Staff</i> In talking with each other, we often use proper names like 'Juliet' and definite descriptions like 'The most beautiful fresco in Italy' to pick out persons and objects in our world. But what do these expressions mean exactly? In this seminar, we'll slowly and carefully work through some classic philosophical texts that address this issue. These texts will provide an introduction to the philosophy of language, and to analytic philosophy in general.	3.00	20	TTh 9:00-10:15AM
AS.150.201	01	H		Intro to Greek Philosophy <i>Bett, Richard</i> A survey of the earlier phase of Greek philosophy. Socrates, Plato, and Aristotle will be discussed, as well as two groups of thinkers who preceded them, usually known as the pre-Socratics and the Sophists.	3.00	20	F 10:00-10:50AM; MW 10:00-10:50AM
AS.150.201	02	H		Intro to Greek Philosophy	3.00	20	MW 10:00-10:50AM; W 2:00-2:50PM
AS.150.201	03	H		Intro to Greek Philosophy	3.00	20	F 10:00-10:50AM; MW 10:00-10:50AM
AS.150.201	04	H		Intro to Greek Philosophy	3.00	20	MW 10:00-10:50AM; W 3:00-3:50PM
AS.150.219	01	H	W	Intro to Bioethics <i>Bok, Hilary</i>	3.00	20	F 12:00-12:50PM; MW 12:00-12:50PM

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				Introduction to a wide range of moral issues arising in the biomedical fields, e.g. physician-assisted suicide, human cloning, abortion, surrogacy, and human subjects research. Cross listed with Public Health Studies.			
AS.150.219	02	H	W	Intro to Bioethics	3.00	20	F 12:00-12:50PM; MW 12:00-12:50PM
AS.150.219	03	H	W	Intro to Bioethics	3.00	20	W 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	04	H	W	Intro to Bioethics	3.00	20	W 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	05	H	W	Intro to Bioethics	3.00	20	F 12:00-12:50PM; MW 12:00-12:50PM
AS.150.219	06	H	W	Intro to Bioethics	3.00	20	F 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	07	H	W	Intro to Bioethics	3.00	20	W 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	08	H	W	Intro to Bioethics	3.00	20	W 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	09	H	W	Intro to Bioethics	3.00	20	F 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	10	H	W	Intro to Bioethics	3.00	20	F 2:00-2:50PM; MW 12:00-12:50PM
AS.150.235	01	H		Philosophy of Religion <i>Gross, Steven</i> Can one prove or disprove the existence of God? What is the relation between reason and faith? Are science and religion at odds with one another? We will consider historically significant discussions of these questions (for example, by Plato, Anselm, Aquinas, Pascal, Hume, and Kierkegaard) as well as important contemporary writings (for example, by Adams, Boyer, Plantinga, and Van Inwagen).	3.00	20	MW 11:00-11:50AM; F 10:00-10:50AM
AS.150.235	02	H		Philosophy of Religion	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.150.235	03	H		Philosophy of Religion	3.00	20	MW 11:00-11:50AM; F 12:00-12:50PM
AS.150.235	04	H		Philosophy of Religion	3.00	20	MW 11:00-11:50AM; F 1:30-2:20PM
AS.150.245	01	H		Introduction to Philosophy of Mind <i>Williams, Meredith</i> This is an introduction to the central problems of philosophy of mind: the mind-body problem and the problem of self-knowledge. Of particular interest in contemporary work is the relation of mind and brain and whether, or how, we acquire self-knowledge.	3.00	15	MW 10:00-10:50AM; F 9:00-9:50AM
AS.150.245	02	H		Introduction to Philosophy of Mind	3.00	15	MW 10:00-10:50AM; F 10:00-10:50AM
AS.150.245	03	H		Introduction to Philosophy of Mind	3.00	15	MW 10:00-10:50AM; F 11:00-11:50AM
AS.150.245	04	H		Introduction to Philosophy of Mind	3.00	15	MW 10:00-10:50AM; F 12:00-12:50PM
AS.150.312	01	H		Philosophy and Complexity <i>Guralp, Genco</i>	3.00	20	TTh 1:30-2:45PM
AS.150.417	01	H		Kant's 'Critique Of Pure Reason' <i>Forster, Eckart</i> An in-depth study of Kant's most important work, one of the great classics of modern philosophy.	3.00	20	TTh 9:00-10:15AM
AS.150.421	01	HQ		Mathematical Logic <i>Rynasiewicz, Robert</i> This is the first semester of a two semester course in mathematical logic. The first semester covers the syntax and semantics of sentential and predicate logic, proof, entailment, completeness.	3.00		TTh 10:30-11:45AM
AS.150.439	01	H		Epistemology <i>Achinstein, Peter</i>	3.00		TTh 10:30-11:45AM

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				Is knowledge (or even strong evidence) required, or possible, in science and in philosophy? We will focus on whether standard forms of nondemonstrative reasoning are justified, how if at all one can gain knowledge of the observable and unobservable world, whether and how theories in philosophy can be established, and what to do in science and philosophy when you can't prove or get strong evidence for your theory.			
AS.150.476	01	H	W	Philosophy and Cognitive Science <i>Gross, Steven</i> Thought and Perception What is the relationship between thought and perception? We will address this question through contemporary readings in both psychology and philosophy. Included among the specific questions to be addressed: do the terms, 'perception' and 'cognition' designate functionally distinct parts of the mind? To what extent is conscious experience (for example, how things look) influenced by changes in belief, expectations, and motivation? To what extent are we capable of observation that is independent of belief, and what is the role of perceptual evidence in scientific theorizing? Is there a level of visual processing that is encapsulated from higher cognition? What role does language play in how we see? What role does/can attention play in mediating between cognition and perception? Readings from Fodor, Pylyshyn, Siegal, Churchland, Bargh, Balceris, and others. This class will meet jointly with Professor Flombaum's 200.316 and 200.616. Enrollment off the waiting list only with instructor's permission.	3.00	15	W 1:30-3:50PM
AS.150.494	01	H		Descartes <i>Melamed, Yitzhak Yohanan</i> The course is an introduction to the philosophy of Rene Descartes. We will read most of his main philosophical works, and part of his correspondence. The class is open to both undergraduate and graduate students.	3.00	20	TTh 10:30-11:45AM
AS.150.496	01	H		Topics in the Theory of Value <i>Theunissen, L Nandi</i> We ask a basic question in value theory: what is it for something to be good, or of value? Is it for something to instantiate the simple value property 'good'? Can goodness be identified with some natural property, perhaps, the property 'pleasant', or some dispositional property, perhaps, 'what we desire to desire'? Is goodness a relation between some object, state of affairs, or activity and a subject, so that the good is benefit? On the other hand, are reasons and not values primitive in value theory, so that we should theorize about the good in terms of appropriate responses to it? We will read classic works by G. E. Moore, Peter Geach, Judith Jarvis Thomson, Connie Rosati, Nicholas	3.00	20	W 2:00-4:30PM
AS.150.497	01	H		Kant and the Early Moderns <i>Forster, Eckart</i>	3.00	20	Th 2:00-4:00PM
AS.150.498	01	HQ		Modal Logic and Its Applications <i>Staff</i>	3.00	20	TTh 3:00-4:15PM

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				Background in First-Order Logic. In the first part of the course, we'll investigate the theory of modal logic, considering its syntax, semantics, and proof theory. We'll then turn to some its philosophical applications: epistemic logic, counterfactuals, deontic logic, intuitionistic logic, and the metaphysics of time.			
AS.211.265	01	H		Panorama of German Thought <i>Egginton, William</i> Taught in English. German thought is a broad intellectual tradition that encompasses works in an astonishing number of fields including philosophy, aesthetics, sociology, epistemology, psychology, anthropology, history, religious studies, and cultural analysis. The most prominent representatives of this tradition include Luther, Leibniz, Kant, Humboldt, Hegel, Nietzsche, Marx, Warburg, Freud, Benjamin, Kracauer, Weber, Simmel, Cassirer, Auerbach, Adorno, Arendt, Heidegger, and Luhmann. Indeed current approaches to understanding cultural, historical, and social phenomena as well as literary and artistic forms would not have been possible without the German intellectual tradition which, beginning with the Enlightenment, emphasized the role of the subject in constituting objects of knowledge and experience. This survey course will highlight important topics in German Thought, which may include the subject, consciousness and unconsciousness, Bildung and the idea of the university, the sublime and the uncanny, irony, hermeneutics and translation, the desire for knowledge, tragedy and repetition, civilization, symbolic forms and medial reproduction, memory, and authority in a historical scope.	3.00	12	W 1:30-3:50PM

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Physics & Astronomy

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.171.101	01	EN		Gen Physics:Phys Sci Maj I <i>Neufeld, David A</i> One-year course in general physics covering mechanics, heat, sound, electricity and magnetism, optics, and modern physics. Midterm exams for every section are given during the 8 AM section time! Accordingly, students registering for sections at times other than 8 AM must retain availability for 8 AM sections as needed.	4.00	24	F 8:00-8:50AM; TTh 10:30-11:45AM
AS.171.101	02	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 8:00-8:50AM; TTh 10:30-11:45AM
AS.171.101	03	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 9:00-9:50AM; TTh 10:30-11:45AM
AS.171.101	04	EN		Gen Physics:Phys Sci Maj I <i>Barnett, Bruce A</i>	4.00	24	F 9:00-9:50AM; TTh 10:30-11:45AM
AS.171.101	05	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 10:00-10:50AM; TTh 10:30-11:45AM
AS.171.101	06	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 10:00AM-10:50PM; TTh 10:30-11:45AM
AS.171.101	07	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 11:00-11:50AM; TTh 10:30-11:45AM
AS.171.101	08	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 11:00-11:50AM; TTh 10:30-11:45AM
AS.171.101	09	EN		Gen Physics:Phys Sci Maj I <i>Neufeld, David A</i>	4.00	24	F 12:00-12:50PM; TTh 10:30-11:45AM
AS.171.101	10	EN		Gen Physics:Phys Sci Maj I <i>Barnett, Bruce A</i>	4.00	24	F 12:00-12:50PM; TTh 10:30-11:45AM
AS.171.102	01	EN		General Physics: Phys Sci Maj II <i>Maksimovic, Petar</i> One-year course in general physics covering mechanics, heat, sound, electricity and magnetism, optics, and modern physics. Midterm exams for every section are given during the 8 AM section time! Accordingly, students registering for sections at times other than 8 AM must retain availability for 8 AM sections as needed.	4.00	24	MWF 11:00-11:50AM; Th 8:00-8:50AM
AS.171.102	02	EN		General Physics: Phys Sci Maj II	4.00	24	MWF 11:00-11:50AM; Th 8:00-8:50AM
AS.171.102	03	EN		General Physics: Phys Sci Maj II	4.00	24	MWF 11:00-11:50AM; Th 8:00-8:50AM
AS.171.102	04	EN		General Physics: Phys Sci Maj II	4.00	24	MWF 11:00-11:50AM; Th 8:00-8:50AM
AS.171.102	05	EN		General Physics: Phys Sci Maj II	4.00	24	MWF 11:00-11:50AM; Th 8:00-8:50AM
AS.171.103	01	EN		General Physics I for Biological Science Majors <i>Kaplan, David</i> Standard calculus based physics tailored to students majoring in one of the biological sciences. Topics in modern physics and in fluid dynamics will be covered in this course. Midterm exams for every section are given during the 8 AM section time! Accordingly, students registering for sections at times other than 8 AM must retain availability for 8 AM sections as needed.	4.00	24	MWF 9:00-9:50AM; T 8:00-8:50AM
AS.171.103	02	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 9:00-9:50AM
AS.171.103	03	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 9:00-9:50AM
AS.171.103	04	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 10:30-11:20AM
AS.171.103	05	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 10:30-11:20AM

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AS.171.103	06	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 10:30-11:20AM
AS.171.103	07	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 12:00-12:50PM
AS.171.103	08	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 12:00-12:50PM
AS.171.103	09	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 12:00-12:50PM
AS.171.103	10	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 4:30-5:20PM
AS.171.105	01	EN		Classical Mechanics I <i>Armitage, Norman</i> An in-depth introduction to classical mechanics intended for physics majors/minors and other students with a strong interest in physics. This course treats fewer topics than 171.101 and 171.103 but with greater mathematical sophistication. It is particularly recommended for students who intend to take 171.201-202 or 171.309-310. Corequisites: lab 173.115, Calculus 110.108.	4.00	17	MWF 11:00-11:50AM; Th 10:30-11:20AM
AS.171.105	02	EN		Classical Mechanics I	4.00	18	MWF 11:00-11:50AM; Th 10:30-11:20AM
AS.171.107	01	EN		General Physics for Physical Sciences Majors (AL) <i>Leheny, Robert L</i> This two-semester sequence in general physics is identical in subject matter to 171.101-102, covering mechanics, heat, sound, electricity and magnetism, optics, and atomic physics, but differs in instructional format. Rather than being presented via lectures and discussion sections, it is instead taught in an "active learning" style with most class time given to small group problem-solving guided by instructors. Midterm exams for every section are given during the 8 AM section time! Accordingly, students registering for sections at times other than 8 AM must retain availability for 8 AM sections as needed. Corequisites: labs 173.111-112, Calculus 110.106-107 or 110.108-109. Prerequisite: A grade of C- or better in Physics I is required for Physics II. Restricted to Freshmen Only.	4.00	20	TTh 9:00-10:15AM; F 8:00-8:50AM
AS.171.107	02	EN		General Physics for Physical Sciences Majors (AL)	4.00	20	TTh 9:00-10:15AM; F 9:00-9:50AM
AS.171.107	03	EN		General Physics for Physical Sciences Majors (AL)	4.00	19	TTh 9:00-10:15AM; F 10:00-10:50AM
AS.171.107	04	EN		General Physics for Physical Sciences Majors (AL)	4.00	19	TTh 9:00-10:15AM; F 11:00-11:50AM
AS.171.113	01	N		Subatomic World <i>Blumenfeld, Barry J</i> Introduction to concepts of physics of the subatomic world: Symmetries, relativity, quanta, neutrinos, particles, and fields. Emphasis on ideas of modern physics, not on the mathematics. Intended for nonscience majors	3.00	44	MWF 11:00-11:50AM
AS.171.201	01	EN		Special Relativity/Waves <i>Zakamska, Nadia</i>	4.00	20	TTh 10:30-11:45AM; Th 1:30-3:00PM

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				Course continues introductory physics sequence (begins with 171.105-106). Special theory of relativity, forced and damped oscillators, Fourier analysis, wave equation, reflection and transmission, diffraction and interference, dispersion. Meets with 171.207.			
AS.171.201	02	EN		Special Relativity/Waves	4.00	20	TTh 10:30-11:45AM; Th 3:00-4:30PM
AS.171.207	01	N		Special Relativity <i>Zakamska, Nadia</i>	1.00	20	TTh 10:30-11:45AM; Th 1:30-3:00PM
				Three-week introduction to special relativity for students who elect to take 171.209 in place of 171.201.			
AS.171.207	02	N		Special Relativity	1.00	20	TTh 10:30-11:45AM; Th 3:00-4:30PM
AS.171.301	01	N		Electromag Thry II <i>Chien, Chia Ling</i>	4.00	30	TTh 9:00-10:15AM; F 10:00-10:50AM
				Static electric and magnetic fields in free space and matter; boundary value problems; electromagnetic induction; Maxwell's equations; and an introduction to electrodynamics. Prerequisites: 171.101-102 or 171.105-106; Linear Algebra and Calculus 110.201-202. Corequisite: Differential Equations 110.302.			
AS.171.303	01	N		Quantum Mechanics I <i>Kovesi-Domokos, Susan</i>	4.00	30	MWF 9:00-9:50AM; T 1:30-2:20PM
				Prereq: 171.202, 171.204, 110.113 Fundamental aspects of quantum mechanics. Uncertainty relations, Schrodinger equation in one and three dimensions, tunneling, harmonic oscillator, angular momentum, hydrogen atom, spin, Pauli principle, perturbation theory (time-independent and time-dependent), transition probabilities and selection rules, atomic structure, scattering theory.			
AS.171.309	01	N		Wave Phenomena with Biophysical Application <i>Krolik, Julian H</i>	4.00	30	MWF 1:30-2:20PM; Th 1:30-2:20PM
				Introduction to wave phenomena, primarily through study of biophysical probes that depend on the interaction of electromagnetic radiation with matter. Topics include Fourier Analysis; standing waves; sound and hearing; diffraction and crystallography; geometrical and physical optics – the physics of modern light microscopy; quantum mechanics – how living things absorb light; NMR and MRI. Occasional laboratory exercises are included.			
AS.171.312	01	N		Stat Physics/Thermodyn <i>Marriage, Tobias</i>	4.00	30	MF 1:30-2:45PM; W 1:30-2:20PM
				Undergraduate course that develops the laws and general theorems of thermodynamics from a statistical framework.			
AS.171.314	01	N		Introduction to Galaxies and Active Galactic Nuclei <i>Wyse, Rosemary</i>	3.00	25	TTh 10:30-11:45AM
				This course will introduce student to the physics of galaxies and their constituents: stars, gas, dust, dark matter and a supermassive black hole in the central regions.			
AS.171.321	01	EN		Introduction to Space Science and Technology <i>Moos, Henry Warren</i>	3.00	32	TTh 12:00-1:15PM

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				Topics include space astronomy, remote observing of the earth, space physics, planetary exploration, human space flight, space environment, orbits, propulsion, spacecraft design, attitude control and communication. Crosslisted by Departments of Earth and Planetary Sciences, Materials Science and Engineering and Mechanical Engineering. Prerequisites: Physics 171.101-102 or similar; Calculus 110.108-109. 3 credits.			
AS.171.323	01	N		Physics of Human Energy Use <i>Krolik, Julian H</i>	3.00	25	MWF 11:00-11:50AM
				Course explores the basic nature of energy and heat, the physical principles underlying how we derive energy from various sources (fossil fuels, nuclear power, solar energy, and others), and the physics of energy production's environmental consequences. Prerequisites: any one of 171.101, 171.103, or 171.105 or any one of 171.102, 171.104, or 171.106.			
AS.171.333	01	EN		Planets, Life and the Universe <i>Norman, Colin</i>	3.00	10	MWF 11:00-11:50AM
				This multidisciplinary course explores the origins of life, planets' formation, Earth's evolution, extrasolar planets, habitable zones, life in extreme environments, the search for life in the Universe, space missions and planetary protection. Meets with 171.699			
AS.171.405	01	N		Condensed Matter Phys <i>Markovic, Nina</i>	3.00	10	MW 3:00-4:15PM
				Prereq: 171.304, 110.201-202 Undergraduate course covering basic concepts of condensed matter physics: crystal structure, diffraction and reciprocal lattices, electronic and optical properties, band structure, phonons, superconductivity and magnetism.			
AS.172.203	01	N		Contemporary Phys Sem <i>Krolik, Julian H</i>	1.00	35	T 1:30-2:20PM
				Prereq: 171.101-102, 171.103-104, or 171.105-106 This seminar exposes physics majors to a broad variety of contemporary experimental and theoretical issues in the field. Students read and discuss reviews from the current literature, and are expected to make an oral or written presentation.			
AS.173.111	01	N		General Physics Lab I <i>Swartz, Morris</i>	1.00	24	M 1:30-4:20PM
				Experiments are chosen from both physical and biological sciences and are designed to give students background in experimental techniques as well as to reinforce physical principles.			
AS.173.111	02	N		General Physics Lab I	1.00	24	M 1:30-4:20PM
AS.173.111	03	N		General Physics Lab I	1.00	24	M 1:30-4:20PM
AS.173.111	04	N		General Physics Lab I	1.00	24	T 1:30-4:20PM
AS.173.111	05	N		General Physics Lab I	1.00	24	T 1:30-4:20PM
AS.173.111	06	N		General Physics Lab I	1.00	24	T 1:30-4:20PM
AS.173.111	07	N		General Physics Lab I	1.00	24	W 1:30-4:20PM
AS.173.111	08	N		General Physics Lab I	1.00	24	W 1:30-4:20PM
AS.173.111	09	N		General Physics Lab I	1.00	24	W 1:30-4:20PM

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AS.173.111	10	N		General Physics Lab I	1.00	24	Th 1:30-4:20PM
AS.173.111	11	N		General Physics Lab I	1.00	24	Th 1:30-4:20PM
AS.173.111	12	N		General Physics Lab I	1.00	24	Th 1:30-4:20PM
AS.173.111	13	N		General Physics Lab I	1.00	24	Th 9:00-11:50AM
AS.173.111	14	N		General Physics Lab I	1.00	24	M 6:00-8:50PM
AS.173.111	15	N		General Physics Lab I	1.00	24	M 6:00-8:50PM
AS.173.111	16	N		General Physics Lab I	1.00	24	T 6:00-8:50PM
AS.173.111	17	N		General Physics Lab I	1.00	24	T 6:00-8:50PM
AS.173.111	18	N		General Physics Lab I	1.00	24	T 6:00-8:50PM
AS.173.111	19	N		General Physics Lab I	1.00	24	W 6:00-8:50PM
AS.173.111	20	N		General Physics Lab I	1.00	24	W 6:00-8:50PM
AS.173.111	21	N		General Physics Lab I	1.00	24	W 6:00-8:50PM
AS.173.111	22	N		General Physics Lab I	1.00	24	Th 6:00-8:50PM
AS.173.111	23	N		General Physics Lab I	1.00	24	Th 6:00-8:50PM
AS.173.112	01	N		General Physics Lab II <i>Swartz, Morris</i> Prereq: 173.111 Coreq: 171.102; 171.104; or 171.106 Experiments are chosen from both physical and biological sciences and are designed to give students background in experimental techniques as well as to reinforce physical principles.	1.00	24	T 1:30-4:20PM
AS.173.112	02	N		General Physics Lab II	1.00	24	W 1:30-4:20PM
AS.173.112	03	N		General Physics Lab II	1.00	24	Th 1:30-4:20PM
AS.173.112	04	N		General Physics Lab II	1.00	24	T 6:00-8:50PM
AS.173.112	05	N		General Physics Lab II	1.00	24	W 6:00-8:50PM
AS.173.115	01	N		Classical Mechanics Lab <i>Swartz, Morris</i> Coreq: 171.105 Experiments chosen to complement the lecture course Classical Mechanics I, II 171.105-106 and introduce students to experimental techniques and statistical analysis.	1.00	30	M 6:00-8:50PM
AS.173.311	01	N		Mentoring in General Physics Lab <i>Swartz, Morris</i> This course provides students who have take General Physics I and II and General Physics Laboratory I and II with the opportunity to mentor new students in General Physics Laboratory I and II. Mentors collaborate General Physics laboratory Teaching Assistants to interact with students to help them to complete laboratory assignments and to master the concepts of General Physics. Mentors must have a strong background in Physics. They are expected to interact with students during one three-hour laboratory section per week and to attend the associated TA training once per week. Prerequisites: Permission of the instructor, 173.111-173.112. S/U only.	1.00	25	TBA

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AS.190.101	01	S		Intro American Politics <i>Ginsberg, Benjamin</i> This course is an introduction to government and politics through the study of the government and politics of the United States. All governments combine coercion and legitimacy. In a stable and legitimate system of government, coercion is hardly noticed by most citizens. Government comes to be seen as a source of benefits. The purpose of this course is to look behind institutions, practices, and benefits to appreciate how, for what and by whom we are governed. (AP)	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.190.101	02	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.190.101	03	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.190.101	04	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 3:00-3:50PM
AS.190.101	05	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 3:00-3:50PM
AS.190.101	06	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 3:00-3:50PM
AS.190.101	07	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; Th 9:00-9:50AM
AS.190.101	08	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; Th 9:00-9:50AM
AS.190.101	09	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; Th 3:00-3:50PM
AS.190.101	10	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; Th 3:00-3:50PM
AS.190.104	01	S		International Politics <i>Deudney, Daniel Horace</i>	3.00	20	MW 1:30-2:20PM; F 1:30-2:20PM
AS.190.104	02	S		International Politics	3.00	20	MW 1:30-2:20PM; F 1:30-2:20PM
AS.190.104	03	S		International Politics	3.00	20	MW 1:30-2:20PM; F 1:30-2:20PM
AS.190.104	04	S		International Politics	3.00	20	MW 1:30-2:20PM; F 3:00-3:50PM
AS.190.104	05	S		International Politics	3.00	20	MW 1:30-2:20PM; F 3:00-3:50PM
AS.190.104	06	S		International Politics	3.00	20	MW 1:30-2:20PM; F 3:00-3:50PM
AS.190.104	07	S		International Politics	3.00	20	MW 1:30-2:20PM; Th 9:00-9:50AM
AS.190.104	08	S		International Politics	3.00	20	MW 1:30-2:20PM; Th 9:00-9:50AM
AS.190.104	09	S		International Politics	3.00	20	MW 1:30-2:20PM; Th 3:00-3:50PM
AS.190.104	10	S		International Politics	3.00	20	MW 1:30-2:20PM; Th 3:00-3:50PM
AS.190.207	01	S		Political Freedom, Race and Resistance <i>Staff</i> This course examines core questions about the relationship between political power and political freedom. A critical investigation of how resistance to racial inequality has been expressed in political theory and political practice will illuminate and contest the limits and possibilities for political freedom today.	3.00	35	TTh 12:00-1:15PM
AS.190.210	01	S		The American Congress <i>Schlozman, Daniel</i> An introduction to legislative politics and policymaking in the US, and their place in the political system. Special attention to issues of representation, and the consequences of institutional design.	3.00	20	MW 12:00-12:50PM; F 12:00-12:50PM
AS.190.210	02	S		The American Congress	3.00	20	MW 12:00-12:50PM; F 1:30-2:20PM
AS.190.225	01	S		Introduction to International Studies <i>Grovogui, Siba N</i>	3.00	20	MW 9:00-9:50AM; F 9:00-9:50AM
AS.190.225	02	S		Introduction to International Studies	3.00	20	MW 9:00-9:50AM; F 9:00-9:50AM
AS.190.225	03	S		Introduction to International Studies	3.00	20	MW 9:00-9:50AM; F 3:00-3:50PM
AS.190.225	04	S		Introduction to International Studies	3.00	20	MW 9:00-9:50AM; F 3:00-3:50PM

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AS.190.226	01	S		Global Governance <i>Allan, Bentley</i> Global problems like poverty, financial instability, human rights abuses, and climate change threaten both international order and human well-being. In the absence of a world state, these problems must be addressed by an increasingly complex, transnational network of organizations and social groups. First, we will aim to understand and explain how global problems are governed through detailed case studies of International Organizations and Non-Governmental Organizations such as the United Nations, World Bank, Intergovernmental Panel on Climate Change, Amnesty International and more. Second, we will critically evaluate the successes and failures of these organizations and explore the possibilities for improving democratic governance at the global level.	3.00	20	TTh 9:00-9:50AM; F 9:00-9:50AM
AS.190.226	02	S		Global Governance	3.00	20	TTh 9:00-9:50AM; F 9:00-9:50AM
AS.190.226	03	S		Global Governance	3.00	20	TTh 9:00-9:50AM; F 9:00-9:50AM
AS.190.226	04	S		Global Governance	3.00	20	TTh 9:00-9:50AM; F 3:00-3:50PM
AS.190.281	01	S		Virtue, Labor, and Power (Classics of Political Thought II) <i>Chambers, Samuel Allen</i> This is not a class in the history of political thought. Instead, it is an opportunity for a selective, circumscribed, but very focused engagement with some of the most powerful and provocative texts in that history. We will read selections from six thinkers (Socrates, Machiavelli, Locke, Marx, Nietzsche, and Foucault), focusing on three themes (Virtue, Labor, and Power). These texts have all profoundly shaped the way we think about politics, and they are texts that resonate with our own political problematics today. (PT)	3.00	20	MW 3:00-3:50PM; F 3:00-3:50PM
AS.190.281	02	S		Virtue, Labor, and Power (Classics of Political Thought II)	3.00	20	MW 3:00-3:50PM; F 3:00-3:50PM
AS.190.281	03	S		Virtue, Labor, and Power (Classics of Political Thought II)	3.00	20	MW 3:00-3:50PM; F 9:00-9:50AM
AS.190.281	04	S		Virtue, Labor, and Power (Classics of Political Thought II)	3.00	20	MW 3:00-3:50PM; F 9:00-9:50AM
AS.190.327	01	S		Politics of Information <i>Marlin-Bennett, Renee</i> Considers global and comparative politics of information, information technologies, and the Internet. Examines governance of information (ownership of information, rights to information, privacy) and governance of information technologies (domain names, social media websites, etc.).	3.00	25	TTh 3:00-4:15PM
AS.190.331	01	S		Race and Racism in Comparative Perspective <i>Hanchard, Michael</i>	3.00	20	TTh 10:30-11:45AM

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				(formerly 'Comparative Racial Politics') Students will learn to utilize qualitative, interpretive methods of comparative politics to examine dynamics of racial and/or ethnic politics in the nation-states of Cuba, Brazil, Britain and France, Germany, and the United States. Readings will emphasize the role of the state, political economy, national culture, racist ideologies and anti-racist politics in the formation, maintenance and transformation of conditions of race-based inequalities. Students will also become familiar with theories and concepts of race and ethnicity, and the histories of social movements in the aforementioned societies founded, in part, on racial and/or ethnic identification as a response to inequality.			
AS.190.333	01	S		Amer Constitutional Law <i>Staff</i> This course covers enduring debates about the way the Constitution has structured the U.S. government and about which powers the Constitution assigns to the federal government and to the states. We will examine these debates in the context of American political history and thought by studying the writings of prominent participants, and landmark Supreme Court cases.	3.00	25	MW 1:30-2:20PM; F 1:30-2:20PM
AS.190.333	02	S		Amer Constitutional Law	3.00	25	MW 1:30-2:20PM; F 9:00-9:50AM
AS.190.344	01	S	W	Seminar In Anti-Semitism <i>Ginsberg, Benjamin</i> Jews exercise a good deal of power in contemporary America.. They are prominent in a number of key industries, play important roles in the political process, and hold many major national offices. For example, though Jews constitute barely two percent of America's citizens, about one-third of the nation's wealthiest 400 individuals are Jewish and more than ten percent of the seats in the U.S. Congress are held by Jews. One recent book declared that, "From the Vatican to the Kremlin, from the White House to Capitol Hill, the world's movers and shakers view American Jewry as a force to be reckoned with." Of course, Jews have risen to power in many times and places ranging from the medieval Muslim world and early modern Spain through Germany and the Soviet Union in the 20th century. In nearly every prior instance, though, Jewish power proved to be evanescent. No sooner had the Jews become "a force to be reckoned with" than they found themselves banished to the political margins, forced into exile or worse. Though it may rise to a great height, the power of the Jews seems ultimately to rest on a rather insecure foundation. Cross-listed with Jewish Studies	3.00	15	W 1:30-3:50PM

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AS.190.384	01	S		Urban Politics & Policy <i>Spence, Lester</i> An analysis of public policy and policy-making for American Cities. Special attention will be given to the subject of urban crime and law enforcement, poverty and welfare, and intergovernmental relations. (AP) Cross-listed with Africana Studies	3.00	40	M 3:00-5:50PM
AS.190.398	01	S	W	Politics of Good & Evil <i>Connolly, William E</i> One previous class in Political Theory recommended. A seminar in elemental theory exploring contending conceptions of good and evil as they appear in Sophocles, The Book of Job, Genesis, Augustine, Friedrich Nietzsche and William James. Elemental theory probes the dicey relations between evil and creeds already installed in us. It also presupposes previous work in theory. This is a discussion seminar, in which students make class presentations on assigned texts and write two 12 page papers.	3.00	15	M 1:30-3:50PM
AS.190.405	01	S	W	Food Politics <i>Sheingate, Adam</i> Juniors, Seniors, and Graduate Students Only This course examines the politics of food at the local, national, and global level. Topics include the politics of agricultural subsidies, struggles over genetically modified foods, government efforts at improving food safety, and issues surrounding obesity and nutrition policy. (AP & CP) Cross-listed with Public Health Studies	3.00	15	T 1:30-3:50PM
AS.190.411	01	S	W	Environment and Development in the Third World <i>Keck, Margaret E</i> A research seminar examining the politics of environmental issues in developing countries, with special focus on Latin America.	3.00	20	Th 1:30-3:50PM
AS.190.412	01	S		CP Political Violence <i>David, Steven R</i> An examination of the ways in which violence has been used to secure political ends. Topics include terrorism, assassination, genocide, coups, rebellions and war itself. Students examine what makes types of political violence unique and what unites them. (Formerly 190.372)	3.00	15	Th 3:00-5:50PM
AS.190.425	01	S	W	The New Deal and American Politics <i>Schlozman, Daniel</i> This seminar explores how the New Deal, the fundamental moment in the post-Civil War United States, has structured politics and government across a variety of domains ever since. Topics include presidential leadership, executive power, political parties, labor, race, and the welfare state.	3.00	20	W 1:30-3:50PM
AS.190.433	01	S		Constructivism: How Ideas Shape International Relations <i>Allan, Bentley</i> Can not have taken 190.304.	3.00	20	TTh 1:30-2:45PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.190.435	01	S	W	Law and Literature <i>Culbert, Jennifer</i> This course will examine the relationship between law and literature. As many have observed, law and literature have much in common as well as much to teach each other. Topics this course will discuss include practices of interpretation, issues of authority, the rule of law, and the power of narrative. In addition to reading essays by scholars in the field, students will read a selection of judicial opinions, short stories, novels, and plays. This writing intensive course is limited to undergraduates who have taken at least one "Classics of Political Thought" course (190.280, 190.281, or 190.282).	3.00	15	TTh 9:00-10:15AM
AS.190.440	01	S		European Politics in Comparative Perspective <i>Jabko, Nicolas</i> Juniors and Seniors only. Europe has been in a sense the first testing ground for theories of comparative politics, but many outsiders now see Europe as a pacified and somewhat boring place. This course will question conventional wisdom through an examination of European politics in historical and cross-national perspective. We will apply the comparative method to the study of European politics today, and conversely we will ask what Europe tells us more generally about politics. We will see that Europe is still a locus of intense conflict as well as remarkably diverse experimentation. Topics will include: political, legal, and economic governance; the evolution of democracy and fundamental rights, the welfare state, class stratification, immigration and race, the role of religion; European integration and globalization.	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.190.440	02	S		European Politics in Comparative Perspective	3.00	20	MW 11:00-11:50AM; F 9:00-9:50AM
AS.191.109	01	S		American Politics and its Discontents <i>Anfinson, Kellan K</i> Dean's Prize Freshmen Seminar	3.00	25	TTh 9:00-10:15AM
AS.191.110	01	S	W	International Relations Theory and it's margins: the case of East Asia <i>Koyama, Hitomi</i> Dean's Prize Freshmen Seminar	3.00	20	M 4:00-6:50PM
AS.191.335	01	S		Arab-Israeli Conflict (IR) <i>Freedman, Robert</i>	3.00	40	T 4:00-6:30PM

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				The course will focus on the origin and development of the Arab-Israeli conflict from its beginnings when Palestine was controlled by the Ottoman Empire, through World War I, The British Mandate over Palestine, and the first Arab-Israeli war (1947-1949). It will then examine the period of the Arab-Israeli wars of 1956, 1967, 1973, and 1982, the Palestinian Intifadas (1987-1993 and 2000-2005); and the development of the Arab-Israeli peace process from its beginnings with the Egyptian-Israeli treaty of 1979, the Oslo I and Oslo II agreements of 1993 and 1995, Israel's peace treaty with Jordan of 1994, the Road Map of 2003; and the periodic peace talks between Israel and Syria. The conflict will be analyzed against the background of great power intervention in the Middle East, the rise of political Islam and the dynamics of Intra-Arab politics, and will consider the impact of the Arab Spring.			
AS.191.345	01	S		Russian Foreign Policy (IR) <i>Freedman, Robert</i>	3.00	35	W 4:00-6:30PM
				This course will explore the evolution of Russian Foreign Policy from Czarist times to the present. The main theme will be the question of continuity and change, as the course will seek to determine to what degree current Russian Foreign Policy is rooted in the Czarist(1613-1917) and Soviet(1917-1991) periods, and to what degree it has operated since 1991 on a new basis. The main emphasis of the course will be on Russia's relations with the United States and Europe, China, the Middle East and the countries of the former Soviet Union--especially Ukraine, the Baltic States, Transcaucasia and Central Asia. (IR) The course will conclude with an analysis of the Russian reaction to the Arab Spring and its impact both on Russian domestic politics and on Russian foreign policy.			
AS.191.352	01	S	W	American Constitutionalism and War Making <i>Fried, Ryan Philip</i>	3.00	20	W 1:30-3:50PM
				Interstate anarchy is hostile to limited government constitutions given various power concentrations necessary for state survival. While the American Union created in 1787 accounted for this in various ways by effectively ending the balance of power on the continent, a second important feature of the founding period, effective distance from Europe ended with the industrial revolution and the advent of nuclear era technology. We explore how the United States adapted its security structures to these geopolitical changes.			
AS.191.363	01	S	W	Impasse Matters: The Politics of Unmaking Laws <i>Shomura, Chad</i>	3.00	15	T 4:30-6:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				What happens when our images of the good life seem to be harming us? When letting go of hopes, relationships, and attachments is so hard or painful that we cling to them and risk being destroyed? What might we do so that unmaking our lives becomes preferable to keeping a damaging one? This course explores such impasse matters, where political and personal life meet in struggles to endure, change, and thrive. Specific impasses that might arise in our discussions include the American Dream, intimacy, and climate change. We will engage readings and films of diverse genres to grapple with the threat and promise of the unmaking of our lives.			
AS.191.364	01	S		Free Expression in the 21st Century <i>Jones, Gary William</i>	3.00	20	TTh 3:00-4:15PM
				This course will explore the theoretical underpinnings of free expression protection and some of the key contemporary debates that surround free expression in an age of mobilization, globalization, and digitization.			
AS.191.375	01	S		Thinking Organizationally about Politics <i>Teles, Steven Michael</i> Aitchison Students Only	1.50		F 9:00-11:30AM
AS.191.376	01	S	W	Public Policy Writing <i>Wagner Hill, Kathryn</i> Aitchison Students Only	1.50		M 5:30-7:00PM
AS.191.379	01	S		Thinking Strategically <i>Mueller, Karl</i> Aitchison Students Only	1.50		Th 5:30-8:30PM
AS.191.382	01	S		Thinking Economically <i>Dockins, Paul</i> Aitchison Students Only	1.50		F 1:30-4:00PM
AS.191.384	01	S		Thinking Legally <i>Greve, Michael S</i> Aitchison Students Only	1.50		Th 5:30-8:30PM
AS.191.388	01			Ethnic Politics <i>Chidambaram, Soundarya</i>	3.00	25	MW 3:00-4:15PM
				Ethnic conflict has become one of the major sources of inter-state and within-state strife in many regions of the world today. This course is designed to provide a broad overview of the relationship between ethnicity and politics. The purpose is to introduce key concepts, debates and contemporary research in the field of ethnic politics, and to develop an understanding of how political institutions can influence the course and consequences of ethnic conflict. There are no text books required for this course. (CP)			

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.191.397	01	S	W	Freedom <i>Gray, Stuart</i> This course will explore the concept of freedom as it develops in modern and contemporary political thought. We will examine contending conceptions of public (civic republican) and private (liberal) freedom, robust subjectivism, constraints of disciplinary power, and anarchism. This course concludes by tracking elements of these conceptions into contemporary American life. We will read the works of: Rousseau, J. S. Mill, Nietzsche, Foucault, Goldman, and Franzen.	3.00	25	TTh 1:30-2:45PM
AS.191.398	01	S	W	The International Politics of Genocide <i>Meiches, Benjamin Aaron</i>	3.00	25	TTh 1:30-2:45PM
AS.191.402	01	QS		Numbers, Pictures, Politics <i>Rom, Mark</i> Aitchison students only	3.00	15	W 5:30-8:00PM
AS.230.321	01	S	W	Revolution, Reform and the Social Inequality of China <i>Andreas, Joel</i> This course explores various aspects of social inequality in China during the Mao Zedong and the post-Mao reform eras. We will examine inequality within villages, the rural/urban divide, urban inequality, education and health policies, and gender and ethnic relations. Each of these issue areas will be tackled analytically, but the aim is also to understand what it was/is like to live in China during and after the Mao era. The course is designed for both undergraduate and graduate students. Cross-listed with East Asian Studies and International Studies (CP)	3.00	15	TTh 10:30-11:45AM
AS.310.305	01	S		Southeast Asia and US Security <i>Ott, Marvin C</i> This survey course is designed to introduce students to Southeast Asia -- the ten member countries of the Association of Southeast Asian Nations (ASEAN) plus Australia and New Zealand. Southeast Asia is an integral part of the broader region of East Asia and a geographic bridge to the Indian subcontinent (South Asia). Southeast Asia has been one of the great success stories in the saga of modernization and development of post-colonial Afro-Asia over the last six decades. Its resulting economic importance is matched by its strategic significance given the presence of imbedded jihadist networks and the emergence of China as a regional great power and aspirant superpower. Nevertheless, the region has been largely overlooked by senior foreign policy and defense officials in Washington. This course will equip students to fill that void by examining the region from the perspective of national security strategy -- broadly understood in its multiple dimensions. Students will be challenged to formulate some element of a viable U.S. national security strategy for the region.	3.00	25	T 1:30-4:00PM
AS.360.247	01	S	W	Introduction to Social Policy: Baltimore and Beyond <i>Deluca, Stefanie</i>	3.00	75	T 12:00-1:15PM; Th 12:00-1:15PM

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				<p>How can we address pressing social problems, such as inner city poverty, inequality in educational attainment among children from different backgrounds, and disparities in access to health care? Social policy refers to the programs, legislation and governmental activities that regulate access to important social, financial and institutional resources needed by members of a society to address these concerns.</p> <p>Social policy also aims to reduce inequality, especially in the areas of education, health, income, housing, neighborhoods, and employment. The study of social policy is interdisciplinary, and this course will introduce students to the basic concepts in economics, political science, and sociology relevant to the study of social problems and the programs designed to remedy them. We will cover issues of national policy importance, as well as issues specifically affecting Baltimore City and the metropolitan region. This course is open to all students, but will be required for the new Social Policy Minor. The course is also recommended for students who are interested in law school, medical school, programs in public health, and graduate school in related social science fields. Cross list with Sociology, Economics and Political Science.</p>			
AS.362.340	01	S	W	<p>Power and Racism <i>Hayes, Floyd, III.</i></p> <p>This course investigates the impact of white supremacy and anti-black racism, as a global system of power, on the political development of the United States of America.</p>	3.00	15	T 1:30-3:50PM

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Program in Latin American Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.010.105	01	H		Art of the Ancient Americas <i>Deleonardis, Lisa</i> Surveys the art of Olmec, West Mexico, Teotihuacan, Maya, and Aztec.	3.00	25	TTh 10:30-11:45AM
AS.010.389	01	H	W	The Stone and the Thread <i>Deleonardis, Lisa</i> This course examines the built environment of the Inka and considers architecture in its social, historical, and cultural contexts. Shared forms and ideas implicit in the fiber arts offer comparative points for analysis and discussion.	3.00	25	TTh 3:00-4:15PM
AS.070.285	01	HS		Understanding Aid: Anthropological Perspectives for Technology-Based Interventions <i>Cervone, Emma</i> This course combines anthropological perspectives with the discussion and examination of technology-based interventions in the field of development and aid policies, with particular focus on activities related to water resources, sanitation, and hygiene. Readings and discussions analyze some of the theoretical, historically rooted, and practical issues that challenge those who hope to provide effective aid. A key aim of this course is to provide students with better understanding of cultural, social, environmental and economic issues relevant to technical intervention in developing countries.	3.00	20	TTh 12:00-1:15PM
AS.100.439	01	HS	W	Cuban Revolution and the Contemporary Caribbean <i>Knight, Franklin</i>	3.00	18	TTh 9:00-10:15AM
AS.190.331	01	S		Race and Racism in Comparative Perspective <i>Hanchard, Michael</i> (formerly 'Comparative Racial Politics') Students will learn to utilize qualitative, interpretive methods of comparative politics to examine dynamics of racial and/or ethnic politics in the nation-states of Cuba, Brazil, Britain and France, Germany, and the United States. Readings will emphasize the role of the state, political economy, national culture, racist ideologies and anti-racist politics in the formation, maintenance and transformation of conditions of race-based inequalities. Students will also become familiar with theories and concepts of race and ethnicity, and the histories of social movements in the aforementioned societies founded, in part, on racial and/or ethnic identification as a response to inequality.	3.00	20	TTh 10:30-11:45AM
AS.210.177	01			Portuguese Elements <i>Bensabat Ott, Mary M</i>	4.00	25	MWF 11:00-11:50AM

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AS.210.277	01	H		<p>This one-year course introduces students to the basic skills in reading, writing, and speaking the language. Emphasis is placed on oral communication with, however, extensive training in written and listening skills. Class participation is encouraged from the very beginning. All classes are conducted in Portuguese. Extensive language lab is required. Students must complete both semesters with passing grades to receive credit. May not be taken on a satisfactory/unsatisfactory basis. No previous knowledge of Portuguese is required.</p> <p>Intermediate/ Advanced Portuguese <i>Bensabat Ott, Mary M</i></p> <p>More advanced training in the skills of the language with emphasis on vocabulary building, ease and fluency in the language through the use of a multifaceted approach. Materials used immerse students in the cultures of Brazil, Portugal, and Portuguese-speaking Africa, and reflect the mix of cultures at work in the contemporary Lusophone world. All classes are conducted in Portuguese. Extensive language lab is required. May not be taken on a satisfactory/unsatisfactory basis. Pre-requisites: AS.210.177/178, or placement test.</p>	3.00	12	MWF 10:00-10:50AM
AS.210.391	01	H	W	<p>Advanced Portuguese Language & Literature <i>Bensabat Ott, Mary M</i></p> <p>This third-year course focuses on reading, writing, and oral expression. Under the supervision of the instructor, students will read one or two complete works by major Brazilian, Portuguese, and/or Afro-Portuguese writers each semester, followed by intense writing and oral discussion on the topics covered. Grammar will be reviewed as necessary. Lab work is required. All classes are conducted in Portuguese. Prereq: 210.277.278 or placement exam . Permission Req'd.</p>	3.00	25	MWF 9:00-9:50AM
AS.215.451	01	H		<p>El Cine de Pedro Almodovar <i>Gonzalez, Eduardo</i></p> <p>El arte cinematográfico del gran cineasta español será estudiado a través de su obra, vista en partes selectas, obras enteras y dentro del marco escénico provisto por otras películas del cine español. Prerequisite Advance Spanish or demonstrated proficiency in the language</p>	3.00	25	M 1:30-3:45PM
AS.230.343	01	S		<p>Political Sociology of Latin America <i>von der Heydt-Coca, Magda Zonia</i></p> <p>This course provides an overview of Latin America through its historical, economic, social, and political dimensions. Emphasis will be given to the analysis of social structures: class, race and ethnicity, and the contemporary social movements. The course begins with an overview of the pre-Columbian civilizations and colonial legacies that gave rise to the multiethnic societies and the ethnic conflicts which characterize contemporary Latin America. Cross-listed with Program in Latin American Studies and International Studies (CP)</p>	3.00	20	TTh 1:30-2:45PM
AS.361.372	01	HS	W	<p>Mestizaje and Race in Latin America</p>	3.00	15	M 4:00-6:20PM

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Program in Latin American Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
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Reyes Kipp, Anaid Citalli

The course takes mestizaje as an entry point to explore racial projects of the state in Latin America and its mechanisms of exclusion and inclusion in different local settings

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Program in Museums and Society

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.040.137	01	H	W	Archaeology at the Crossroads: The Ancient Eastern Mediterranean through Objects in the JHU Archaeological Museum <i>Anderson, Emily S.K.</i> Limited to Freshmen. This seminar investigates the Eastern Mediterranean as a space of intense cultural interaction in the Late Bronze Age, exploring how people, ideas, and things not only came into contact but deeply influenced one another through maritime trade, art, politics, etc. In addition to class discussion, we will work hands-on with artifacts from the JHU Archaeological Museum, focusing on material from Cyprus. Cross-list with Museums and Society and Near Eastern Studies.	3.00	10	TTh 1:30-2:45PM
AS.100.372	01	HS		The Victorians <i>Walkowitz, Judith</i> This course focuses on the politics of everyday life, consumption, intimate relations, and concepts of the self in Victorian Britain (1837-1901). Particular attention will be devoted to Victorian visual culture, including exhibitions, built environment, decorative arts and leisure culture. Other themes include popular nationalism, class cultures, feminism and body politics, Empire and racial thought. Cross-listed with WGS and Program in Museums and Society	3.00	20	W 1:30-3:50PM
AS.389.201	01	HS		Introduction to the Museum: Past and Present <i>Rodini, Elizabeth</i> This course surveys museums, from their origins to their most contemporary forms, in the context of broader historical, intellectual, and cultural trends. Anthropology, art, history, and science museums are considered. Cross-listed with Anthropology, History, History of Art.	3.00	24	TTh 1:30-2:45PM
AS.389.205	01	H		Examining Archaeological Objects <i>Balachandran, Sanchita</i> This course considers the role of materials in the production, study and interpretation of objects by examining artifacts from the Johns Hopkins Archaeological Museum. Students will consider materials such as ceramics, stone, metal, glass, wood and textiles, and visit artists' studios to gain an understanding of historical manufacturing processes. M&S practicum course. Cross-listed with Archaeology, Near Eastern Studies, Classics, and History of Art. Class meets in the Archaeological Museum (Gilman 150).	3.00	15	M 1:30-3:50PM
AS.389.261	01	H		Curating Homewood: Trades and Training in Early Baltimore <i>Arthur, Catherine Rogers</i> Students explore early American life related to the region and the Carroll family of Homewood. Primary research and object study culminate in student-curated thematic exhibition. Optional intersession practicum experience is also possible. Cross-listed with History. M&S practicum course.	3.00	12	W 1:30-3:50PM

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Program in Museums and Society

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.389.349	01	H		Art, Museums and the Law <i>Lehmann, Walter</i> The course encourages students to consider how artistic processes and cultural institutions are shaped by legal principles and vice versa. The interplay between art, museums and the law will be explored from historical, cultural and legal perspectives using a variety of source material.	3.00	15	TTh 12:00-1:15PM
AS.389.373	01	H		Encountering the Art of South Asia: Museum Display, Theory and Practice <i>Mintz, Robert</i> Students reconsider the exhibition and interpretation of South Asian Art at the Walters Art Museum to suggest a new permanent display. Class meets at the Walters Art Museum. M&S practicum course.	3.00	12	Th 2:00-5:00PM
AS.389.390	01	H		Library / Laboratory <i>Dean, Gabrielle</i> This interdisciplinary and project-driven class investigates the library as a site of experimentation and an expression of different knowledge regimes. Material includes literary treatments of the library, historical and critical readings, guest lectures, rare materials from special collections and field work.	3.00	12	T 3:00-5:20PM
AS.389.460	01	H		Inventing the Middle Ages: Museums, Collectors and Art Historians <i>Kingsley, Jennifer Pascale</i> Investigate the history of the collection, interpretation and display of medieval art by nations, museums and private collectors. Topics range from antiquarian interest to conception of medieval sculpture as "primitive", from the use of medieval objects in nationalistic displays and from early American museums such as the Cloisters in NY to current exhibits such as the Walters. Cross-listed with History of Art.	3.00	12	W 1:30-3:50PM

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Psychological & Brain Sciences

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.050.319	01	NS		Visual Cognition <i>Park, Soojin</i> Vision is central to our daily interactions with the world: we can effortlessly navigate through a city, comprehend fast movie trailers, and find a friend in a crowd. While we take the visual experience for granted, visual perception involves a series of complicated cognitive processes beyond just opening our eyes. The goal of this course is to introduce students to the field of visual cognition, including existing theoretical frameworks and recent research findings. We will explore questions such as: How do we see the visual world? Do we see and remember correctly what's in the physical world? How many items can we keep track of and remember at a time? How is the visual system structured and what are the neural mechanisms underlying visual perception? Prerequisites: student must have taken Cognition (200.101), Introduction to Psychology (050.101), or Cognitive Neuroscience (080.203/050.203). Meets with 050.619.	3.00	45	TTh 9:00-10:15AM
AS.080.330	01	N	W	Brain Injury & Recovery <i>Gorman, Linda K</i> Prereq: (080.305 & 080.306) or (020.312 and 020.306) or (200.141 and 020.306) or Permission of Instructor. This course investigates numerous types of brain injuries and explores the responses of the nervous system to these injuries. The course's primary focus is the cellular and molecular mechanisms of brain injury and the recovery of function. Discussions of traumatic brain injury, stroke, spinal cord, and tumors, using historical and recent journal articles, will facilitate students' understanding of the current state of the brain injury field. Cross-listed with Psychological and Brain Sciences and Behavioral Biology	3.00	30	WF 10:30-11:45AM
AS.200.101	01	NS		Intro to Psychology <i>Drigotas, Stephen M</i> This course surveys all the major areas of scientific psychology, including the physiological bases of behavior; sensation and perception; learning, memory and cognition; developmental, social, and personality psychology; and psychopathology.	3.00	400	MWF 11:00-11:50AM
AS.200.132	01	S		Intro Developmentl Psych <i>Feigenson, Lisa</i> An introductory survey of human development from the prenatal period through adolescence. The developing child is examined in terms of cognitive, social, emotional, motor, and language development.	3.00	100	MWF 10:00-10:50AM

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Psychological & Brain Sciences

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.200.141	01	NS		Foundations of Brain, Behavior and Cognition <i>Gorman, Linda K</i> Formerly listed as Introduction to Physiopsychology. A survey of neuropsychology relating the organization of behavior to the integrative action of the nervous system. Cross-listed with Behavioral Biology and Neuroscience.	3.00	250	TTh 9:00-10:15AM
AS.200.204	01	S	W	Human Sexuality <i>Kraft, Chris S</i> Juniors and Seniors only within the following majors/minors: Behavioral Biology, Biology, Neuroscience, Psychological & Brain Sciences, Public Health, and the Study of Women, Gender, & Sexuality. All registration will be done during the normal registration period and you must meet all requirements to register. Course focuses on sexual development, sexuality across the lifespan, gender identity, sexual attraction and arousal, sexually transmitted disease, and the history of commercial sex workers and pornography. Formerly taught as 200.302	3.00	25	T 12:00-2:30PM
AS.200.204	02	S	W	Human Sexuality	3.00	25	T 9:00-11:30AM
AS.200.207	01	QS	W	Research Methods in Experimental Psychology <i>Egeth, Howard E</i> Prereqs: EN.550.111 (Statistical Analysis I) EN.550.112 (Statistical Analysis II) Formerly known as Lab in the Analysis of Psychological Data (LAPD). This course is an overview of research methods used in psychology, experimental designs, interpreting results in psychology, and research ethics. Each student will complete an individual research project on a topic of his/her choosing as part of the course training. The class is taught interactively through lectures (Wed) and lab sections (Fri).	3.00	20	Th 1:30-3:50PM
AS.200.207	02	QS	W	Research Methods in Experimental Psychology	3.00	20	Th 1:30-3:50PM
AS.200.207	03	QS	W	Research Methods in Experimental Psychology	3.00	20	Th 1:30-3:50PM
AS.200.207	04	QS	W	Research Methods in Experimental Psychology	3.00	20	Th 1:30-3:50PM
AS.200.207	05	QS	W	Research Methods in Experimental Psychology	3.00	20	Th 1:30-3:50PM
AS.200.212	01	S		Abnormal Psychology <i>Noonberg, Aaron R</i> A survey of the major syndromes of psychological disorders. Research and theory about the mechanisms, development, and diagnosis of psychopathology are emphasized.	3.00	200	TTh 1:30-2:45PM

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Psychological & Brain Sciences

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.200.222	01	S		Positive Psychology <i>Halberda, Justin</i> The course will review the growing field of positive psychology and will review the research on positive human attributes such as optimism, happiness, hope, resiliency, self-esteem, altruism, empathy, and forgiveness. This course will explore the research on how such positive attributes are developed and how they relate to psychological and physical well-being.	3.00	60	MWF 3:00-3:50PM
AS.200.308	01	NS		Neurobiology of Learning and Memory <i>Yassa, Michael</i> Prereqs: 200.370 or 200.141 or 080.305/306 or 020.306 This course is an advanced survey of the scientific study of learning and memory. An interdisciplinary approach is used to integrate the state of the field across levels from the cellular-molecular basis of synaptic plasticity to functional circuitry implicated in learning to memory systems in the brain. The course is designed to provide a deep understanding of the outstanding issues and current debates in learning and memory research with a specific emphasis on animal models. This is an interactive lecture/seminar course with active student participation. Cross-listed with Neuroscience	3.00		WF 9:00-10:15AM
AS.200.309	01	S		Evolutionary Mechanisms of Human Behavior <i>Petri, Herbert</i> Prereq: 200.101 Intro. to Psychology This course examines the evolution of human adaptive behaviors. In particular it examines evolutionary contributions to behaviors concerned with problems of survival such as mating strategies, parenting, and group living.	3.00	25	M 1:30-3:50PM
AS.200.310	01	N	W	Neural Basis of Cognitive Control <i>Courtney-Faruqee, Susan</i> Prereq: 080.203 or 050.203 or 200.141 or 200.305 This course examines the neural basis of "cognitive control". What is happening in our brains that enables control our thoughts and behavior? What does it mean neurologically when we say someone has "lost control"? What contributions do the neural processes of attention, memory, habits and emotions make? This is a very active area of current research, and this upper-level seminar will make broad use of the primary cognitive and systems neuroscience literature.	3.00	20	MWF 11:00-11:50AM
AS.200.314	01	QS		Adv Statistical Methods <i>Yantis, Steven</i> Prereq: One statistics course Permission required (signed add/drop form). Topics in applied probability and statistical inference; analysis of variance; experimental design. Intended for graduate students in psychology. This course does not fulfill the Small Group Experience requirement.	3.00	15	TTh 9:00-10:15AM
AS.200.316	01	HS	W	Thought and Perception	3.00	8	W 1:30-3:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Flombaum, Jonathan</i> Instructor's approval only. What is the relationship between thought and perception? We will address this question through contemporary readings in both psychology and philosophy. Included among the specific questions to be addressed: do the terms, 'perception' and 'cognition' designate functionally distinct parts of the mind? To what extent is conscious experience (for example, how things look) influenced by changes in belief, expectations, and motivation? To what extent are we capable of observation that is independent of belief, and what is the role of perceptual evidence in scientific theorizing? Is there a level of visual processing that is encapsulated from higher cognition? What role does language play in how we see? What role does/can attention play in mediating between cognition and perception? Readings from Fodor, Pylyshyn, Siegal, Churchland, Bargh, Balceris, and others. This class will meet jointly with 200.616 and Professor Gross' AS.150.476.			
AS.200.326	01	S	W	Law, Psychology and Public Policy <i>Hofer, Paul Jeffrey</i> An introduction to applications of psychological research in policy analysis. Special emphasis is given to the use and misuse of psychology in Supreme Court advocacy and decision making in the areas of children's rights, adult sexuality, and educational and employment opportunity. Students should be familiar with statistics and regression analysis prior to taking this course.	3.00	19	Th 4:00-6:20PM
AS.200.328	01	S	W	Thry-Mthds/Clinical Psyc <i>Edwin, David H</i> A critical examination of the methods of observation, description, reasoning, inference, measurement and intervention that underlie the clinical practice of psychology and psychiatry. Cross listed with Behavioral Biology. Prereq: 200.212; Junior and Senior Psychology, Behavioral Biology and Cognitive Science majors only OR instructor approval.	3.00	25	M 6:00-8:20PM
AS.200.333	01	S		Adv Social Psychology <i>Drigotas, Stephen M</i> Prereq: 200.133; Rising Junior & Senior Psychology majors only The class is designed as a seminar including discussion of primary readings of social psychology articles ranging in topics from interpersonal relationship to behavior in large groups.	3.00	19	W 1:30-3:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.200.344	01	NS		Behavioral Endocrinology <i>Ball, Gregory Francis</i> Prereq:(AS.200.141 OR AS.080.305) OR (AS.020.151 & AS.020.152) OR (AS.020.305 & AS.020.306) or Perm. Req'd. - An examination of the effects of hormones on behavior in non-human and human animals. Topics will include the effects of hormones on sexual differentiation, reproductive behavior, parental behavior, homeostasis and biological rhythms, regulation of body weight, learning and memory. Cross-listed with Behavioral Biology and Neuroscience	3.00	70	TTh 9:00-10:15AM
AS.200.359	01	S		The Psychology of Financial Crisis <i>Raifman, Lawrence J</i> The 2007-8 financial crisis, considered the most severe of its kind since the Great Depression, is our primary focus. The course will initially answer two critical questions: "What happened to bring about the financial crisis?" Who was hurt and who succeeded well?" We will then study specific crisis decisions to determine if a behavioral finance analysis contributes to a better understanding of decision making under conditions of uncertainty.	3.00	40	T 3:00-5:30PM
AS.200.401	01	S		Careers in Psychology - Freshman <i>Halberda, Justin</i> An introduction to the varied career paths offered across the field of psychology, hosting a diverse representation of speakers from various Johns Hopkins institutions and the local Baltimore community.	1.00	100	Th 6:00-7:00PM
AS.200.402	01	S		Careers in Psychology - Sophomore <i>Halberda, Justin</i> An introduction to the varied career paths offered across the field of psychology, hosting a diverse representation of speakers from various Johns Hopkins institutions and the local Baltimore community.	1.00	100	Th 6:00-7:00PM
AS.200.403	01	S		Careers in Psychology - Juniors <i>Halberda, Justin</i> An introduction to the varied career paths offered across the field of psychology, hosting a diverse representation of speakers from various Johns Hopkins institutions and the local Baltimore community.	1.00	100	Th 6:00-7:00PM
AS.200.404	01	S		Careers in Psychology - Seniors <i>Halberda, Justin</i> An introduction to the varied career paths offered across the field of psychology, hosting a diverse representation of speakers from various Johns Hopkins institutions and the local Baltimore community.	1.00	100	Th 6:00-7:00PM
AS.290.420	01	S	W	Human Sexual Orientation <i>Kraft, Chris S</i>	3.00	25	T 3:00-5:30PM

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Psychological & Brain Sciences

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
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Limited to Juniors and Seniors with PBS, Neuroscience, Public Health, Behavioral Biology, and Biology majors, or Juniors and Seniors with PBS or Women's Studies minors. This course will examine the historical and current theories of sexual orientation and sexual variation development by examining the biological, psychological and social contributing factors that influence the development of sexual orientations and variations along with treatment and modification of problematic sexual behaviors.

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Public Health Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.100.333	01	HS	W	Global Public Health Since World War II <i>Galambos, Louis P</i> Globalization has dramatically reshaped the world economy, providing great advantages to some but leaving poor nations to struggle with hunger, disease and death on a daily basis. This course explores the impact of globalization on public health in the developed and the developing nations since 1945. Cross-listed with Public Health Studies	3.00	15	MW 11:00-11:50AM; F 9:00-9:50AM
AS.100.333	02	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 8:00-8:50AM
AS.100.333	03	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.333	04	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.333	05	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 9:00-9:50AM
AS.100.333	06	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM
AS.100.333	07	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 8:00-8:50AM
AS.100.333	08	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM
AS.150.219	01	H	W	Intro to Bioethics <i>Bok, Hilary</i> Introduction to a wide range of moral issues arising in the biomedical fields, e.g. physician-assisted suicide, human cloning, abortion, surrogacy, and human subjects research. Cross listed with Public Health Studies.	3.00	20	F 12:00-12:50PM; MW 12:00-12:50PM
AS.150.219	02	H	W	Intro to Bioethics	3.00	20	F 12:00-12:50PM; MW 12:00-12:50PM
AS.150.219	03	H	W	Intro to Bioethics	3.00	20	W 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	04	H	W	Intro to Bioethics	3.00	20	W 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	05	H	W	Intro to Bioethics	3.00	20	F 12:00-12:50PM; MW 12:00-12:50PM
AS.150.219	06	H	W	Intro to Bioethics	3.00	20	F 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	07	H	W	Intro to Bioethics	3.00	20	W 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	08	H	W	Intro to Bioethics	3.00	20	W 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	09	H	W	Intro to Bioethics	3.00	20	F 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	10	H	W	Intro to Bioethics	3.00	20	F 2:00-2:50PM; MW 12:00-12:50PM
AS.180.289	01	S		Economics of Health <i>Bishai, David M</i> Prereq: 180.102 Application of economic concepts and analysis to the health services system. Review of empirical studies of demand for health services, behavior of providers, and relationship of health services to population health levels. Discussion of current policy issues relating to financing and and resource allocation. Cross-listed with Public Health Studies	3.00	100	M 3:30-5:50PM
AS.190.405	01	S	W	Food Politics <i>Sheingate, Adam</i> Juniors, Seniors, and Graduate Students Only This course examines the politics of food at the local, national, and global level. Topics include the politics of agricultural subsidies, struggles over genetically modified foods, government efforts at improving food safety, and issues surrounding obesity and nutrition policy. (AP & CP) Cross-listed with Public Health Studies	3.00	15	T 1:30-3:50PM
AS.220.309	01	H		Writing Healthy Baltimore <i>Masterson, Karen</i>	3.00	8	T 11:00AM-1:30PM

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Public Health Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Students will explore public health issues in Baltimore and then write about them first in short pieces, and then in longer, polished works. The framework will be the mayor's Healthy Baltimore 2015 initiative – launched in 2011 to address the city's top-10 public health problems, including obesity, smoking, drug and alcohol abuse, STDs, cancer, and environmental health hazards. Students will study the initiative and its historical context; examine data sets; explore where and how the initiative intersects with public health practitioners and advocacy groups at the neighborhood level; and write what they learn in different formats, including essays, breaking news, and substance analysis. Students will then "workshop" each other's papers.			
AS.220.309	02	H		Writing Healthy Baltimore	3.00	7	T 11:00AM-1:30PM
AS.230.150	01	S		Issues in International Development <i>Agarwala, Rina</i> Freshmen and Sophomores only. This course will provide an undergraduate level introduction to the study and practice, as well as the successes and failures, of international development. Students will be introduced to the various theoretical frameworks used to explain underdevelopment. Students will also explore the practice of development since the 1950s by examining specific strategies employed in Latin America, South Asia, East Asia, and Africa. Using a variety of country-specific case studies, students will have the opportunity to apply the theoretical and practical frameworks learned in the class to assess the successes and failures of real-life cases. Fulfills Economics requirement for IS GSCD track students only. Cross listed with International Studies (IR)	3.00	15	W 3:00-4:50PM; M 3:00-3:50PM
AS.230.150	02	S		Issues in International Development	3.00	15	W 3:00-4:50PM; M 4:00-4:50PM
AS.230.341	01	S		Medical Sociology <i>Agree, Emily</i> This course introduces students to medical sociology, which is the application of the sociological perspective to health and health care. Major topics include stress, social epidemiology, and the social organization of health care. Cross-listed with Public Health Studies	3.00	15	M 3:00-4:50PM; W 3:00-3:50PM
AS.230.341	02	S		Medical Sociology	3.00	15	W 3:00-3:50PM; M 3:00-4:50PM
AS.230.341	03	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 3:00-3:50PM
AS.230.341	04	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM
AS.230.341	05	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM
AS.230.341	06	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM
AS.280.100	01	S		Public Health in Film and Media <i>Smart, Mieka Jasmine</i>	1.00	60	F 1:30-3:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Freshmen Only. S/U Grading Only. This course uses film to explore and question the cultural landscape of public health in today's society. Public health is a richly diverse field that reaches not only into many areas of daily life, but into our cultural imagination as well. The purpose of this class is to examine how public health matters such as epidemic disease, access to health care, health and the law, bioethics, neglected tropical diseases and other topics are portrayed in feature films and documentaries. Each week students will view and discuss a film or documentary that addresses a public health issue.			
AS.280.220	01	S		Baltimore and The Wire: A focus on major urban issues <i>Beilenson, Peter</i>	3.00	40	MW 1:30-2:45PM
				Freshmen/Sophomores Only. Playing off the themes raised in the HBO series "The Wire", this course will provide an introduction to major issues confronting Baltimore and other American urban centers through a series of lectures by policy makers in the region.			
AS.280.220	02	S		Baltimore and The Wire: A focus on major urban issues	3.00	20	MW 1:30-2:45PM
AS.280.335	01	N		The Environment and Your Health <i>Trush, Michael A</i>	3.00	250	TTh 4:30-5:45PM
				This course surveys the basic concepts underlying environmental health sciences (toxicology, exposure assessment, risk assessment), current public health issues (hazardous waste, water- and food - borne diseases) and emerging global health threats (global warming, built environment, ozone depletion, sustainability). Cross-listed with Earth and Planetary Sciences and Geography and Environmental Engineering – PHS, GECS, and EPS majors have 1st priority for enrollment. Your enrollment may be withdrawn at the discretion of the instructor if you are not a GECS, PHS, or EPS major.			
AS.280.345	01	Q		Public Health Biostats <i>Zeger, Scott</i>	4.00	25	TTh 3:00-4:15PM; M 2:00-2:50PM
				Prereq: Four years of high school math Using problem-based learning focusing on public health topics, students learn to describe & summarize data, make inferences regarding population parameters, & test hypotheses.			
AS.280.345	02	Q		Public Health Biostats	4.00	25	TTh 3:00-4:15PM; M 3:00-3:50PM
AS.280.345	03	Q		Public Health Biostats	4.00	25	TTh 3:00-4:15PM; T 2:00-2:50PM
AS.280.345	04	Q		Public Health Biostats	4.00	25	TTh 3:00-4:15PM; W 2:00-2:50PM
AS.280.345	05	Q		Public Health Biostats	4.00	25	TTh 3:00-4:15PM; W 3:00-3:50PM
AS.280.345	06	Q		Public Health Biostats	4.00	25	TTh 3:00-4:15PM; Th 2:00-2:50PM
AS.280.345	07	Q		Public Health Biostats	4.00	25	F 2:00-2:50PM; TTh 3:00-4:15PM
AS.280.345	08	Q		Public Health Biostats	4.00	25	F 3:00-3:50PM; TTh 3:00-4:15PM
AS.280.346	01	Q		Advanced Biostats Lab <i>Zeger, Scott</i>	1.00	25	T 2:00-2:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Corequisite: AS.280.345 The course objective is to enable each student to enhance his or her quantitative scientific reasoning including precise formulations of scientific questions, valid interpretation of data as evidence, and clear, accurately written and oral communication about the numerical evidence as it informs the questions posed. Public Health Biostatistics is about quantitative approaches - ideas and skills - to address public health problems. Biostatistics is a bit like clinical medicine or other technical skills; to achieve mastery, a student must "see one, do one, teach one". Therefore, the course is organized to promote regular practice of new ideas and skills and to work together in small groups. Students are introduced to the statistical programming environment R in lecture and sections, and work realistic data analysis problems using R.			
AS.280.350	01	Q		Fundamentals of Epidemiology <i>Phelan-Emrick, Darcy F</i>	3.00	25	MW 3:00-4:15PM; F 3:00-4:15PM
				Juniors and Seniors only. A practical introduction to epidemiology focusing on the principles and methods of examining the distribution and determinants of disease morbidity and mortality in human populations.			
AS.280.350	02	Q		Fundamentals of Epidemiology	3.00	25	MW 3:00-4:15PM; F 3:00-4:15PM
AS.280.350	03	Q		Fundamentals of Epidemiology	3.00	25	MW 3:00-4:15PM; F 3:00-4:15PM
AS.280.399	01	S		Community Based Learning - Practicum Community Health Care <i>Bone, Lee R</i>	3.00	22	M 4:30-6:00PM
AS.280.399	02	S		Community Based Learning - Practicum Community Health Care	3.00	8	M 4:30-6:00PM
AS.280.406	01	S		U.S. Military Policy and Public Health: The Consequences of Conflict <i>Nevin, Remington Lee</i>	3.00	19	MW 1:30-2:45PM
				Jrs./Srs. PHS majors only. How does U.S. military policy impact global and national public health? Do U.S. military missions promoted as humanitarian assistance, such as those in Africa and Afghanistan, compromise global development and independent humanitarian action programs? Did the CIA's covert use of a vaccination program in Pakistan as cover for intelligence gathering threaten the success of global immunization campaigns? How have vaccines and drugs developed for U.S. military use benefited global public health? These topics and much more will be the focus in this seminar that explores consequences within conflict zones and the developing world, and among military personnel and veterans. Gordis Teaching Fellowship course			
AS.280.407	01	S		Public Health and Disasters <i>Errett, Nicole Ann</i>	3.00	19	TTh 9:00-10:15AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Jrs./Srs. PHS majors only. This course will introduce students to the public health component of preparedness and response to common emergencies, including the public health implications of such situations and the role of public health agencies and practitioners. The course will employ an all-hazard perspective, including emerging infections, natural disasters, and terrorism. Students will understand the public health community's role in preparing for and responding to disasters through case studies, discussion, debate, and material related to the national public health preparedness infrastructure. AS.280.335 The Environment and Your Health recommended. Gordis Teaching Fellowship course			
AS.280.408	01	S		Youth Violence Prevention: A Public Health Approach <i>Bottiani, Jessika Hattie Nicole</i>	3.00	19	MW 12:00-1:15PM
				Jrs./Srs. PHS majors only: Examines the causes, consequences, and prevention of violence committed by or against young people through a public health lens. Interrupts prevailing notions about crime and punishment and shifts the discourse to encompass an ecological and developmental understanding of the problem. Media representations and other case studies of youth violence, including mass shootings, child soldiers in armed conflict, interpersonal violence, bullying, suicide, and gang violence, provide the basis for in-class, interactive analysis applying current theories. Introduces effective prevention strategies, underscoring the important role of youth leadership and advocacy to prevent violence. AS.280.350 Fundamentals of Epidemiology recommended. Gordis Teaching Fellowship course			
AS.280.409	01	S		Health Systems Challenges from Chronic Diseases in Low and Middle Income Countries <i>Socal, Mariana Peixoto</i>	3.00	19	TTh 1:30-2:45PM
				Jrs./Srs. PHS majors only: This course provides a multidimensional health systems approach to chronic diseases, presently the largest population health burden in low and middle income countries. Learning tools include patient interviews, in-class debates, and country case studies. AS.280.350 Fundamentals of Epidemiology recommended. EpiGordis Teaching Fellowship course.			
AS.280.410	01	S		Disease Detectives and the History of Epidemiology <i>Buttress, Amelia Elizabeth</i>	3.00	19	TTh 10:30-11:45AM
				Jrs./Srs. PHS majors only: Through a series of historical case studies we will explore the changing ideas and assumptions that have shaped our struggles to understand and improve health in the United States. AS.280.350 Fundamentals of Epidemiology recommended. Gordis Teaching Fellowship course			
AS.280.495	01	S	W	Honors in PH - Seminar <i>Gebo, Kelly</i>	3.00	30	W 10:30-11:50AM

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Public Health Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Perm Req'd from Instructor before enrolling. Using lectures, oral presentations, and writing assignments, this seminar is designed to assist Public Health Studies majors in writing a senior thesis. Students will formulate their topics, develop research skills, and address issues of professional ethics. Participating in this seminar is required for students pursuing honors in PH studies.			
EN.570.108	01	E		Intro Environmental Eng <i>Alavi, Hedy V</i> Overview of environmental engineering including water/air quality issues, water supply/wastewater treatment, hazardous/solid waste management, pollution prevention, global environmental issues, public health considerations/environmental laws, regulations and ethics. Cross listed with Public Health Studies	3.00	70	TTh 12:00-1:15PM

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Sociology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.230.101	01	S		Intro Sociology <i>Agarwala, Rina</i> Introduces students to basic sociological concepts and perspectives, and applies them to a variety of topics including family, work, and the dynamics of class, gender, and racial/ethnic inequalities in the United States and globally.	3.00	15	MW 10:00-10:50AM; F 10:00-10:50AM
AS.230.101	02	S		Intro Sociology	3.00	15	MW 10:00-10:50AM; F 10:00-10:50AM
AS.230.101	03	S		Intro Sociology	3.00	15	MW 10:00-10:50AM; F 10:00-10:50AM
AS.230.101	04	S		Intro Sociology	3.00	15	MW 10:00-10:50AM; F 10:00-10:50AM
AS.230.101	05	S		Intro Sociology	3.00	15	MW 10:00-10:50AM; F 9:00-9:50AM
AS.230.101	06	S		Intro Sociology	3.00	15	MW 10:00-10:50AM; F 11:00-11:50AM
AS.230.101	07	S		Intro Sociology	3.00	15	MW 10:00-10:50AM; F 11:00-11:50AM
AS.230.101	08	S		Intro Sociology	3.00	15	MW 10:00-10:50AM; F 11:00-11:50AM
AS.230.150	01	S		Issues in International Development <i>Agarwala, Rina</i> Freshmen and Sophomores only. This course will provide an undergraduate level introduction to the study and practice, as well as the successes and failures, of international development. Students will be introduced to the various theoretical frameworks used to explain underdevelopment. Students will also explore the practice of development since the 1950s by examining specific strategies employed in Latin America, South Asia, East Asia, and Africa. Using a variety of country-specific case studies, students will have the opportunity to apply the theoretical and practical frameworks learned in the class to assess the successes and failures of real-life cases. Fulfills Economics requirement for IS GSCD track students only. Cross listed with International Studies (IR)	3.00	15	W 3:00-4:50PM; M 3:00-3:50PM
AS.230.150	02	S		Issues in International Development	3.00	15	W 3:00-4:50PM; M 4:00-4:50PM
AS.230.175	01	S	W	Chinese Revolutions <i>Kuo, Huei-Ying</i> This course introduces the origins, operation and impacts of five major revolutions in modern China between 1850 and 1950. These include the Taiping Rebellion, the republican revolutions, federalist and southern automatic movements, labor strikes as well as peasant rebellions. It draws on the existing historiography that examines China's transition from an empire to a republic, impacts of western and Japanese influences to China, as well as the continuity and change of Chinese social organizations. Cross list with International Studies and East Asian Studies. Fulfills IS History requirement.	3.00	20	TTh 12:00-1:15PM

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Sociology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.230.205	01	QS		Intro Social Statistics <i>Pasciuti, Daniel Steven</i> This course will introduce students to the application of statistical techniques commonly used in sociological analysis. Topics include measures of central tendency and dispersion, probability theory, confidence intervals, chi-square, anova, and regression analysis. Hands-on computer experience with statistical software and analysis of data from various fields of social research. Required for IS GSCD track students	4.00	15	F 10:00-10:50AM; TTh 10:30-11:45AM
AS.230.205	02	QS		Intro Social Statistics	4.00	15	F 11:00-11:50AM; TTh 10:30-11:45AM
AS.230.208	01	S		Introduction to Race and Ethnicity <i>McDonald, Katrina Bell</i> This course offers an historical overview of race and ethnicity in American society, and the processes that have led to ethnic and racial boundaries. We explore the social dynamics of racial/ethnic hostility and racial/ethnic protest movements. In addition, we examine how race and ethnicity have been used to justify segregation, domination and genocide, but also to create a sense of community, shared responsibility and belonging. Cross-listed with Africana Studies	3.00	40	TTh 3:00-4:15PM
AS.230.213	01	S	W	Social Theory <i>Andreas, Joel</i> This course provides an introduction to classical sociological theories (with an emphasis on Marx, Weber, and Durkheim). Contemporary theoretical perspectives on social inequality, conflict, and social change are also explored. Emphasis is placed on understanding the theoretical constructs as well as on applying them in the analysis of current social issues. Required for IS GSCD track students.	3.00	30	TTh 3:00-4:15PM
AS.230.265	01	QS		Research Tools and Technologies for the Social Sciences <i>Karatasli, Sahan Savas</i> This course will introduce students to a range of digital technologies that are critical for conducting social scientific research in the 21st century, using examples from ongoing social science faculty research projects at Johns Hopkins on global inequality and international development and on the 2010-2012 global wave of social protest. Students will develop competency in the use of computer programs for statistical analysis, database management, the creation of maps and timelines, and the presentation of research reports. Cross list with International Studies. Required for IS GSCD track students.	3.00	15	MWF 10:00-10:50AM
AS.230.265	02	QS		Research Tools and Technologies for the Social Sciences	3.00	15	MWF 11:00-11:50AM
AS.230.304	01	S		Social Organization and Social Control in Schools <i>Plank, Stephen</i>	3.00	30	MW 3:00-4:15PM

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				We will ask: "How do arrangements of tasks, rewards, roles, and opportunities in schools affect student learning, behavior, and sense of attachment?" and "In what ways are social control processes in schools related to the demands and dynamics of other institutions, particularly the family and the labor market?" Before addressing these questions, we will define social organization and social control, and describe the forms (both intended and unintended) they take in schools.			
AS.230.321	01	S	W	Revolution, Reform and the Social Inequality of China <i>Andreas, Joel</i> This course explores various aspects of social inequality in China during the Mao Zedong and the post-Mao reform eras. We will examine inequality within villages, the rural/urban divide, urban inequality, education and health policies, and gender and ethnic relations. Each of these issue areas will be tackled analytically, but the aim is also to understand what it was/is like to live in China during and after the Mao era. The course is designed for both undergraduate and graduate students. Cross-listed with East Asian Studies and International Studies (CP)	3.00	15	TTh 10:30-11:45AM
AS.230.325	01	S		Global Social Change and Development Practicum <i>Silver, Beverly Judith</i> This course provides "hands on" research experience in comparative and historical sociology. Sociological research tools and perspectives will be used to analyze social structure, conflict and change. This course is suitable for both majors and non majors, and fulfills the "research practicum" requirement for Sociology majors.	3.00		TBA
AS.230.341	01	S		Medical Sociology <i>Agree, Emily</i> This course introduces students to medical sociology, which is the application of the sociological perspective to health and health care. Major topics include stress, social epidemiology, and the social organization of health care. Cross-listed with Public Health Studies	3.00	15	M 3:00-4:50PM; W 3:00-3:50PM
AS.230.341	02	S		Medical Sociology	3.00	15	W 3:00-3:50PM; M 3:00-4:50PM
AS.230.341	03	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 3:00-3:50PM
AS.230.341	04	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM
AS.230.341	05	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM
AS.230.341	06	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM
AS.230.343	01	S		Political Sociology of Latin America <i>von der Heydt-Coca, Magda Zonia</i>	3.00	20	TTh 1:30-2:45PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.230.353	01	S	W	<p>This course provides an overview of Latin America through its historical, economic, social, and political dimensions. Emphasis will be given to the analysis of social structures: class, race and ethnicity, and the contemporary social movements. The course begins with an overview of the pre-Columbian civilizations and colonial legacies that gave rise to the multiethnic societies and the ethnic conflicts which characterize contemporary Latin America. Cross-listed with Program in Latin American Studies and International Studies (CP)</p> <p>Global Social Change <i>Hung, Ho-Fung</i></p> <p>This course introduces students to issues of global social change, with a particular focus on the challenges of international development and the contemporary globalization process. Specific themes include world income inequality and global poverty, the rise of supranational organizations (e.g. WTO and EU) and their relations with sovereign states, anti-globalization activism, the rise of China and India in the global economy, and the origins as well as consequences of the current global economic crisis, among others. Lectures will be aided by documentary films and other multi-media materials.</p> <p>Cross-listed with International Studies (IR). Fulfills Economics requirement for IS GSCD track students only.</p>	3.00	20	MW 1:30-2:45PM
AS.230.391	01	S		<p>Theories of International Development <i>Levien, Michael</i></p> <p>This course will cover major theoretical approaches to the study of development. We will begin with foundational political economic texts (including those of Adam Smith, Karl Marx, and Karl Polanyi). After setting the historical context of decolonization, we will then proceed to cover major theoretical approaches to the study of development in the past sixty years, including: modernization theory, dependency and world systems analysis, state-centered approaches, neo-institutionalism, the capabilities approach, political-ecology, post-development, feminism, the Washington consensus, social capital, experimental economics, and contemporary sociological reconstructions of Marx, Smith and Polanyi.</p> <p>Cross listed with International Studies (IR); fulfills IS Economics requirement for GSCD track students only.</p>	3.00	20	W 3:00-5:30PM
AS.360.247	01	S	W	<p>Introduction to Social Policy: Baltimore and Beyond <i>Deluca, Stefanie</i></p>	3.00	75	T 12:00-1:15PM; Th 12:00-1:15PM

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How can we address pressing social problems, such as inner city poverty, inequality in educational attainment among children from different backgrounds, and disparities in access to health care? Social policy refers to the programs, legislation and governmental activities that regulate access to important social, financial and institutional resources needed by members of a society to address these concerns.

Social policy also aims to reduce inequality, especially in the areas of education, health, income, housing, neighborhoods, and employment. The study of social policy is interdisciplinary, and this course will introduce students to the basic concepts in economics, political science, and sociology relevant to the study of social problems and the programs designed to remedy them. We will cover issues of national policy importance, as well as issues specifically affecting Baltimore City and the metropolitan region. This course is open to all students, but will be required for the new Social Policy Minor. The course is also recommended for students who are interested in law school, medical school, programs in public health, and graduate school in related social science fields. Cross list with Sociology, Economics and Political Science.

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Study of Women, Gender, & Sexuality

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.070.385	01	HS	W	From Sexual Nature to Sexual Politics <i>Goodfellow, Aaron</i> This course traces anthropological concern with questions of sexuality. Students will explore anthropological notions of primitive promiscuity, cultural configurations of the correspondence between sex, procreation, and birth, and ideas about sexual rites of passage. The course will end with a discussion of sexual politics in Euro-America and public concern over HIV/AIDS. The course draws on the work of Freud, Malinowski, Meade, Herdt, Povinelli, Rubin, Bersani and Halperin.	3.00	55	TTh 10:30-11:45AM
				Cross-listed with WGS			
AS.100.191	01	HS		Freshman Seminar: Family History in the U.S. and Europe <i>Ditz, Toby L</i> Freshmen only Discussion style. Introduces major themes since 1700: family sentiment and authority relations; gender and sexuality; family and work; dynamics of family and race. Readings emphasize interdisciplinary perspectives and interpretation of primary sources	3.00	20	Th 1:30-3:50PM
AS.100.333	01	HS	W	Global Public Health Since World War II <i>Galambos, Louis P</i> Globalization has dramatically reshaped the world economy, providing great advantages to some but leaving poor nations to struggle with hunger, disease and death on a daily basis. This course explores the impact of globalization on public health in the developed and the developing nations since 1945. Cross-listed with Public Health Studies	3.00	15	MW 11:00-11:50AM; F 9:00-9:50AM
AS.100.333	02	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 8:00-8:50AM
AS.100.333	03	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.333	04	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.333	05	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 9:00-9:50AM
AS.100.333	06	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM
AS.100.333	07	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 8:00-8:50AM
AS.100.333	08	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM
AS.100.372	01	HS		The Victorians <i>Walkowitz, Judith</i> This course focuses on the politics of everyday life, consumption, intimate relations, and concepts of the self in Victorian Britain (1837-1901). Particular attention will be devoted to Victorian visual culture, including exhibitions, built environment, decorative arts and leisure culture. Other themes include popular nationalism, class cultures, feminism and body politics, Empire and racial thought. Cross-listed with WGS and Program in Museums and Society	3.00	20	W 1:30-3:50PM
AS.130.330	01	H		Sex And The Garden <i>Robbins, Ellen Ann</i>	3.00	8	TTh 3:00-4:15PM

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AS.130.331	01	H	W	<p>A seminar on the history of interpretation of Genesis 2-3, with a focus on the uses of the biblical story of the Garden of Eden in Jewish, Christian, and Muslim traditions. Class attendance and participation are mandatory. Cross-listed with Jewish Studies and Study of Women, Gender, & Sexuality</p> <p>Sex, Drugs, and Rock & Roll in Ancient Egypt <i>Bryan, Betsy Morrell</i></p> <p>This seminar explores the social roles of sexuality, alcohol, other drugs, music, fragrance, and sensuality in secular and religious areas of Egyptian life, largely but not exclusively during the New Kingdom, ca. 1500 to 1000 B.C. The ancient attitudes towards these elements will be explored through the ancient textual sources in translation and the artistic representations.</p>	3.00	20	MW 3:00-4:15PM
AS.180.289	01	S		<p>Economics of Health <i>Bishai, David M</i></p> <p>Prereq: 180.102</p> <p>Application of economic concepts and analysis to the health services system. Review of empirical studies of demand for health services, behavior of providers, and relationship of health services to population health levels. Discussion of current policy issues relating to financing and resource allocation.</p> <p>Cross-listed with Public Health Studies</p>	3.00	100	M 3:30-5:50PM
AS.180.355	01	S		<p>Economics of Poverty and Inequality <i>Moffitt, Robert A</i></p> <p>This course focuses on the economics of poverty and inequality. It covers the measurement of poverty and inequality, facts and trends over time, the causes of poverty and inequality with a focus on those related to earnings and the labor market, and public policy toward poverty and inequality, covering both taxation and government expenditure and programs. By the nature of the material, the course is fairly statistical and quantitative. Several sections make use of intermediate microeconomic concepts, so Economics 301 or an equivalent is a prerequisite. Basic knowledge of regression analysis is also helpful.</p>	3.00	30	TTh 10:30-11:45AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.190.331	01	S		Race and Racism in Comparative Perspective <i>Hanchard, Michael</i> (formerly 'Comparative Racial Politics') Students will learn to utilize qualitative, interpretive methods of comparative politics to examine dynamics of racial and/or ethnic politics in the nation-states of Cuba, Brazil, Britain and France, Germany, and the United States. Readings will emphasize the role of the state, political economy, national culture, racist ideologies and anti-racist politics in the formation, maintenance and transformation of conditions of race-based inequalities. Students will also become familiar with theories and concepts of race and ethnicity, and the histories of social movements in the aforementioned societies founded, in part, on racial and/or ethnic identification as a response to inequality.	3.00	20	TTh 10:30-11:45AM
AS.200.204	01	S	W	Human Sexuality <i>Kraft, Chris S</i> Juniors and Seniors only within the following majors/minors: Behavioral Biology, Biology, Neuroscience, Psychological & Brain Sciences, Public Health, and the Study of Women, Gender, & Sexuality. All registration will be done during the normal registration period and you must meet all requirements to register. Course focuses on sexual development, sexuality across the lifespan, gender identity, sexual attraction and arousal, sexually transmitted disease, and the history of commercial sex workers and pornography. Formerly taught as 200.302	3.00	25	T 12:00-2:30PM
AS.200.204	02	S	W	Human Sexuality	3.00	25	T 9:00-11:30AM
AS.200.309	01	S		Evolutionary Mechanisms of Human Behavior <i>Petri, Herbert</i> Prereq: 200.101 Intro. to Psychology This course examines the evolution of human adaptive behaviors. In particular it examines evolutionary contributions to behaviors concerned with problems of survival such as mating strategies, parenting, and group living.	3.00	25	M 1:30-3:50PM
AS.230.150	01	S		Issues in International Development <i>Agarwala, Rina</i> Freshmen and Sophomores only. This course will provide an undergraduate level introduction to the study and practice, as well as the successes and failures, of international development. Students will be introduced to the various theoretical frameworks used to explain underdevelopment. Students will also explore the practice of development since the 1950s by examining specific strategies employed in Latin America, South Asia, East Asia, and Africa. Using a variety of country-specific case studies, students will have the opportunity to apply the theoretical and practical frameworks learned in the class to assess the successes and failures of real-life cases. Fulfills Economics requirement for IS GSCD track students only. Cross listed with International Studies (IR)	3.00	15	W 3:00-4:50PM; M 3:00-3:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.230.150	02	S		Issues in International Development	3.00	15	W 3:00-4:50PM; M 4:00-4:50PM
AS.250.351	01	N		Reproductive Physiology <i>Zirkin, Barry R</i> Focuses on reproductive physiology and biochemical and molecular regulation of the female and male reproductive tracts. Topics include the hypothalamus and pituitary, peptide and steroid hormone action, epididymis and male accessory sex organs, female reproductive tract, menstrual cycle, ovulation and gamete transport, fertilization and fertility enhancement, sexually transmitted diseases, and male and female contraceptive methods. Introductory lectures on each topic followed by research-oriented lectures and readings from current literature. Cross listed with Biology. Prerequisite: AS.020.305	2.00	90	W 3:00-4:45PM
AS.290.420	01	S	W	Human Sexual Orientation <i>Kraft, Chris S</i> Limited to Juniors and Seniors with PBS, Neuroscience, Public Health, Behavioral Biology, and Biology majors, or Juniors and Seniors with PBS or Women's Studies minors. This course will examine the historical and current theories of sexual orientation and sexual variation development by examining the biological, psychological and social contributing factors that influence the development of sexual orientations and variations along with treatment and modification of problematic sexual behaviors.	3.00	25	T 3:00-5:30PM
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i> Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Shakespeare, Douglass, and Woolf.	3.00	15	MW 12:00-1:15PM
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	MW 12:00-1:15PM
AS.360.133	03	H	W	Great Books at Hopkins <i>Strowick, Elisabeth</i>	3.00	15	MW 12:00-1:15PM
AS.362.111	01	HS	W	Introduction to African American Studies <i>McDonald, Katrina Bell</i> This course is an introduction to the origins and emergence of African American Studies as an academic discipline in the American academy. The course is centered on the social realities of people of African descent living in the United States.	3.00	30	TTh 10:30-11:45AM
AS.363.201	01	HS		Introduction to the Study of Women, Gender, and Sexuality <i>Pahl, Katrin</i>	3.00	30	TTh 12:00-1:15PM

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Study of Women, Gender, & Sexuality

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course offers an introduction into the fields of Women's Studies, Gender Studies, and Sexuality Studies. It explores why we need these fields of inquiry, how they have emerged historically, what some of the major and most interesting contributions are and where we might go from here. The course is meant as a preparation for the other WGS core courses.			
AS.363.333	01	HS		The Poetics and Politics of Sex <i>Pepitone, Lauren Michelle</i>	3.00	20	W 1:30-3:50PM
				A History of Pornography. This course traces several problematics in the history of Anglophone pornography from the nineteenth century to the present: contested sexual knowledge; pornography's reinforcement of or challenges to existing power relations; and cultural and legal determinations over and regulations of pornographic material. Treating pornography as a dynamic cultural construct, it considers historically contingent meanings of pornographic representation across a variety of media.			
AS.363.350	01	HS		Gender, Sexuality, and Religion <i>Gamble, Stephanie Lynn</i>	3.00	20	TTh 10:30-11:45AM
				Conjurors and Corn Mothers: Gender and Religion in Native North America. This course explores the European invasion of America through the various Native American experiences in the 16th-18th centuries. It focuses on Native American religions and gender ideologies as battlegrounds of cultural encounter, shaping the myriad responses from conversion to armed rebellion.			

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Theatre Arts & Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.225.301	01	H		Acting & Directing Workshop I <i>Astin, John</i> An introduction to the fundamentals of acting through exercises, improvisation, and work on scenes from established plays and Shakespearean sonnets, based on the teachings of Stanislavsky, Greet, Boleslavsky, Michael Chekhov, Clurman, and Meisner. This course also includes a brief survey of major playwrights. Plays will be read, analyzed, and employed in scene work. Auditions: Friday and Saturday, April 12 and 13 (10:00am to 11:30am). Auditions for the Freshmen positions in the class will be held in the fall. Permission only, signature required.	3.00	12	TTh 12:00-1:15PM
AS.225.301	02	H		Acting & Directing Workshop I	3.00	12	TTh 3:00-4:15PM
AS.225.304	01	H		Acting for Musical Theatre <i>Denithorne, Margaret</i> Permission only, signature required.	3.00	15	T 6:00-8:30PM
AS.225.307	01	H		Directing Seminar <i>Glossman, James</i> Fundamentals of mounting, casting and staging the play; various theories of directing; students must commit to a practical lab. It is understood that students have a working familiarity with acting fundamentals.	3.00	14	M 6:00-8:30PM
AS.225.310	01	H		Stagecraft <i>Roche, William C</i> Permission Required. A hands-on approach to the technical and theoretical elements of production. Meets in the Merrick Barn Scene Shop.	3.00	6	TTh 10:30-11:45AM
AS.225.314	01	H		Theater:Tech Direction <i>Roche, William C</i> An introduction to Technical Direction including pre-production and production with an overview of materials, tools, rigging and safety, together with design and its implementation.	3.00	14	MW 12:00-1:15PM
AS.225.317	01	H		Introduction to Theatre <i>Martin, Joseph H</i> Where theatre came from; how it emerged and what role it has played in human history; why the drama (or written text for a performance) came into being; and how changing social structures in different regions and epochs have shaped different kinds of theatre, plays and performance. Also: how theatre "works" for us and on us, and the major plays of world drama. [This course fulfills a key requirement in the Theatre minor.]	3.00	20	M 3:00-5:30PM
AS.225.320	01	H		Performance <i>Astin, John</i> The student is given specific acting assignments, and develops them as special projects for public performance under the direct supervision of the instructor. A professional level performance is the goal. Audition Required. Out of class rehearsal time required. Check at the Barn (6-0618) for auditions in August and September. Permission only, signature required	3.00	12	W 6:00-8:30PM

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Theatre Arts & Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.225.331	01	H		Acting Styles and the "Viewpoints" <i>Martin, Joseph H</i> This course is designed for acting students who have already completed one or both of the first levels in acting or the first level in directing. Uses the cutting edge approach to enhanced physicality and presence in acting – The Viewpoints, originally developed by Anne Bogart and Tina Landau. The second half of the course involves work on scenes from Commedia delle'Arte to modern absurdist plays.	3.00	20	W 3:00-5:30PM
AS.225.345	01	H	W	History of Modern Theatre & Drama <i>Denithorne, Margaret</i> Designed to impart a deepened appreciation and understanding of today's theatre by surveying the major playwrights, historical movements, and theatre practices of the 20th century. The course also seeks to help students understand theatre's relationship to the societal and political power structure of each era and to introduce students to great dynamic literature in its intended form, which is performance.	3.00	25	T 3:00-5:30PM

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Writing Seminars

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.213.336	01	H		Dancing About Architecture: Jewish Humor and the Construction of Cultural Discourse <i>Caplan, Marc</i> Are all Jews funny, or only the ones from New York? This course will be an advanced-undergraduate examination of literary, theatrical, cinematic, and televised representations of Jewish culture focusing on the construction of cultural discourse through comedy. Taking as a point of departure Sigmund Freud's Jokes and Their Relation to the Unconscious, we will consider the joke as a mode of narration and cultural coding with specific resonances for the Jewish encounter with modernity. Among the topics to be addressed in this course will be the origins of modern Jewish humor in traditional modes of storytelling and study; the problems of anxiety and otherness articulated and neutralized through humor; the significance of Jews in creating popular culture through the mass media (particularly though not exclusively in the United States) as well as the role of these mediums in transmitting and translating Jewish references to the general culture; the status of the Yiddish language as a vehicle for satire and a vehicle of resistance between tradition and modernity; the uses and abuses of Jewish stereotypes and the relationship of Jewish humor to anti-Semitism; the connections between Jewish humor and other modes of minority discourse; and the question of translation of Jewish humor both from Yiddish into other languages and from the Jewish "in-group" to a "post-ethnic" audience. Authors and performers to be examined will include Avrom Goldfaden, Sholem Aleichem, Franz Kafka, Dzigan and Szumacher, Lenny Bruce, the Marx Brothers, Mel Brooks, Phillip Roth, Woody Allen, Larry David, Sarah Silverman, and the Coen Brothers. All readings and discussions conducted in English.	3.00	50	MW 12:00-1:15PM
AS.220.105	01	H	W	Fiction/Poetry Writing I <i>Kanakia, Rahul H</i> This course is a prerequisite for most upper level courses A course in realist fiction and traditional verse, with readings in Eudora Welty, Vladimir Nabokov, Henry James, Robert Frost, Paul Fussell, John Gardner, Seamus Heane, and Gwendolyn Brooks. This first course for writers is a study of forms of short fiction and metered verse. Students compose short stories and poems; includes practice of critical attention to literary models and workshop of student writing.	3.00	17	MWF 9:00-9:50AM
AS.220.105	02	H	W	Fiction/Poetry Writing I <i>Hofmann, Richard Joseph</i>	3.00	17	MWF 9:00-9:50AM
AS.220.105	03	H	W	Fiction/Poetry Writing I <i>Staff</i>	3.00	17	MWF 9:00-9:50AM
AS.220.105	04	H	W	Fiction/Poetry Writing I	3.00	17	MWF 9:00-9:50AM
AS.220.105	05	H	W	Fiction/Poetry Writing I	3.00	17	MWF 9:00-9:50AM
AS.220.105	06	H	W	Fiction/Poetry Writing I <i>Grasser, John P</i>	3.00	17	MWF 10:00-10:50AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.220.105	07	H	W	Fiction/Poetry Writing I <i>Stintzi, Daniel Patrick</i>	3.00	17	MWF 10:00-10:50AM
AS.220.105	08	H	W	Fiction/Poetry Writing I <i>McNamara, Nathan Scott</i>	3.00	17	MWF 11:00-11:50AM
AS.220.105	09	H	W	Fiction/Poetry Writing I <i>Washatka, Nathaniel William</i>	3.00	17	MWF 11:00-11:50AM
AS.220.105	10	H	W	Fiction/Poetry Writing I <i>Staff</i>	3.00	17	MWF 11:00-11:50AM
AS.220.105	11	H	W	Fiction/Poetry Writing I	3.00	17	MWF 11:00-11:50AM
AS.220.105	12	H	W	Fiction/Poetry Writing I <i>Thompson, Elizabeth MacKelvie</i>	3.00	17	MWF 12:00-12:50PM
AS.220.105	13	H	W	Fiction/Poetry Writing I <i>Heney, Julia Lynn</i>	3.00	17	MWF 12:00-12:50PM
AS.220.105	14	H	W	Fiction/Poetry Writing I <i>Morton, Matthew Travis</i>	3.00	17	MWF 12:00-12:50PM
AS.220.105	15	H	W	Fiction/Poetry Writing I <i>Staff</i>	3.00	17	MWF 12:00-12:50PM
AS.220.105	16	H	W	Fiction/Poetry Writing I <i>Greer, Songmuang Somerset</i>	3.00	17	MWF 12:00-12:50PM
AS.220.105	17	H	W	Fiction/Poetry Writing I <i>Staff</i>	3.00	17	TTh 9:00-10:15AM
AS.220.105	18	H	W	Fiction/Poetry Writing I	3.00	17	TTh 9:00-10:15AM
AS.220.105	19	H	W	Fiction/Poetry Writing I <i>Takacs, Joselyn Whitney</i>	3.00	17	TTh 10:30-11:45AM
AS.220.105	20	H	W	Fiction/Poetry Writing I <i>Staff</i>	3.00	17	TTh 10:30-11:45AM
AS.220.105	21	H	W	Fiction/Poetry Writing I	3.00	17	TTh 10:30-11:45AM
AS.220.105	22	H	W	Fiction/Poetry Writing I	3.00	17	TTh 10:30-11:45AM
AS.220.105	23	H	W	Fiction/Poetry Writing I <i>McDonald, Robert Charles</i>	3.00	17	TTh 10:30-11:45AM
AS.220.105	24	H	W	Fiction/Poetry Writing I <i>Parker, Emily Kate</i>	3.00	17	TTh 12:00-1:15PM
AS.220.105	25	H	W	Fiction/Poetry Writing I <i>Slovak, Jocelyn Marie</i>	3.00	17	TTh 12:00-1:15PM
AS.220.105	26	H	W	Fiction/Poetry Writing I <i>Staff</i>	3.00	17	MWF 11:00-11:50AM
AS.220.105	27	H	W	Fiction/Poetry Writing I <i>Creighton, Alexander Louis</i>	3.00	17	TTh 10:30-11:45AM
AS.220.105	28	H	W	Fiction/Poetry Writing I <i>Staff</i>	3.00	17	TTh 12:00-1:15PM
AS.220.106	01	H	W	Fiction/Poetry Writing II <i>Staff</i> Prereq: 220.105 - This course is a prerequisite for most upper level courses - The second half of IFP, a course in counter-traditional antirealist fiction and free verse (Emily Dickinson, Virginia Woolf, Elizabeth Bishop, Franz Kafka, Italo Calvino, and William Carlos Williams).	3.00	17	MWF 11:00-11:50AM
AS.220.106	02	H	W	Fiction/Poetry Writing II <i>Allen, Austin Morrow</i>	3.00	17	MWF 12:00-12:50PM
AS.220.106	03	H	W	Fiction/Poetry Writing II <i>Kirby, Gwen Erin</i>	3.00	17	TTh 10:30-11:45AM
AS.220.106	04	H	W	Fiction/Poetry Writing II <i>Parr, Katherine</i>	3.00	17	TTh 10:30-11:45AM

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Writing Seminars

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AS.220.106	05	H	W	Fiction/Poetry Writing II <i>Siskel, Callie Gray</i>	3.00	17	TTh 10:30-11:45AM
AS.220.108	01	H	W	Introduction to Fiction & Nonfiction <i>Cavanaugh-Simpson, Joanne</i> IFN I can be substituted for IFP I. Permission not required. Limit 17 A course in realist fiction and nonfiction, with readings by Eudora Welty, Vladimir Nabokov, Henry James; George Orwell, Beryl Markham and Truman Capote. Students compose short stories and essays with attention to literary models.	3.00	17	T 6:00-8:30PM
AS.220.200	01	H		Introduction to Fiction <i>Blake, Glenn</i> Perm. Req'd. - Prereqs - AS.220.105 and AS.220.106 - Study in the reading and writing of short narrative with focus on basic technique: subject, narrative voice, character, sense of an ending, etc. Students will write weekly sketches, present story analyses in class, and workshop one finished story. Selected parallel readings from such models of the form as Henry James, Anton Chekov, James Joyce, John Cheever, Alice Munro, and others. IFP I and II required for admission. (Formerly 220.191)	3.00	15	T 3:00-5:20PM
AS.220.200	02	H		Introduction to Fiction <i>Davies, Tristan</i>	3.00	15	Th 3:00-5:20PM
AS.220.200	03	H		Introduction to Fiction <i>Staff</i>	3.00	15	Th 3:00-5:20PM
AS.220.201	01	H		Introduction to Poetry <i>Scafidi, Steve</i> Perm. Req'd. - Prereqs: AS.220.105 AND AS.220.106 - A study of the fundamentals and strategies of poetry writing. This course combines analysis and discussion of traditional models of poetry with workshop critiques of student poems and student conferences with the instructor.	3.00	15	M 1:30-3:50PM
AS.220.201	02	H		Introduction to Poetry <i>Williamson, Greg W</i>	3.00	15	W 1:30-3:50PM
AS.220.202	01	H	W	Introduction to Non-Fiction: Matters of Fact <i>Biddle, Wayne</i> A first course in nonfiction writing, emphasizing how facts can be woven into narrative forms to portray verifiable, rather than imagined, people and events. Students read and discuss model works, then write frequent papers to refine their own style. (Formerly 220.145)	3.00	15	W 1:30-3:50PM
AS.220.204	01	H	W	Introduction to Dramatic Writing: Film <i>Lapadula, Marc</i> An examination of the screenplay as a literary text and blue print for production. Professional screenplays will be critically analyzed, with focus on character, dialogue, plot development, conflict, pacing, dramatic foreshadowing, the element of surprise, text and subtext, and visual story-telling. Students write one complete script.	3.00	15	F 4:30-6:50PM
AS.220.309	01	H		Writing Healthy Baltimore <i>Masterson, Karen</i>	3.00	8	T 11:00AM-1:30PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Students will explore public health issues in Baltimore and then write about them first in short pieces, and then in longer, polished works. The framework will be the mayor's Healthy Baltimore 2015 initiative – launched in 2011 to address the city's top-10 public health problems, including obesity, smoking, drug and alcohol abuse, STDs, cancer, and environmental health hazards. Students will study the initiative and its historical context; examine data sets; explore where and how the initiative intersects with public health practitioners and advocacy groups at the neighborhood level; and write what they learn in different formats, including essays, breaking news, and substance analysis. Students will then "workshop" each other's papers.			
AS.220.309	02	H		Writing Healthy Baltimore	3.00	7	T 11:00AM-1:30PM
AS.220.316	01	H	W	Seminar: Opinion Writing <i>Kane, Gregory</i> The study of exposition and argument in literary prose, with exposure to journalistic practices. Instructor will assign topics on which students write essays subsequently discussed in class and critiqued for style, grammar, coherence, and effectiveness.	3.00	15	W 7:00-9:20PM
AS.220.325	01	H		Intermediate Fiction: Story and Plot <i>Staff</i> The study of plot, with questions, both practical and theoretical, inevitably raised by the short story form. Readings in Chekhov, James, O'Connor, Cheever, Joyce, and Hemingway.	3.00	15	W 3:00-5:20PM
AS.220.327	01	H		Intermediate Fiction: Characters <i>Davies, Tristan</i> A study of fictional persons in works by Fitzgerald, Joyce, W.C. Williams, and Rilke. Students write sketches and compose at least one complete story.	3.00	15	T 3:00-5:20PM
AS.220.337	01	H	W	Intermediate Dramatic Writing: Film <i>Lapadula, Marc</i> Prereqs: 220.204; Perm. Req'd An intensive workshop focusing on methodology: enhancing original characterization, plot development, conflict, story, pacing, dramatic foreshadowing, the element of surprise, text and subtext, act structure and visual storytelling. Each student is expected to present sections of his/her "screenplay-in-progress" to the class for discussion. The screenplay Chinatown will be used as a basic text.	3.00	15	F 1:30-3:50PM
AS.220.339	01	H	W	Seminar: Science Stories <i>Grimm, David</i>	3.00	15	F 4:00-6:20PM

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				Prereq: 220.146 or 220.203 or permission of instructor - Science Stories is designed to teach students the skills of daily science news reporting and writing. Lectures will cover topics such as how to write news ledes, how to get great quotes, how to find stories, and how best to interact with researchers and outside experts. Every other week, scientists from local institutions will present their latest research to the class. Students ask questions and are given a week to write up a daily news story, which is workshoped during the following class. As a final project, students will be asked to find and write a daily news story on their own.			
AS.220.377	01	H		Intermediate Poetry: Poetic Forms <i>Williamson, Greg W</i> Perm. Req'd.Perm. Req'd. A consideration of a variety of poetic forms and conventions, analysis and discussion of characteristic approaches, with a balance of workshop of student poems. Admission requires completion of Introduction to Poetry.	3.00	15	Th 1:30-3:50PM
AS.220.380	01	H		Intermediate Fiction: The Scene <i>Blake, Glenn</i> Emphasis in writing scenes-the building blocks of fiction-units of action, units of dialogue. Readings will include the stories of Chekhov, Cheever, Hemingway, and Carver.	3.00	15	Th 3:00-5:20PM
AS.220.384	01	H	W	Intermediate Nonfiction: I, Me, Mine: American Autobiography <i>Biddle, Wayne</i> The class will read and discuss classic autobiographical texts by Benjamin Franklin, Frederick Douglass, Henry Thoreau, Henry Adams, Gertrude Stein, Malcolm X, and others. Students will write and workshop their own life stories of substantial length.	3.00	15	T 1:30-3:50PM
AS.220.397	01	H		Intermediate Poetry: The Lyric <i>Scafidi, Steve</i> What is a lyric poem in the 21st Century? What causes such a thing? What does it sound like? What is it good for? Who writes them? We will. By reading lyric poems written over the last 500 years in English, and by writing our own original work we will find some answers to these questions. This class will have a special emphasis on Free Verse and the particular challenges and joys of such a poem. This workshop aims to generate new work and to cultivate skills necessary for a writer. Perm. Req'd	3.00	15	F 1:30-3:50PM
AS.220.400	01	H		Advanced Poetry Workshop <i>Irwin, John T</i> Perm. Req'd - Prereq: AS.200.201 - The capstone course in poetry writing. Consideration of various poetic models in discussion, some assigned writing, primarily workshop of student poems. Students will usually complete a "collection" of up to 15 poems. Completion of Introduction to Poetry required for admission. (Formerly 220.396)	3.00	15	M 3:00-6:00PM

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Writing Seminars

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.220.401	01	H		Advanced Fiction Workshop <i>Klam, Matthew</i> Perm. Req'd The capstone course in writing fiction, primarily devoted to workshop of student stories. Some assignments, some discussion of literary models, two or three completed student stories with revisions. Completion of Intermediate Fiction is required for admission. (Formerly 220.355)	3.00	15	M 1:30-3:50PM
AS.220.401	02	H		Advanced Fiction Workshop <i>Leithauser, Brad</i>	3.00	15	W 1:30-3:50PM
AS.220.411	01	H		Readings in Poetry: Sex & Death in Contemporary American Poetry <i>Scafi, Steve</i> Between sex and death the body has a varied wild life in American poetry. In a survey of contemporary work this seminar will consider the life of the body, its relationship to the imagination and the kaleidoscopic world of the senses. Reading erotic poems, elegies, poems of sickness and health, and of age and youth, we will find an intimate politics of the body. Students will read and respond critically to American poems written over the last forty years.	3.00	15	T 1:30-3:50PM
AS.220.412	01	H		Readings in Poetry: Eliot, Crane & Stevens <i>Irwin, John T</i> An examination of the poetry of Eliot, Crane and Stevens in the context of the modernist movement in the verbal and visual arts. Not a workshop course. Jr and Sr majors given preference.	3.00	15	W 3:00-6:00PM
AS.220.420	01	H		Readings in Contemporary Fiction: Coetzee, Delillo, Freudenberg, Johnson <i>Klam, Matthew</i> The central concern of this course is to read, study, think about, and discuss several novels and short story collections, paying special attention to the voice and structural techniques these authors have invented to create compelling works.	3.00	15	W 3:00-5:20PM
AS.220.423	01	H		Readings in Fiction: Castaways in Literature <i>Staff</i> Our primary text will be Defoe's Robinson Crusoe. We will read spin-offs of Robinson Crusoe (Muriel Spark's Robinson, J. M. Coetzee's Foe, Elizabeth Bishop's "Crusoe in England") as well as Golding's Lord of the Flies and Sylvia Townsend Warner's Mr. Fortune's Maggot. Selections from Homer, Swift, and Byron. We will conclude with Shakespeare's The Tempest. (Leithauser)	3.00	15	M 3:00-5:20PM

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Applied Mathematics & Statistics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.550.100	01	EQ		Introduction to Applied Mathematics and Statistics <i>Naiman, Daniel Q</i> A seminar-style series of lectures and assignments to acquaint the student with a range of intellectual and professional activities performed by applied mathematicians and statisticians. Department faculty and outside speakers present problems arising in applied mathematics and statistics.	1.00	40	T 12:00-12:50PM
EN.550.111	01	EQ		Statistical Analysis I <i>Torcaso, Fred</i> First semester of a general survey of statistical methodology. Topics include descriptive statistics, introductory probability, conditional probability, random variables, expectation, sampling, the central limit theorem, classical and robust estimation, confidence intervals, and hypothesis testing. Case studies from psychology, epidemiology, economics and other fields serve to illustrate the underlying theory. Some use of Minitab, Excel or R, but no prior computing experience is necessary. Prerequisite: four years of high school mathematics. Students who may wish to undertake more than two semesters of probability and statistics should consider 550.420-430.	4.00	30	MWF 12:00-12:50PM; W 3:00-3:50PM
EN.550.111	02	EQ		Statistical Analysis I	4.00	30	MWF 12:00-12:50PM; W 4:30-5:20PM
EN.550.111	03	EQ		Statistical Analysis I	4.00	30	MWF 12:00-12:50PM; Th 10:30-11:20AM
EN.550.111	04	EQ		Statistical Analysis I	4.00	30	MWF 12:00-12:50PM; Th 12:00-12:50PM
EN.550.111	05	EQ		Statistical Analysis I	4.00	30	MWF 12:00-12:50PM; Th 1:30-2:20PM
EN.550.111	06	EQ		Statistical Analysis I	4.00	30	MWF 12:00-12:50PM; Th 3:00-3:50PM
EN.550.111	07	EQ		Statistical Analysis I	4.00	30	MWF 12:00-12:50PM; Th 4:30-5:20PM
EN.550.112	01	EQ		Statistical Analysis II <i>Athreya, Dwijavanti P</i> Second semester of a general survey of statistical methodology. Topics include two-sample hypothesis tests, analysis of variance, linear regression, correlation, analysis of categorical data, and nonparametrics. Students who may wish to undertake more than two semesters of probability and statistics should strongly consider the 550.420-430 sequence. Prerequisite: 550.111 or credit for AP Statistics.	4.00	25	MWF 1:30-2:20PM; Th 10:30-11:20AM
EN.550.112	02	EQ		Statistical Analysis II	4.00	25	MWF 1:30-2:20PM; Th 12:00-12:50PM
EN.550.112	03	EQ		Statistical Analysis II	4.00	25	MWF 1:30-2:20PM; Th 1:30-2:20PM
EN.550.112	04	EQ		Statistical Analysis II	4.00	25	MWF 1:30-2:20PM; Th 3:00-3:50PM
EN.550.171	01	Q		Discrete Mathematics <i>Castello, Beryl</i>	4.00	30	MWF 10:00-10:50AM; Th 9:00-9:50AM

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Applied Mathematics & Statistics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: Four years of high school mathematics. Introduction to the mathematics of finite systems. Logic; Boolean algebra; induction and recursion; sets, functions, relations, equivalence, and partially ordered sets; elementary combinatorics; modular arithmetic and the Euclidean algorithm; group theory; permutations and symmetry groups; graph theory. Selected applications. The concept of a proof and development of the ability to recognize and construct proofs are part of the course.			
EN.550.171	02	Q		Discrete Mathematics	4.00	30	MWF 10:00-10:50AM; Th 12:00-12:50PM
EN.550.171	03	Q		Discrete Mathematics	4.00	30	MWF 10:00-10:50AM; Th 10:30-11:20AM
EN.550.252	01	EQ		Math Models-Decision Making:Stochastic Models <i>Castello, Beryl</i>	4.00	25	MWF 9:00-9:50AM; Th 1:30-2:20PM
				Prereq: One semester of calculus This course is an introduction to management science and the quantitative approach to decision making. Our focus will be on the formulation and analysis of stochastic models, where some problem data may be uncertain. The covered topics may include Project Scheduling, Decision Analysis, Time Series Forecasting, Inventory Models with Stationary or Nonstationary Demand, Queuing Models, Discrete-Event Simulation, and Quality Management. We emphasize model development and case studies, using spreadsheets and other computer software. The applications we study occur in variety of applications.			
EN.550.291	01	EQ		Linear Algebra & Differential Equations <i>Fishkind, Donniell</i>	4.00	25	MW 3:00-4:15PM; T 1:30-2:20PM
				Prereq: One year of calculus, computing experience. An introduction to the basic concepts of linear algebra, matrix theory, and differential equations that are used widely in modern engineering and science. Intended for engineering and science majors whose program does not permit taking both 110.201 and 110.302.			
EN.550.291	02	EQ		Linear Algebra & Differential Equations	4.00	25	MW 3:00-4:15PM; T 3:00-3:50PM
EN.550.310	01	EQ		Probability & Statistics for the Physical Sciences & Engineering <i>Staff</i>	4.00	30	MWF 11:00-11:50AM; T 9:00-9:50AM
				Prereq: one year of calculus. Recommended corequisite: multivariable calculus. Students cannot receive credit for both 550.310 and 550.311. Students cannot receive credit for 550.310 after having received credit for 550.420 or 550.430. An introduction to probability and statistics at the calculus level, intended for engineering and science students planning to take only one course on the topics. Students are encouraged to consider 550.420-430 instead. Combinatorial probability, independence, conditional probability, random variables, expectation and moments, limit theory, estimation, confidence intervals, hypothesis testing, tests of means and variances, goodness-of-fit.			

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.550.310	02	EQ		Probability & Statistics for the Physical Sciences & Engineering	4.00	30	MWF 11:00-11:50AM; T 3:00-3:50PM
EN.550.310	03	EQ		Probability & Statistics for the Physical Sciences & Engineering	4.00	30	MWF 11:00-11:50AM; T 4:30-5:20PM
EN.550.311	01	EQ		Probability and Statistics for the Biological Sciences and Engineering <i>Torcaso, Fred</i> Prereq: One year of calculus; Corequisite: 110.202 recommended. Students cannot receive credit for both 550.310 and 550.311. Students cannot receive credit for 550.311 after having received credit for 550.420 or 550.430. An introduction to probability and statistics at the calculus level, intended for students in the biological sciences planning to take only one course on the topics. The basic scope of this course is similar to 550.310, with an emphasis on examples and problems in the biological sciences. Students are encouraged to consider 550.420-430 instead. Combinatorial probability, independence, conditional probability, random variables, expectation and moments, limit theory, estimation, confidence intervals, hypothesis testing, tests of means and variances, and goodness-of-fit will be covered.	4.00	35	MWF 10:00-10:50AM; T 9:00-9:50AM
EN.550.311	02	EQ		Probability and Statistics for the Biological Sciences and Engineering	4.00	35	MWF 10:00-10:50AM; T 3:00-3:50PM
EN.550.361	01	EQ		Intro to Optimization <i>Fishkind, Donniell</i> Prereq: one year of calculus, linear algebra, computing experience. Appropriate for undergraduate and graduate students without the mathematical background required for 550.661. An introductory survey of optimization methods, supporting mathematical theory and concepts, and application to problems of planning, design, prediction, estimation, and control in engineering, management, and science. Study of varied optimization techniques including linear programming, network-problem methods, dynamic programming, integer programming, and nonlinear programming.	4.00	35	MWF 10:00-10:50AM; Th 1:30-2:20PM
EN.550.361	02	EQ		Intro to Optimization	4.00	35	MWF 10:00-10:50AM; Th 3:00-3:50PM
EN.550.361	03	EQ		Intro to Optimization	4.00	35	MWF 10:00-10:50AM; Th 9:00-9:50AM
EN.550.385	01	EQ		Scientific Computing: Linear Algebra <i>Hur, Youngmi</i> Prereq: Calculus III, and 550.291 or approved alternative (e.g., 110.201). A first course on computational linear algebra and applications. Topics include floating-point arithmetic, algorithms and convergence, Gaussian elimination for linear systems, matrix decompositions (LU, Cholesky, QR), iterative methods for systems (Jacobi, Gauss-Seidel), and approximation of eigenvalues (power method, QR-algorithm). Theoretical topics such as vector spaces, inner products, norms, linear operators, matrix norms, eigenvalues, and canonical forms of matrices (Jordan, Schur) are reviewed as needed. Matlab is used to solve all numerical exercises; no previous experience with computer programming is required.	4.00	30	MWF 11:00-11:50AM; T 3:00-3:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.550.391	01	EQ		Dynamical Systems <i>Eyink, Gregory</i> Prereq: Multivariable calculus, linear algebra, computing experience. Mathematical concepts and methods for describing and analyzing linear and nonlinear systems that evolve over time. Topics include boundedness, stability of fixed points and attractors, feedback, optimality, Liapounov functions, bifurcation, chaos, and catastrophes. Examples drawn from population growth, economic behavior, physical and engineering systems. The main mathematical tools are linear algebra and basic differential equations.	4.00	24	MWF 10:00-10:50AM; Th 12:00-12:50PM
EN.550.400	01	EQ		Mathematical Modeling and Consulting <i>Lee, Nam H</i> Formulation, analysis, interpretation, and evaluation of mathematical models. Synthesis of ideas, techniques, and models from mathematical sciences, science, and engineering. Case studies to illustrate basic features of the modeling process. Project-oriented practice and guidance in modeling techniques, research techniques, and written and oral communication of mathematical concepts.	4.00	30	MW 4:30-5:45PM; F 3:00-3:50PM
EN.550.413	01	EQ		Applied Statistics and Data Analysis <i>Staff</i> Prerequisites: EN.550.112 or EN.550.310 or EN.550.311 or EN.550.420 - An introduction to basic concepts, techniques, and major computer software packages in applied statistics and data analysis. Topics include numerical descriptive statistics, observations and variables, sampling distributions, statistical inference, linear regression, multiple regression, design of experiments, nonparametric methods, and sample surveys. Real-life data sets are used in lectures and computer assignments. Intensive use of statistical packages such as S+ to analyze data.	4.00	50	MW 3:00-4:15PM; F 1:30-2:20PM
EN.550.420	01	EQ		Intro to Probability <i>Wierman, John Charles</i> Prereq: one year of calculus. Recommended corequisite: multivariable calculus. Probability and its applications, at the calculus level. Emphasis on techniques of application rather than on rigorous mathematical demonstration. Probability, combinatorial probability, random variables, distribution functions, important probability distributions, independence, conditional probability, moments, covariance and correlation, limit theorems. Students initiating graduate work in probability or statistics should enroll in 550.620. Auditors are not permitted. Students can use any of the 6th, 7th or 8th editions of the textbook.	4.00	25	MWF 1:30-2:20PM; Th 10:30-11:20AM
EN.550.420	02	EQ		Intro to Probability	4.00	25	MWF 1:30-2:20PM; Th 12:00-12:50PM
EN.550.420	03	EQ		Intro to Probability	4.00	25	MWF 1:30-2:20PM; Th 1:30-2:20PM
EN.550.420	04	EQ		Intro to Probability	4.00	25	MWF 1:30-2:20PM; Th 3:00-3:50PM

Applied Mathematics & Statistics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.550.427	01	Q		Stochastic Processes and Applications to Finance <i>Athreya, Dwijavanti P</i> A development of stochastic processes with substantial emphasis on the processes, concepts, and methods useful in mathematical finance. Relevant concepts from probability theory, particularly conditional probability and conditional expectation, will be briefly reviewed. Important concepts in stochastic processes will be introduced in the simpler setting of discrete-time processes, including random walks, Markov chains, and discrete-time martingales, then used to motivate more advanced material. Most of the course will concentrate on continuous-time stochastic processes, particularly martingales, Brownian motion, diffusions, and basic tools of stochastic calculus. Examples will focus on applications in finance, economics, business, and actuarial science. Students may not receive credit for both 550.427 and 550.426.	4.00	50	MW 1:30-2:45PM; Th 12:00-12:50PM
EN.550.433	01	EQ		Monte Carlo Methods <i>Spall, James C.</i> Prereq: 550.430 The objective of the course is to survey essential simulation techniques for popular stochastic models. The stochastic models may include classical time-series models, Markov chains and diffusion models. The basic simulation techniques covered will be useful in sample-generation of random variables, vectors and stochastic processes, and as advanced techniques, importance sampling, particle filtering and Bayesian computation may be discussed.	4.00	60	MW 4:30-5:45PM; T 3:00-3:50PM
EN.550.436	01	EQ		Data Mining <i>Jedynak, Bruno</i> Prereq: 550.310 or equivalent. Recommended prereq: 550.413. Data mining is a relatively new term used in the academic and business world, often associated with the development and quantitative analysis of very large databases. Its definition covers a wide spectrum of analytic and information technology topics, such as machine learning, artificial intelligence, statistical modeling, and efficient database development. This course will review these broad topics, and cover specific analytic and modeling techniques such as advanced data visualization, decision trees, neural networks, nearest neighbor, clustering, logistic regression, and association rules. Although some of the mathematics underlying these techniques will be discussed, our focus will be on the application of the techniques to real data and the interpretation of results. Because use of the computer is extremely important when "mining" large amounts of data, we will make substantial use of data mining software tools to learn the techniques and analyze datasets.	4.00	24	MW 1:30-2:45PM; Th 10:30-11:20AM
EN.550.436	02	EQ		Data Mining	4.00	24	MW 1:30-2:45PM; Th 12:00-12:50PM
EN.550.442	01	EQ		Investment Science	4.00	30	MW 6:00-9:00PM; F 9:00-9:50PM

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Applied Mathematics & Statistics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Staff</i>			
				Intended for upper-level undergraduate and graduate students, this course offers a rigorous treatment of the subject of investment as a scientific discipline. Mathematics is employed as the main tool to convey the principles of investment science and their use to make investment calculations for good decision-making. Topics covered in the course include the basic theory of interest and its application to fixed-income securities, cash flow analysis and capital budgeting, mean-variance portfolio theory, and the associated capital asset pricing model, utility function theory and risk analysis, derivative securities and basic option theory, portfolio evaluation. The student is expected to be comfortable with the use of mathematics as a method of deduction and problem solving. Some familiarity with optimization is desirable but not necessary.			
EN.550.442	02	EQ		Investment Science	4.00	30	MW 6:00-9:00PM; F 10:00-10:50AM
EN.550.444	01	EQ		Introduction to Financial Derivatives	4.00	30	MW 3:00-4:15PM; F 3:00-3:50PM
				<i>Audley, David</i>			
				Prereq: 110.302 and 550.420. This course will develop the mathematical concepts and techniques for modeling cash instruments and their hybrids and derivatives.			
EN.550.444	02	EQ		Introduction to Financial Derivatives	4.00	30	MW 3:00-4:15PM; Th 3:00-3:50PM
EN.550.446	01	EQ		Risk Measurement/Management in Financial Markets	4.00	40	MW 12:00-1:15PM; F 12:00-12:50PM
				<i>Audley, David</i>			
				Prereq: 550.444 This course applies advanced mathematical techniques to the measurement, analysis, and management of risk. The focus is on financial risk. Sources of risk for financial instruments (e.g., market risk, interest rate risk, credit risk) are analyzed; models for these risk factors are studied and the limitation, shortcomings and compensatory techniques are addressed.			
EN.550.461	01	EQ		Optimization in Finance	4.00	40	MWF 9:00-9:50AM; Th 9:00-9:50AM
				<i>Torcaso, Fred</i>			
				A survey of many of the more important optimization methods and tools that are found to be useful in financial applications. Prerequisites: 550.442 or 550.444			
EN.550.463	01	EQ		Network Models in Operations Research	4.00	35	MWF 12:00-12:50PM; T 3:00-3:50PM
				<i>Castello, Beryl</i>			
				Prerequisites: 550.361 or 550.661. In-depth mathematical study of network flow models in operations research, with emphasis on combinatorial approaches for solving them. Introduction to techniques for constructing efficient algorithms, and to some related data structures, used in solving shortest-path, maximum-volume, flow, and minimum-cost flow problems. Emphasis on linear models and flows, with brief discussion of non-linear models and network design.			
EN.550.473	01	Q		Introduction to Random Graphs	3.00	25	MWF 3:00-3:50PM
				<i>Scheinerman, Edward</i>			

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
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Prerequisites: (550.171 or 550.472 or 550.672)
AND (550.310 or 550.311 or 550.420) AND
(intro-level computing course)

This course is an introduction to the theory of random graphs, with particular emphasis on the Erdos-Renyi model. Topics covered are likely to be: review of discrete probability, asymptotics, the Erdos-Renyi model, connectivity, small subgraphs, matchings, Hamiltonian cycles, cliques, chromatic number, graphical evolution, and other random models. Students will do both analytic and computational work, hence must possess a comfortable background in calculus, basic probability, discrete mathematics, and basic computing (Python preferred, but other languages, including Matlab are acceptable).

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.520.315	01	E		Introduction to Information Processing of Sensory Signals <i>Hermansky, Hynek</i> Prerequisites: 520.214 (or 580.222) or consent of the instructor. An introductory course to basic concepts of information processing of human communication signals (sounds, images,..) in living organisms and by machine. Cross-listed with Biomedical Engineering	3.00	30	TTh 10:30-11:45AM
EN.520.445	01	E		Audio Signal Processing <i>Elhilali, Mounya</i> Prereq: knowledge of Fourier analysis and signal processing or permission of instructors. This course gives a foundation in current audio and speech technologies, and covers techniques for sound processing by processing and pattern recognition, acoustics, auditory perception, speech production and synthesis, speech estimation. The course will explore applications of speech and audio processing in human computer interfaces such as speech recognition, speaker identification, coding schemes (e.g. MP3), music analysis, noise reduction. Cross-listed with BME	3.00	40	TTh 10:30-11:45AM
EN.580.111	01	EN		BME Modeling & Design <i>Haase, Eileen B</i> BME Freshmen only - Working in teams with upperclassmen this course (1) introduces biomedical engineering freshmen to an orderly method for analyzing and modeling biological systems and (2) introduces engineering principles to solve design problems that are biological, physiological, and/or medical. Freshmen are expected to use the informational content being taught in calculus, physics and chemistry and to apply this knowledge to the solution of practical problems encountered in biomedical engineering.	2.00	5	Th 12:00-12:50PM; Th 8:30-10:20AM
EN.580.111	02	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 8:30-10:20AM
EN.580.111	03	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 8:30-10:20AM
EN.580.111	04	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 8:30-10:20AM
EN.580.111	05	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 1:00-2:50PM
EN.580.111	06	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 1:00-2:50PM
EN.580.111	07	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 1:00-2:50PM
EN.580.111	08	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 1:00-2:50PM
EN.580.111	09	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 3:00-4:50PM
EN.580.111	10	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 3:00-4:50PM
EN.580.111	11	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 3:00-4:50PM
EN.580.111	12	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 3:00-4:50PM
EN.580.111	13	EN		BME Modeling & Design	2.00	5	Th 5:00-6:50PM; Th 12:00-12:50PM
EN.580.111	14	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 5:00-6:50PM
EN.580.111	15	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 5:00-6:50PM
EN.580.111	16	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 5:00-6:50PM
EN.580.111	17	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 12:00-1:50PM
EN.580.111	18	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 12:00-1:50PM
EN.580.111	19	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 12:00-1:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.580.111	20	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 12:00-1:50PM
EN.580.111	21	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 2:00-3:50PM
EN.580.111	22	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 2:00-3:50PM
EN.580.111	23	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 2:00-3:50PM
EN.580.111	24	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 2:00-3:50PM
EN.580.111	25	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 4:00-5:50PM
EN.580.111	26	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 4:00-5:50PM
EN.580.111	27	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 4:00-5:50PM
EN.580.111	28	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 4:00-5:50PM
EN.580.211	01	EN		BME Design Group <i>Allen, Robert H</i> Sophomore-level version of 580.311-312 or Perm. Req'd	3.00	20	TTh 4:30-5:45PM
EN.580.221	01	N		Molecules & Cells <i>Haase, Eileen B</i> Prereq: 030.101, 030.104 An introduction to modern molecular and cellular biology in the context of potential biomedical engineering applications. Topics covered: reactions between molecules, including receptor-ligand and antigen-antibody specificity, protein structure, enzyme catalysis, genetic information, protein processing and secretion, cell physiology and cell functions. Advanced quantitative treatment including multi-state kinetics, Monte Carlo simulations of biochemical reactions, and transport phenomena.	4.00	35	MWF 11:00-11:50AM; Th 10:30-11:20AM
EN.580.221	02	N		Molecules & Cells	4.00	35	MWF 11:00-11:50AM; Th 12:00-12:50PM
EN.580.221	03	N		Molecules & Cells	4.00	35	MWF 11:00-11:50AM; Th 1:30-2:20PM
EN.580.221	04	N		Molecules & Cells	4.00	35	MWF 11:00-11:50AM; Th 3:00-3:50PM
EN.580.311	01	EN		BME Design Group <i>Allen, Robert H</i> Perm. Req'd. A two-semester course sequence where juniors and seniors work with a team leader and a group of BME freshmen and sophomores, to solve open-ended problems in biomedical engineering. Upperclassmen are expected to apply their general knowledge and experience, and their knowledge in their concentration area, to teach lower classmen and to generate the solution to practical problems encountered in biomedical engineering.	3.00	30	TTh 4:30-5:45PM
EN.580.321	01	EN		Statistical Mechanics and Thermodynamics <i>Beer, Michael</i> Prereqs: Calculus I&II, Freshman/Sophomore Chemistry and Physics Basic principles of statistical physics and thermodynamics with application to biological systems. Topics include fundamental principles of thermodynamics, chemical equilibrium and thermodynamics of reactions in solutions, and elementary statistical mechanics. Prerequisites: 110.108-109, 030.101-102, 171.101-102.	4.00	35	MWF 11:00-11:50AM; T 11:00-11:50AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.580.321	02	EN		Statistical Mechanics and Thermodynamics	4.00	35	MWF 11:00-11:50AM; T 12:00-12:50PM
EN.580.321	03	EN		Statistical Mechanics and Thermodynamics	4.00	35	MWF 11:00-11:50AM; T 1:30-2:20PM
EN.580.321	04	EN		Statistical Mechanics and Thermodynamics	4.00	35	MWF 11:00-11:50AM; T 3:00-3:50PM
EN.580.410	01			BME Teaching Practicum <i>Haase, Eileen B</i> Senior biomedical engineering students will assist the core course instructors and PhD students in managing the sections and recitations and or lab component of a course.	2.00	20	TBA
EN.580.411	01	E		BME Design Group <i>Allen, Robert H</i> Perm. Req'd. Senior-level version of 580.311-312.	3.00	30	TTh 4:30-5:45PM
EN.580.413	01	E		Design-Team, Team Leader <i>Allen, Robert H</i> Perm. Req'd. A two-semester sequence where leaders direct a team of undergraduate biomedical engineering students in a series of design problems. Prior design team experience and permission of course director required.	4.00	15	TTh 4:30-5:45PM
EN.580.420	01	EN		Build-a-Genome <i>Bader, Joel S</i> Must understand fundamentals of DNA structure, DNA electrophoresis and analysis, Polymerase Chain Reaction (PCR) and must be either a) Experienced with molecular biology lab work or b) Adept at programming with a biological twist. In this combination lecture/laboratory "Synthetic Biology" course students will learn how to make DNA building blocks used in an int'l. project to build the world's first synthetic eukaryotic genome, <i>Saccharomyces cerevisiae</i> v. 2.0. Please study the wiki www.syntheticyeast.org for more details about the project. Following a biotechnology boot-camp, students will have 24/7 access to computational and wet-lab resources and will be expected to spend 15-20 hours per week on this course. Advanced students will be expected to contribute to the computational and biotech infrastructure. Successful completion of this course provides 3 credit hours toward the supervised research requirement for Molecular and Cellular Biology majors, or 2 credit hours toward the upper level elective requirement for Biology or Molecular and Cellular Biology majors.	4.00	8	MWF 5:00-6:20PM
EN.580.421	01	EN		Systems Bioengineering I <i>Trayanova, Natalia</i>	4.00	35	MW 3:00-4:15PM; F 11:00-11:50AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: 580.221 & 580.222 Limit 35 per section A quantitative, model-oriented investigation of the cardiovascular system. Topics are organized in three segments. (1) Molecular/cellular physiology, including electrical signaling and muscle contraction. (2) Systems cardiovascular physiology, emphasizing circuit-diagram analysis of hemodynamics. (3) Cardio-vascular horizons and challenges for biomedical engineers, including heart failure and its investigation/treatment by computer simulation, by gene-array analysis, by stem-cell technology, and by mechanical devices (left-ventricular assist and total-heart replacement).			
EN.580.421	02	EN		Systems Bioengineering I	4.00	35	MW 3:00-4:15PM; F 12:00-12:50PM
EN.580.421	03	EN		Systems Bioengineering I	4.00	35	MW 3:00-4:15PM; F 1:30-2:20PM
EN.580.421	04	EN		Systems Bioengineering I	4.00	35	MW 3:00-4:15PM; F 12:00-12:50PM
EN.580.423	01	N		Systems Bioengineering Lab I <i>Haase, Eileen B</i>	2.00	36	T 9:00AM-12:50PM; F 9:00-9:50AM
				Coreq: 580.421 Priority to Junior BME majors A two-semester laboratory course in which various physiological preparations are used as examples of problems of applying technology in biological systems. The emphasis in this course is on the design of experimental measurements and on physical models of biological systems.			
EN.580.423	02	N		Systems Bioengineering Lab I	2.00	36	T 1:30-5:20PM; F 9:00-9:50AM
EN.580.423	03	N		Systems Bioengineering Lab I	2.00	36	Th 4:30-5:20PM; Th 9:00AM-12:50PM
EN.580.423	04	N		Systems Bioengineering Lab I	2.00	36	Th 4:30-5:20PM; Th 1:30-4:20PM
EN.580.429	01	EN		Systems Bioengineering III <i>Bader, Joel S</i>	4.00	35	TTh 10:30-11:45AM; F 12:00-12:50PM
				Prereq: 580.221 & 580.222 or Perm. Req'd Computational and theoretical systems biology at the cellular and molecular level. Topics include organizational patterns of biological networks; analysis of metabolic networks, gene regulatory networks, and signal transduction networks; inference of pathway structure; and behavior of cellular and molecular circuits.			
EN.580.429	02	EN		Systems Bioengineering III	4.00	35	TTh 10:30-11:45AM; F 1:30-2:20PM
EN.580.429	03	EN		Systems Bioengineering III	4.00	35	TTh 10:30-11:45AM; F 12:00-12:50PM
EN.580.429	04	EN		Systems Bioengineering III	4.00	35	TTh 10:30-11:45AM; F 3:00-3:50PM
EN.580.434	01	E		Bioelectricity <i>Tung, Leslie</i>	3.00	25	TBA
				Prereq: 580.421 Recommended: 520.213 Topics will include dielectric properties of biological tissues, electromanipulation of cells, electrical stimulation, defibrillation, impedance imaging, standards for electromagnetic field exposure, and electrical safety. Special emphasis will be placed on theoretical concepts and experimental approaches used to characterize the bioelectrical properties of cardiac muscle.			
EN.580.439	01	EN		Models of the Neuron <i>Young, Eric D</i>	4.00	15	MWF 9:00-9:50AM; T 9:00-9:50AM

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				Prereq: 110.301, 580.421-422 or equivalent Single-neuron modeling, emphasizing the use of computational models as links between the properties of neurons at several levels of detail. Topics include thermodynamics of ion flow in aqueous environments, biology and biophysics of ion channels, gating, nonlinear dynamics as a way of studying the collective properties of channels in a membrane, synaptic transmission, integration of electrical activity in multi-compartment dendritic tree models, and properties of neural networks. Students will study the properties of computational models of neurons; graduate students will develop a neuron model using data from the literature. Meets with 580.639			
EN.580.441	01	E		Cellular Engineering <i>Green, Jordan</i> Prereqs: 580.221 or 020.305 and 020.306 (or equivalent) and 030.205 This course focuses on principles and applications in cell engineering. Class lectures include an overview of molecular biology fundamentals, protein/ligand binding, receptor/ligand trafficking, cell-cell interactions, cell-matrix interactions, and cell adhesion and migration at both theoretical and experimental levels. Lectures will cover the effects of physical (e.g. shear stress, strain), chemical (e.g. cytokines, growth factors) and electrical stimuli on cell function, emphasizing topics on gene regulation and signal transduction processes. Furthermore, topics in metabolic engineering, enzyme evolution, polymeric biomaterials, and drug and gene delivery will be discussed. This course is intended as Part 1 of a two-semester sequence recommended for students in the Cell and Tissue Engineering focus area. Meets with 580.641	3.00	40	TTh 3:00-4:15PM
EN.580.451	01	EN		Cell & Tissue Eng Lab <i>Haase, Eileen B</i> Senior and Graduate students only; others Perm. Req'd. Lab Fee: \$100 Cell and tissue engineering is a field that relies heavily on experimental techniques. This laboratory course will consist of three six experiments that will provide students with valuable hands-on experience in cell and tissue engineering. Students will learn basic cell culture procedures and specialized techniques related to faculty expertise in cell engineering, microfluidics, gene therapy, microfabrication and cell encapsulation. Experiments include the basics of cell culture techniques, gene transfection and metabolic engineering, basics of cell-substrate interactions I, cell-substrate interactions II, and cell encapsulation and gel contraction. Co-listed with 530.451	2.00	8	TF 12:00-1:50PM
EN.580.451	02	EN		Cell & Tissue Eng Lab	2.00	8	TF 2:00-3:50PM
EN.580.471	01	EN		Princ BME Instrumentation <i>Thakor, Nitish V</i>	4.00	16	Th 4:00-5:50PM; F 9:00AM-12:50PM

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				Prereq: 520.345 Lab Fee: \$150 Students satisfying the design requirement must also register for 580.571 This core design course will cover lectures and hands-on labs. The material covered will include fundamentals of biomedical sensors and instrumentation, FDA regulations, designing with electronics, biopotentials and ECG amplifier design, recording from heart, muscle, brain, etc., diagnostic and therapeutic devices (including pacemakers and defibrillators), applications in prosthetics and rehabilitation, and safety. The course includes extensive laboratory work involving circuits, electronics, sensor design and interface, and building complete biomedical instrumentation. The students will also carry out design challenge projects, individually or in teams (examples include "smart cane for blind," "computer interface for quadriplegic").			
EN.580.471	02	EN		Princ BME Instrumentation	4.00	16	Th 4:00-5:50PM; F 1:00-4:50PM
EN.580.472	01	E		Topics - Med Imaging Sys <i>Prince, Jerry Ladd</i> Prereq: 520-214 An introduction to the physics, instrumentation, and signal processing methods used in general radiography, X-ray computed tomography, ultrasound imaging, magnetic resonance imaging, and nuclear medicine. The primary focus is on the methods required to reconstruct images within each modality, with emphasis on the resolution, contrast, and signal-to-noise ratio of the resulting images. (Note: Beginning Fall '08 this course will permanently move to the fall semester.) Co-listed as 520.432	3.00	30	MWF 10:00-10:50AM
EN.580.492	01	EN		Build-a-Genome Mentor <i>Bader, Joel S</i> Perm. Req'd. In addition to producing and sequencing DNA segments like regular B-a-G students, mentors will help prepare and distribute reagents, and maintain a Moddle site to track student reagent use and productivity. Mentors will also be expected to mentor specific students who are learning new techniques for the first time, contribute to the computational and biotech infrastructure associated with Build-a-Genome, and pursue at least one independent research project. Successful completion of this course provides 3 credit hours toward the supervised research requirement for Molecular and Cellular Biology majors.	4.00	8	MWF 5:00-6:20PM
EN.580.495	01	EN		Microfabrication Lab <i>Andreou, Andreas</i> Seniors only Perm. Req'd. This laboratory course introduces the principles used in the construction of microelectronic devices, sensors, and micromechanical structures. Students will work in the laboratory on the fabrication and testing of a device. Accompanying lecture material covers basic processing steps, design and analysis CAD tools, and national foundry services. Co-listed with 530.495 and 520.495	4.00	4	W 1:30-2:20PM; Th 1:00-4:50PM
EN.580.495	02	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; Th 5:00-8:50PM

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Biomedical Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.580.495	03	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; F 8:00-11:50AM
EN.580.495	04	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; F 1:00-4:50PM
EN.580.495	05	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; Th 8:00-11:50AM
EN.600.476	01	EQ		Machine Learning in Complex Domains	3.00	15	MW 1:30-2:45PM

Saria, Suchi

How can robots locate themselves in an indoor environment when navigating? How do you infer which patients need attention first in the ICU? How can one identify the start of an epidemic using tweets? How does one predict the way a traffic jam will spread through the local streets during an Orioles game? How can you communicate with your TV using only hand gestures? This class will cover the fundamental concepts of Probabilistic Graphical Models as a framework for addressing questions like the ones above. We will study algorithms for model estimation, exact and approximate inference. The class will have 4 interactive sessions during which students will learn through an open discussion format how to think about open-ended real-world problems with the tools learnt in class. Students are also required to tackle a project of their choice within which they will experiment with the ideas learnt in class. Pre-reqs: Students in the class will be asked to do assignments in Matlab. Matlab is typically easy to pick up if one is already familiar with a different programming language.

- Students are expected to be mathematically mature. One should have taken at least an introductory course in probability theory and linear algebra. Though not required, exposure to optimization or machine learning is recommended. Proficiency in at least one programming language is expected. When in doubt, send the instructor a copy of your transcript to see if the class is appropriate for you. Also, sit through the first few sessions and first homework to get a sense of fit.

Prereqs: EN.550.310 OR EN.550.311 OR EN.550.420 OR EN.550.430 AND EN.550.291 OR AS.110.201.

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.660.105	01	S	W	Introduction to Business <i>Aronhime, Lawrence</i> This course is designed as an introduction to the terms, concepts, and values of business and management. The course comprises three broad categories: the economic, financial, and corporate context of business activities; the organization and management of business enterprises; and, the marketing and production of goods and services. Topic specific readings, short case studies and financial exercises all focus on the bases for managerial decisions as well as the long and short-term implications of those decisions in a global environment. No audits.	4.00	25	MWF 12:00-12:50PM; T 1:30-2:20PM
EN.660.105	02	S	W	Introduction to Business	4.00	25	MWF 12:00-12:50PM; T 1:30-2:20PM
EN.660.105	03	S	W	Introduction to Business	4.00	25	MWF 12:00-12:50PM; T 3:00-3:50PM
EN.660.105	04	S	W	Introduction to Business	4.00	25	MWF 12:00-12:50PM; W 3:00-3:50PM
EN.660.105	05	S	W	Introduction to Business	4.00	25	MWF 12:00-12:50PM; Th 1:30-2:20PM
EN.660.105	06	S	W	Introduction to Business	4.00	25	MWF 12:00-12:50PM; Th 3:00-3:50PM
EN.660.105	07	S	W	Introduction to Business <i>Quesenberry, Keith</i>	4.00	25	TTh 12:00-1:15PM; M 1:30-2:20PM
EN.660.105	08	S	W	Introduction to Business	4.00	25	TTh 12:00-1:15PM; W 3:00-3:50PM
EN.660.203	01			Financial Accounting <i>Aronhime, Lawrence</i> The course in Financial Accounting is designed for anyone who could be called upon to analyze and/or communicate financial results and/or make effective financial decisions in a for-profit business setting. No prior accounting knowledge or skill is required for successful completion of this course. Because accounting is described as the language of business, this course emphasizes the vocabulary, methods, and processes by which all business transactions are communicated. The accounting cycle, basic business transactions, internal controls, and preparation and understanding of financial statements including balance sheets, statements of income and cash flows are covered. No audits.	3.00	35	MWF 10:00-10:50AM
EN.660.203	02			Financial Accounting <i>Leps, Annette</i>	3.00	35	MW 12:00-1:15PM
EN.660.203	03			Financial Accounting <i>Furlong, Sean</i>	3.00	35	TTh 12:00-1:15PM
EN.660.203	04			Financial Accounting	3.00	35	TTh 4:30-5:45PM
EN.660.203	05			Financial Accounting <i>Staff</i>	3.00	35	M 3:00-5:45PM
EN.660.250	01			Principles of Marketing <i>Kendrick, Leslie</i>	3.00	40	MW 12:00-1:15PM

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				This course explores the role of marketing in society and within the organization. It examines the process of developing, pricing, promoting and distributing products to consumer and business markets and shows how marketing managers use the elements of the marketing mix to gain a competitive advantage. Through interactive, application-oriented exercises, case videotapes, a guest speaker (local marketer), and a group project, students will have ample opportunity to observe key marketing concepts in action. The group project requires each team to research the marketing plan for an existing product of its choice. Teams will analyze what is currently being done by the organization, choose one of the strategic growth alternatives studied, and recommend why this alternative should be adopted. The recommendations will include how the current marketing plan will need to be modified in order to implement this strategy and will be presented to the instructor in written form and presented to the class. No audits.			
EN.660.250	02			Principles of Marketing <i>Crane, Donna L</i>	3.00	35	TTh 10:30-11:45AM
EN.660.250	03			Principles of Marketing <i>DeVries, Marci</i>	3.00	35	TTh 12:00-1:15PM
EN.660.250	04			Principles of Marketing <i>Jones, Theresa Darlene</i>	3.00	35	W 6:15-9:00PM
EN.660.250	05			Principles of Marketing <i>Kendrick, Leslie</i>	3.00	40	MW 1:30-2:45PM
EN.660.308	01	S		Business Law I <i>Fisher, David</i>	3.00	35	M 6:15-9:00PM
				This course is designed to provide students an introduction to legal reasoning and analysis. Content distinguishes forms of business, civil versus criminal law, and agency principles; intellectual property concepts, contract Law, the UCC (Uniform Commercial Code) and consumer protection are explored and discussed in the context of assigned legal cases which are intended to develop a student's ability to analyze and apply law. Pre/co-requisite: 660.105 Intro to Business. No Audits			
EN.660.308	02	S		Business Law I <i>Rakes, W Bryan</i>	3.00	35	T 6:15-9:00PM
EN.660.310	01	H		Case Studies in Business Ethics <i>Sandhaus, Douglas</i>	3.00	30	T 6:15-9:00PM

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				<p>This course is designed as a workshop using case studies to introduce students to the ethical concepts that are relevant to resolve moral issues in contemporary business and social settings—both global and personal in nature. Students will learn the reasoning and analytical skills needed to apply ethical concepts to their own decision-making, to identify moral issues involved in the management of specific problem areas in business and society, and to understand the social and natural environments which give rise to moral issues. The course focus is on performance articulated by clear reasoning and effective verbal and written communication concerning ethical issues in business and society. Prerequisite: 660.105 Introduction to Business. Not open to students who have taken 660.231 Case Studies in Business Ethics. No audits.</p>			
EN.660.311	01	S		<p>Law and the Internet <i>Franceschini, Mark</i></p> <p>Sometimes called "Cyber law," this course uses the case study method to examine some of the most significant and compelling legal aspects, issues, and concerns involved with operating a business enterprise in an Internet environment. Some of the issues likely to be covered include jurisdiction, resolution of online disputes, trademarks, copyright, licenses, privacy, defamation, obscenity, the application of traditional concepts of tort liability to an Internet context, computer crime, information security, taxation, international considerations, and an analysis of other recent litigation and/or statutes. Prerequisite: 660.205/660.308 Business Law I. Note: not open to students who have taken 660.306 Law and the Internet. No audits.</p>	3.00	30	W 6:15-9:00PM
EN.660.332	01	S	W	<p>Leadership Theory <i>Smedick, William D</i></p> <p>Students will be introduced to the history of Leadership Theory from the "Great Man" theory of born leaders to Transformational Leadership theory of non-positional learned leadership. Transformational Leadership theory postulates that leadership can be learned and enhanced. The course will explore the knowledge base and skills necessary to be an effective leader in a variety of settings. Students will assess their personal leadership qualities and develop a plan to enhance their leadership potential. Recommended prerequisite: 660.105 Introduction to Business or 660.220/340 Principles of Management. No audits.</p>	3.00	30	MWF 12:00-12:50PM
EN.660.333	01		W	<p>Leading Change <i>Smedick, William D</i></p>	3.00	24	TTh 5:00-6:15PM

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				In this course, we will use a combination of presentation, discussion, experiential learning, research and self-reflection to investigate issues surrounding leadership and change in communities and the economy. While considering both for-profit and non-profit entities, we will pursue topics including understanding and using theories of change; finding competitive advantage and creating strategic plans; making decisions, even in uncertain times; valuing differences; employing leadership styles; giving and receiving feedback; understanding employee relations; creating performance measures; and developing organizational cultures; and using the dynamics of influence. Not open to students who have taken 660.235 Leading Change. Recommended prerequisite: 660.105 Introduction to Business. No audits.			
EN.660.335	01			Negotiation/Conflict <i>Rice, Eric</i>	3.00	24	T 3:00-5:45PM
				The focus of this class is the nature and practice of conflict resolution and negotiation within and between individuals and organizations. The primary format for learning in this class is structured experimental exercises designed to expose students to different aspects of negotiation and to build tangible skills through interpersonal exchange. While some class time is devoted to presentations on theories and approaches, the class method primarily relies on feedback from fellow classmates on their observations of negotiation situations and on personal reflections by students after each structured experience. Topics include conflict style, negotiation, and group conflict. Prerequisite: Introduction to Business 660.105. Recommended: an additional course in the Entrepreneurship and Management Program or in the social sciences. No audits.			
EN.660.340	01			Principles of Management <i>Reiter, Joshua</i>	3.00	35	M 1:30-4:15PM
				This course introduces the student to the management process. The course takes an integrated approach to management by examining the role of the manager from a traditional and contemporary perspective while applying decision-making and critical-thinking skills to the challenges facing managers in today's globally diverse environment. The course examines the techniques for controlling, planning, organizing resources and leading the workforce. Not open to students who have taken 660.220 Principles of Management. Prerequisite: 660.105 Introduction to Business. No audits.			
EN.660.351	01			Product and Brand Management <i>Crane, Donna L</i>	3.00	30	TTh 1:30-2:45PM

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				<p>Consumers love those little bits of crunchy orange goodness called Cheetos®. But when Frito-Lay decided that consumers might also like Cheetos®-flavored lip balm, they reacted with a hailstorm of derision. This may be proof that our free market economy is just a rudderless, if hilarious, contraption. More likely, Cheetos® Lip Balm was an example of the challenges marketers face in product and brand management. This course is a conceptual and practical exploration of how marketers deliver products and build brands that translate into competitive advantage for their companies. Among the critical concepts typically addressed in the course are developing and positioning a brand, assembling the marketing mix media into a whole, establishing price, creating packaging, and tracking the customer experience. The course uses readings, lecture, exercises, cases and examples to explore these concepts. Prerequisite: 660.250 Principles of Marketing. No audits.</p>			
EN.660.354	01			<p>Consumer Behavior <i>Crane, Donna L</i></p> <p>This course will explore how and why consumers make choices in the marketplace—the “buy-ology” of their behavior. We will learn the psychological, social, anthropological, and economic underpinnings of consumer behavior as well as the brain chemistry that affects choices in the marketplace. Students will learn how consumer behavior can and is influenced and the sometimes-unintended consequences of marketing campaigns designed to produce a particular behavior. Students will analyze how consumers solve problems, assess tradeoffs and make choices; how they integrate and react to retail surroundings, smells, product displays, brand, pricing strategies, social pressures, market structures and a myriad of other influences and motivations to buy. Students will also explore how marketers incorporate what is known about consumer behavior into advertising and promotional campaigns, market segmentation and positioning, pricing strategies and new product introductions. Student experiential projects will include ethnographic observations and analyses of real-world consumer behavior. Prerequisite: 660.250 Principles of Marketing. No audits.</p>	3.00	30	TTh 12:00-1:15PM
EN.660.355	01			<p>Sports Marketing <i>Kendrick, Leslie</i></p> <p>This course will allow students to apply marketing principles and concepts to the sports marketing environment while gaining an understanding of how event sponsorships, endorsements, licensing and naming rights are used to achieve business objectives. Through case studies and a group project, students will be exposed to a broad range of sports entities including professional sports teams, governing organizations and sports media. Prerequisite: 660.250 Principles of Marketing.</p>	3.00	35	TTh 12:00-1:15PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.660.357	01		W	Copywriting and Creative Strategy <i>Quesenberry, Keith</i> Uncover the process of creative thinking for innovation and conceiving "big ideas" in marketing. Students will be exposed to creative theory and practice as they select a consumer product and determine strategic market positioning, target demographics, media vehicles and creative guidelines. Then students will learn the craft of advertising copywriting for print, broadcast and digital media as they develop finished creative executions for the chosen organization that all build to a complete integrated marketing campaign. Prerequisite: 660.250 Principles of Marketing. Co-listed with 661.357. No audits.	3.00	12	TTh 1:30-2:45PM
EN.660.404	01	S		Business Law II <i>Fisher, David</i> Building on the material from Business Law I, topics examined include entrepreneurship, business entities and business formation, principles of agency, real property, personal property, bailments, bankruptcy, secured transactions, employment discrimination, business financing, investor protection, antitrust and environmental law. Prerequisite: 660.308 or 660.205 Business Law I. Not open to students who have taken 660.206 or 660.307 Business Law II. No audits	3.00	35	T 6:15-9:00PM
EN.660.414	01			Financial Statement Analysis <i>Leps, Annette</i> This course is designed to increase a student's ability to read and interpret financial statements and related information under both GAAP and IFRS (International Financial Reporting Standards). In addition to a review of the basic financial statements and accounting principles, the course will use industry and ratio analysis in addition to benchmarking and modeling techniques to encourage students to think in a more creative way when analyzing historic information or when forecasting financial statements. Students will assess firm profitability and risk, value assets and use spreadsheet models for financial forecasting and decision making. Prerequisite: 660.203 Financial Accounting. Not open to students who have taken 660.304 Financial Statement Analysis. No audits.	3.00	30	TTh 12:00-1:15PM
EN.660.456	01		W	Marketing Communication Law & Ethics <i>Quesenberry, Keith</i>	3.00	12	MW 12:00-1:15PM

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				This course focuses on the legal and ethical constraints of advertising and promotion marketing practice. Federal laws, media standards and professional ethics establish what can or cannot be said or done in marketing. Beyond that corporate and personal social responsibility must also be considered. Topics such as deception, copyright, publicity, comparative advertising and social media standards will be covered. Students will apply concepts to current practical examples and delve more deeply into subjects through a series of writing assignments. Prerequisite: 660.250 Principles of Marketing. Recommended prerequisite: one writing course in any discipline (professional communication, expository writing or writing seminars). Co-listed with 661.456. No audits.			
EN.660.460	01			Entrepreneurship <i>Rice, Eric</i>	3.00	25	MW 12:00-1:15PM
				This course provides students with a solid introduction to the entrepreneurial process of creating new businesses. Students will gain an appreciation for the investors' perspective in assessing opportunities, evaluating strategies, and valuing the new enterprise. The course will cover the principal components of building a successful venture including management, market analysis, intellectual property protection, legal and regulatory issues, operations, entrepreneurial financing, and the role of the capital markets. Course work will include case studies and creation of investor marketing materials. Prerequisite: 660.105 Intro to Business or 660.250 Principles of Marketing, junior or senior standing. No audits.			
EN.660.461	01	E		Engineering Business and Management <i>Agronin, Michael</i>	3.00	25	M 6:15-9:00PM
				An introduction to the business and management aspects of the engineering profession, project management, prioritization of resource allocation, intellectual property protection, management of technical projects, and product/production management. Cross-listed with Mechanical Engineering and preference will be given to Mechanical Engineering students. Recommended prerequisite: 660.105 Introduction to Business. No audits.			
EN.660.461	02	E		Engineering Business and Management <i>Izenberg, Illysa B</i>	3.00	20	TTh 9:00-10:15AM
EN.660.461	03	E		Engineering Business and Management	3.00	20	TTh 12:00-1:15PM
EN.661.110	01		W	Professional Communication for Science, Business & Industry <i>Staff</i>	3.00	20	TTh 9:00-10:15AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course teaches students to communicate effectively with a wide variety of specialized and non-specialized audiences. Projects include production of resumes, cover letters, proposals, instructions, reports, and other relevant documents. Class emphasizes writing clearly and persuasively, creating appropriate visuals, developing oral presentation skills, working in collaborative groups, giving and receiving feedback, and simulating the real world environment in which most communication occurs. No audits.			
EN.661.110	02		W	Professional Communication for Science, Business & Industry	3.00	20	TTh 10:30-11:45AM
EN.661.110	03		W	Professional Communication for Science, Business & Industry	3.00	20	TTh 10:30-11:45AM
EN.661.110	04		W	Professional Communication for Science, Business & Industry	3.00	20	TTh 12:00-1:15PM
EN.661.110	05		W	Professional Communication for Science, Business & Industry	3.00	20	TTh 1:30-2:45PM
EN.661.110	06		W	Professional Communication for Science, Business & Industry	3.00	20	MW 12:00-1:15PM
EN.661.110	07		W	Professional Communication for Science, Business & Industry	3.00	20	M 3:00-5:45PM
EN.661.110	08		W	Professional Communication for Science, Business & Industry	3.00	20	W 3:00-5:45PM
EN.661.111	01		W	Professional Communication for ESL Students <i>Davis, Laura</i> This course teaches ESL students to communicate effectively with a wide variety of specialized and non-specialized audiences and will provide ESL-specific help with grammar, pronunciation, and idiomatic expression in these different contexts. Projects include production of resumes, cover letters, proposals, instructions, reports, and other relevant documents. Class emphasizes writing clearly and persuasively, creating appropriate visuals, developing oral presentation skills, working in collaborative groups, giving and receiving feedback, and simulating the real world environment in which most communication occurs. Note: not open to students who have taken 661.110 as Technical Communication or Professional Communication for Science, Business, and Industry or 661.120 Business Communication. Co-listed with 661.611. No audits.	3.00	12	TTh 4:30-5:45PM

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EN.661.150	01		W	Oral Presentations <i>Dungey, Kevin R</i> This course is designed to help students push through any anxieties about public speaking by immersing them in a practice-intensive environment. They learn how to speak with confidence in a variety of formats and venues - Including extemporaneous speaking, job interviewing, leading a discussion, presenting a technical speech, and other relevant scenarios. Students learn how to develop effective slides that capture the main point with ease and clarity, hone their message, improve their delivery skills, and write thought-provoking, well-organized speeches that hold an audience's attention. No audits.	3.00	13	M 3:00-5:45PM
EN.661.150	02		W	Oral Presentations	3.00	13	M 6:15-9:00PM
EN.661.150	03		W	Oral Presentations <i>Reiser, Julie</i>	3.00	13	T 1:30-4:15PM
EN.661.150	04		W	Oral Presentations <i>Heiserman, Jason</i>	3.00	13	T 4:30-7:15PM
EN.661.150	05		W	Oral Presentations <i>Sheff, Pamela</i>	3.00	13	W 1:30-4:15PM
EN.661.150	06		W	Oral Presentations <i>O'Donnell, Charlotte Alyssa</i>	3.00	13	W 5:00-7:45PM
EN.661.150	07		W	Oral Presentations <i>Kulanko, Andrew</i>	3.00	13	Th 1:30-4:15PM
EN.661.150	08		W	Oral Presentations	3.00	13	Th 5:00-7:45PM
EN.661.151	01		W	Oral Presentations for ESL <i>Davis, Laura</i> This course is designed to help students push through any anxieties about public speaking by immersing them in a practice-intensive environment. They learn how to speak with confidence in a variety of formats and venues - Including extemporaneous speaking, job interviewing, leading a discussion, presenting a technical speech, and other relevant scenarios. Students learn how to develop effective slides that capture the main point with ease and clarity, hone their message, improve their delivery skills, and write thought-provoking, well-organized speeches that hold an audience's attention. Special attention will be placed on diction, pronunciation, tone, pace and emphasis of language. Additional attention also will be given to syntax as well as non-verbal communication patterns. Co-listed with 661.651. No audits.	3.00	13	W 6:00-8:45PM
EN.661.170	01			Visual Rhetoric <i>O'Donnell, Charlotte Alyssa</i> A course that aims to help students design clearer, more visually engaging graphics for a wide variety of business and technical documents. Students will learn to manage essential principles of graphic design through a variety of graphic programs (Adobe Creative Suite) and MS Office software. Topics will include logos, letterhead, event posters, brochures, data graphics and some basic web design. No audits.	3.00	15	T 1:30-4:15PM
EN.661.315	01	S	W	The Culture of the Engineering Profession	3.00	24	TTh 10:30-11:45AM

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				<i>Sheff, Pamela</i> For Engineering sophomores, juniors and seniors or by permission of instructor. This course focuses on building understanding of the culture of engineering while preparing students to communicate effectively with the various audiences with whom engineers interact. Working from a base of contemporary science writing (monographs, non-fiction, popular literature and fiction), students will engage in discussion, argument, case study and project work to investigate: the engineering culture and challenges to that culture, impacts of engineering solutions on society, ethical guidelines for the profession, and the ways engineering information is conveyed to the range of audiences for whom the information is critical. Additionally, students will master many of the techniques critical to successful communication within the engineering culture through a series of short papers and presentations associated with analysis of the writings and cases. No audits.			
EN.661.351	01	W		Corporate Communications & P.R. <i>Sheff, Pamela</i> This course focuses on the ways that organizations – both for-profit and non-profit - manage their communications to deliver strategic, coherent and compelling messages to their varied stakeholders. Using case studies and team-based, real world projects, we will explore topics including public and media relations, corporate image, branding, advertising, internal and external communications, crisis management, investor relations, ethics and social responsibility. In the process, we will consider issues ranging from organizational culture and leadership styles to defining strategy, managing conflict, defending positions and disagreeing agreeably. Prerequisite: one of the following: 661.110 Professional Communication for Science, Business & Industry, 060.113 or 060.114 Expository Writing, 060.215 Advanced Expository Writing, or 220.105 Introduction to Fiction & Poetry. Recommended prerequisites: 660.250 Principles of Marketing, 660.105 Introduction to Business, and 661.150 Oral Presentations. No audits.	3.00	30	TTh 1:30-2:45PM
EN.661.357	01	W		Copywriting & Creative Strategy <i>Quesenberry, Keith</i> Uncover the process of creative thinking for innovation and conceiving "big ideas" in marketing. Students will be exposed to creative theory and practice as they select a consumer product and determine strategic market positioning, target demographics, media vehicles and creative guidelines. Then students will learn the craft of advertising copywriting for print, broadcast and digital media as they develop finished creative executions for the chosen organization that all build to a complete integrated marketing campaign. Prerequisite: 660.250 Principles of Marketing. Co-listed with 661.357. No audits.	3.00	8	TTh 1:30-2:45PM

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Center for Leadership Education

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.661.410	01		W	Research Writing for ESL <i>Link-Farajali, Denise</i> This course is designed to help ESL writers succeed in writing, editing, and completing a large research project specific to their discipline. This could be a research report, journal article, literature review, dissertation chapter, grant proposal, or other relevant document. The course provides intensive help with grammar, idiomatic phrasing, and overall clarity for writers whose native language is not English. The course includes both individual consultation and group workshops. Undergraduates must be conducting research with a faculty member or must obtain special permission of instructor to register for the course. S/U grading only (students may elect to take this course for a traditional letter grade if their departments require them to do so; students must inform the instructor by the second week of class). Co-listed with 661.610. No audits.	3.00	5	M 6:00-8:45PM
EN.661.456	01		W	Marketing Communication Law & Ethics <i>Quesenberry, Keith</i> This course focuses on the legal and ethical constraints of advertising and promotion marketing practice. Federal laws, media standards and professional ethics establish what can or cannot be said or done in marketing. Beyond that corporate and personal social responsibility must also be considered. Topics such as deception, copyright, publicity, comparative advertising and social media standards will be covered. Students will apply concepts to current practical examples through a course blog and delve more deeply into subjects through a series of writing assignments. Recommended prerequisite: 660.250 Principles of Marketing and one writing course in any discipline (professional communication, expository writing or writing seminars). Co-listed with 660.456. No audits.	3.00	8	MW 12:00-1:15PM

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Chemical & Biomolecular Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.540.101	01	E		Chemical Eng Today <i>Dahuron, Lise</i> Freshmen Only A series of weekly lectures to introduce students to chemical and biomolecular engineering and its role as a profession in addressing contemporary technological, social, ethical, and economic issues in today's world. The lectures will include examples of how chemical and biomolecular engineers apply the principles of physics and chemistry to develop new products, improve process efficiencies, and alleviate the strain on the ecosystem through the design of novel environmentally conscious processes. In addition, the lectures will highlight exciting new areas now being advanced by chemical and biomolecular engineers, such as biochemical engineering, tissue engineering, nanoparticle fabrication, and processing smart polymers for applications in computer technology and as sensors.	1.00	120	M 1:30-2:20PM
EN.540.202	01	E		Intro Chem & Bio Process <i>Gray, Jeffrey J</i> Prereq 171.101; Co-req 030.205 Introduction to chemical and biomolecular engineering and the fundamental principles of chemical process analysis. Formulation and solution of material and energy balances on chemical processes. Reductionist approaches to the solution of complex, multi-unit processes will be emphasized. Introduction to the basic concepts of thermodynamics as well as chemical and biochemical reactions.	4.00	30	MWF 3:00-3:50PM; T 3:00-4:50PM
EN.540.202	02	E		Intro Chem & Bio Process	4.00	30	MWF 3:00-3:50PM; Th 4:30-6:20PM
EN.540.203	01	E		Engr Thermodynamics <i>Bevan, Michael</i> Prereq: 540.202 Formulation and solution of material, energy, and entropy balances with an emphasis on open systems. A systematic problem-solving approach is developed for chemical and biomolecular process-related systems. Extensive use is made of classical thermodynamic relationships and constitutive equations for one and two component systems. Applications include the analysis and design of engines, refrigerators, heat pumps, compressors, and turbines.	3.00	50	TTTh 9:00-10:15AM
EN.540.204	01	E		Applied Physical Chemistry <i>Gracias, David</i> Prereq: 540.203 The topics in this course include thermodynamic models for multicomponent phase equilibrium including vapor liquid equilibrium, phase diagrams, activity models and colligative properties in both non-electrolyte and electrolyte solutions. . A link between average thermodynamic properties and microstates and molecular interactions is made via a discussion of intermolecular forces and the partition function. Also covered are thermodynamic relationships to describe chemical equilibria, and basic concepts in quantum mechanics and statistical mechanics.	3.00	100	MWF 11:00-11:50AM

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EN.540.304	01	EN		Transport Phenomena II <i>Gagnon, Zachary</i> Prereq: 540.303 Dimensional analysis and dimensionless groups. Laminar boundary layers, introduction to turbulent flow. Definition of the friction factor. Macroscopic mass, momentum and mechanical energy balances (Bernouilli's equation). Metering of fluids. Convective heat and mass transfer. Heat and mass transfer in boundary layers. Correlations for convective heat and mass transfer. Boiling and condensation. Interphase mass transfer.	4.00	50	MWF 10:00-10:50AM; T 4:30-5:20PM
EN.540.304	02	EN		Transport Phenomena II	4.00	50	MWF 10:00-10:50AM; Th 5:00-5:50PM
EN.540.305	01	E		Modeling and Statistical Analysis of Data for Chemical and Biomolecular Engineers <i>Schulman, Rebecca</i> Prereq:: 540.202; Recommended co-reqs: 540.203, 540.303, 540.304 This course seeks to build the student's strength in Chemical Engineering computing and data analysis. To this end, in the first part of the course, we will become familiar with the Matlab/Octave computing environment and solve problems in Chemical Engineering that involve concepts from Process Analysis, Thermodynamics, Transport Phenomena, and Kinetics. In the subsequent part, we will build on the skills learnt earlier and tackle problems in Data Analysis and Hypothesis testing.	3.00	70	TTh 10:30-11:45AM
EN.540.311	01	E	W	Chemical Eng Lab I <i>Dahuron, Lise</i> Prereq: 540.301, 540.304, 540.306, 540.490, and 661.315 Students will have additional meeting times outside of class. Students are challenged with laboratory projects that are not well-defined and learn to develop an effective framework for approaching experimental work by identifying the important operating variables, deciding how best to obtain them, and using measured or calculated values of these operating variables to predict, carryout, analyze and improve upon experiments. Each student analyzes three of the following four projects: distillation, gas absorption, liquid-liquid extraction and chemical kinetics in a tubular flow reactor and also one of the projects in 540.313. In addition to technical objectives, this course stresses oral and written communication skills and the ability to work effectively in groups.	6.00	8	M 1:00-5:50PM
EN.540.311	02	E	W	Chemical Eng Lab I	6.00	4	T 1:00-5:50PM
EN.540.311	03	E	W	Chemical Eng Lab I <i>Goffin, An</i>	6.00	4	Th 1:00-5:50PM
EN.540.311	04	E	W	Chemical Eng Lab I	6.00	4	F 1:00-5:50PM
EN.540.312	01	E	W	Chemical and Biomolecular Eng Lab: Part 2 <i>Dahuron, Lise</i>	3.00	5	Th 1:30-4:30PM

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				Prereq: 540.301, 540.304, 540.306, 540.490, 661.315 Students who, as a part of an exchange program, participated in a laboratory course at the Technical University of Denmark at Copenhagen during the summer of 2010 are required to register for this course to complete their equivalency requirement for the Chemical and Biomolecular Engineering Laboratory course offered in Fall 2010 at JHU.			
				This course comprises of four parts: (i) a research-oriented study of one of the seven experiments done at Copenhagen to be submitted as a report, (ii) performance of one experimental project and submission of report along with the current Senior Lab students, (iii) a 15-min presentation of experimental work done at Copenhagen, and (iv) a 5-min presentation to the current junior class describing the overall experience.			
EN.540.313	01	E	W	Chemical and Biomolecular Engineering Lab <i>Ostermeier, Marc</i>	6.00	8	M 1:00-5:50PM
				Prereq: 540.301, 540.304, 540.306, 540.490, 661.315 Students will have additional meeting times outside of class. Students are challenged with laboratory projects that are not well-defined and learn to develop an effective framework for approaching experimental work by identifying the important operating variables, deciding how best to obtain them, and using measured or calculated values of these operating variables to predict, carryout, analyze and improve upon experiments. Each student analyzes three biomolecular engineering projects and one of the projects in 540.311. In addition to technical objectives, this course stresses oral and written communication skills and the ability to work effectively in groups.			
EN.540.313	02	E	W	Chemical and Biomolecular Engineering Lab <i>Gerecht, Sharon</i>	6.00	12	T 1:00-5:50PM
EN.540.313	03	E	W	Chemical and Biomolecular Engineering Lab <i>Goffin, An</i>	6.00	12	Th 1:00-5:50PM
EN.540.313	04	E	W	Chemical and Biomolecular Engineering Lab <i>Dahuron, Lise</i>	6.00	12	F 1:00-5:50PM
EN.540.400	01	E		Project in Design: Modeling Pharmaceutical Bioavailability <i>Donohue, Marc D</i>	3.00	18	MW 4:30-5:45PM

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				<p>This design project will be to develop a chemical process model of the human body that can be used to understand the temporal distribution, spatial distribution and bioavailability of pharmaceutical drugs. The course (and software to be developed) will cover the spectrum of factors affecting pharmaceutical bioavailability including drug formulation, mode of dosing and dosing rate, metabolism and metabolic cascades, storage in fatty tissues, and diffusional limitations (such as in crossing the blood-brain barrier or diffusional differences between normal and cancerous cells). The goal is to develop a process model of the human body that will predict pharmaceutical bioavailability as a function of time and organ (or cell) type that will work for a wide variety of pharmaceuticals including small molecules, biologics, and chemotherapy agents.</p>			
EN.540.401	01	E		<p>Projects in Design: Alternative Energy <i>Donohue, Marc D</i></p> <p>This course is a group design project (i.e. not a lecture course) to use chemical processing simulation tools (Aspen) to model a real-world process of interest to Chemical and Biomolecular Engineers. The goal of the project will be to develop a process model that is sufficiently complete and robust that it can be used to understand the important factors in the process design and/or operation.</p> <p>This design project is focused on the role alternative energy will play in our country's future. About a third of the course will be devoted to understanding the role of energy and alternative energy in the US and world economies. The remainder of the course will be devoted to a technical and economic analysis of the feasibility of making biofuel from algae.</p>	3.00	12	MW 4:30-5:45PM
EN.540.402	01	E		<p>Metabolic Systems Biotechnology <i>Betenbaugh, Michael J</i></p> <p>The aim of this course is to provide a fundamental understanding of the quantitative principles and methodologies of systems biology and biochemical engineering of metabolism. This includes concepts of cellular growth, cellular stoichiometric models, metabolic networks, metabolite fluxes, and genome-scale metabolic models. Quantitative methods and systems biology approaches for metabolic flux analysis and metabolic control theory will be included as well as an analysis of biochemical systems and bioreactors including a consideration of mass transport processes</p>	3.00	40	F 1:30-4:15PM
EN.540.409	01	EQ		<p>Modeling Dynamic/Control <i>Goffin, An</i></p>	4.00	25	MWF 10:00-10:50AM; M 1:00-1:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Coreq: 110.302 540.203, 540.301, 540.303. 020.305 and 020.306 or equivalent is recommended but not required. Introduction to modeling, dynamics, and control. Unsteady state analysis of biomolecular and chemical process control systems. State space and Laplace transform techniques, block diagram algebra, and transfer functions. Feedback and feedforward control. Frequency response and stability analysis. Model construction for biomolecular and cellular systems including pharmacokinetic modeling, biomolecular modeling using the central dogma of biology/control of gene expression, large scale biosimulation. Introduction to nonlinear dynamics.			
EN.540.409	02	EQ		Modeling Dynamic/Control	4.00	25	MWF 10:00-10:50AM; T 12:00-12:50PM
EN.540.409	03	EQ		Modeling Dynamic/Control	4.00	25	MWF 10:00-10:50AM; W 1:00-1:50PM
EN.540.409	04	EQ		Modeling Dynamic/Control	4.00	25	MWF 10:00-10:50AM; T 1:00-1:50PM
EN.540.415	01			Interfacial Science with Applications to Nanoscale Systems <i>Frechette, Joelle</i> Nanostructured materials intrinsically possess large surface area (interface area) to volume ratios. It is this large interfacial area that gives rise to many of the amazing properties and technologies associated with nanotechnology. In this class we will examine how the properties of surfaces, interfaces, and nanoscale features differ from their macroscopic behavior. We will compare and contrast fluid-fluid interfaces with solid-fluid and solid-solid interfaces, discussing fundamental interfacial physics and chemistry, as well as touching on state-of-the-art technologies.	3.00	35	MW 3:00-4:15PM
EN.540.418	01	E		Projects in the design of a chemical Car <i>Dahuron, Lise</i> Ready to put those concepts from class into practice? Members work over the course of the semester to design and build a chemically powered vehicle that will compete with other college teams at the American Institute of Chemical Engineers (AIChE) Regional Conference. In this course, the students work in small groups to design and construct the chassis along with chemically powered propulsion and break mechanisms within the constraints of the competition. In addition, students will give oral presentation, write reports, and do thorough safety analysis of their prototypes. Both semesters must be completed with passing grades to receive credit.	2.00	18	W 5:00-6:40PM

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EN.540.426	01	E		Biomacromolecules at the nanoscale <i>Wirtz, Denis</i> This course introduces modern concepts of polymer physics at the nanoscale to describe the conformation and dynamics of biological macromolecules such as filamentous actin, microtubule, and nucleic acids. We will introduce scattering techniques, nano-manipulation techniques, as well as nano-rheology applied to the study of polymers for tissue engineering, nanoparticles, and drug delivery applications.	3.00	30	MW 1:30-2:45PM
EN.540.428	01	EN		Supramolecular Materials and Nanomedicine <i>Cui, Honggang</i> Prereqs: EN.540.204 and AS.020.305 or instructor's permission. Nanomedicine is a quickly growing area that exploits the novel chemical, physical, and biological properties of nanostructures and nanostructured materials for medical treatments. This course presents basic design principles of constructing nanomaterials for use in drug delivery, disease diagnosis and imaging, and tissue engineering. Three major topics will be discussed, including 1) nanocarriers for drug delivery that are formed through soft matter assembly (e.g., surfactants, lipids, block copolymers, DNA, polyelectrolytes, peptides), 2) inorganic nanostructures for disease diagnosis and imaging (e.g., nanoparticles of gold and silver, quantum dots and carbon nanotubes), and 3) supramolecular scaffolds for tissue engineering and regenerative medicine. Students are expected to learn the physical, chemical and biological properties of each nanomaterial, the underlying physics and chemistry of fabricating such material, as well as their advantages and potential issues when used for biomedical applications. This course will also provide students opportunities for case studies on commercialized nanomedicine products. After this class, students should gain a deeper understanding of current challenges in translating nanoscience and nanotechnology.	3.00	15	TTh 9:00-10:15AM
EN.540.490	01			Chem Laboratory Safety <i>Dahuron, Lise</i> Perm. Req'd. This course is meant to provide the student with a basic knowledge of laboratory safety; hazards, regulations, personal protective equipment, good laboratory practice, elementary toxicology, and engineering controls. It has been developed by the Department of Chemical and Biomolecular Engineering to assist with regulatory compliance, minimize hazards, and reduce the severity of any incidents that may occur in the department's laboratories. The course is a prerequisite of 540.311/540.313. It is required of all Chemical and Biomolecular Engineering undergraduates. In addition once per year a three-hour refresher seminar must be taken by all students involved in laboratory research.	1.00	100	Th 3:00-4:30PM

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Civil Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.270.205	01	EN		Intro to Geographic Information Systems and Geospatial Analysis <i>Chen, Xin</i> The course provides a broad introduction to the principles and practice of Geographic Information Systems (GIS) and related tools of Geospatial Analysis. Topics will include history of GIS, GIS data structures, data acquisition and merging, database management, spatial analysis, and GIS applications. In addition, students will get hands-on experience working with GIS software. Cross-listed with DOGEE	3.00	25	MW 3:00-4:15PM
EN.560.101	01	E		Freshman Experiences in Civil Engineering <i>Sangree, Rachel H</i> An introduction to civil engineering for first-year students. This course welcomes freshmen to the major by exploring civil engineering design and the range of design projects in which professional civil engineers engage. Students will have the opportunity to practice the design process using hands-on team-based projects, with emphasis on creative design, graphical communication, and teamwork.	1.00	20	TTh 12:00-12:50PM
EN.560.201	01	E		Statics & Mechanics of Materials <i>Igusa, Takeru</i> Prereq: 171.101 or (530.103 and 530.104) or Permission Only. Basic principles of classical mechanics applied to the equilibrium of particles and rigid bodies at rest, under the influence of various force systems. In addition, the following topics are studied: free body concept, analysis of simple structures, friction, centroids and centers of gravity, and moments of inertia. Includes laboratory experience. Co-listed with 530.201.	4.00	7	TTh 10:30-11:45AM; M 4:00-5:50PM
EN.560.201	02	E		Statics & Mechanics of Materials	4.00	7	TTh 10:30-11:45AM; M 6:00-7:50PM
EN.560.201	03	E		Statics & Mechanics of Materials	4.00	7	TTh 10:30-11:45AM; T 2:00-3:40PM
EN.560.201	04	E		Statics & Mechanics of Materials	4.00	7	TTh 10:30-11:45AM; T 4:00-5:50PM
EN.560.201	05	E		Statics & Mechanics of Materials	4.00	7	TTh 10:30-11:45AM; W 4:00-5:50PM
EN.560.201	06	E		Statics & Mechanics of Materials	4.00	7	TTh 10:30-11:45AM; Th 4:00-5:50PM
EN.560.220	01	E		Civil Engineering Analysis <i>Mitrani-Reiser, Judith</i> Prereq: Calculus I, II. Civil engineering problems are formulated and then solved by numerical methods. Matrix inversion, data fitting and interpolation, root-finding, and solutions of ordinary and partial differential equations are presented. Matlab programming will be introduced to facilitate the solutions.	3.00	25	MW 12:00-1:15PM
EN.560.305	01	E		Soil Mechanics <i>De Melo, Lucas T</i> Prereq: 560.206 Coreq: 570.351 or 560.351 Basic principles of soil mechanics. Classification of soils. Compaction theory. Consolidation seepage and settlement analysis. Stress-strain and shear strength of soils. Introduction to earth pressure theories and slope stability analysis.	4.00	30	F 1:30-2:30PM; W 4:30-5:45PM; F 12:00-1:15PM
EN.560.320	01	E		Steel Structures	3.00	30	TTh 10:30-11:45AM

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Civil Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Sangree, Rachel H</i> Principles, analysis, and methodologies for conceptual and detailed design of steel structures. Emphasis on the role of mechanics in modern structural engineering design specifications with a focus on load and resistance factor design. Topics include behavior and design of hot-rolled and cold-formed steel: connections, members, frames, and advanced analysis techniques.			
EN.560.440	01	E		Applied Finite Element Methods. <i>Nakata, Narutoshi</i> Finite Element Methods (FEM) are one of the most powerful engineering tools that are widely used in various disciplines. This course introduces concepts, capabilities, and limitations of FEM and is intended to facilitate applications of FEM in student's research. The course covers fundamental theories with a focus on stiffness formulation techniques, element types, and computational procedures. The course also offers finite element programming with MATLAB.	3.00	30	MW 1:30-2:45PM
EN.560.445	01	E		Advanced Structural Analysis <i>Guest, James K</i> Prereq: 560.206 Matrix methods for the analysis of statically indeterminate structures such as beams, plane and space trusses, and plane and space frames. Stiffness and flexibility methods. Linear elastic analysis and introduction to nonlinear analysis.	3.00	35	TTh 9:00-10:15AM
EN.560.451	01	E		Civil Engineering Design I <i>Matteo, John</i> Prereq: Senior status or Perm. Req'd. A study of the engineering design process from problem definition to the final design. There are team projects which include written and oral presentations.	2.00	40	Th 4:30-6:20PM
EN.560.491	01	EN		Civil Engineering Seminar I <i>Sangree, Rachel H</i> Seminar series of speakers on various aspects of civil engineering. Juniors and seniors in Civil Engineering are expected to enroll in this sequence; juniors and seniors receive one-half credit. Different speakers are invited each semester. Satisfactory/ Unsatisfactory only	0.50	30	T 12:00-12:50PM
EN.560.492	01	EN		Civil Engineering Seminar II <i>Sangree, Rachel H</i> Prereq: 560.491 See 560.491 Seminar series of speakers on various aspects of civil engineering. Juniors and seniors in Civil Engineering are expected to enroll in this sequence; juniors and seniors receive one-half credit. Different speakers are invited each semester. Satisfactory/ Unsatisfactory only	0.50	25	T 12:00-12:50PM
EN.560.493	01	EN		Civil Engineering Seminar III <i>Sangree, Rachel H</i>	0.50	20	T 12:00-12:50PM

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Civil Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: 560.492 See 560.491 Seminar series of speakers on various aspects of civil engineering. Juniors and seniors in Civil Engineering are expected to enroll in this sequence; juniors and seniors receive one-half credit. Different speakers are invited each semester. Satisfactory/Unsatisfactory only			
EN.560.494	01	EN		Civil Engineering Seminar IV <i>Sangree, Rachel H</i>	0.50	20	T 12:00-12:50PM
				Prereq: 560.493 See 560.491 Seminar series of speakers on various aspects of civil engineering. Juniors and seniors in Civil Engineering are expected to enroll in this sequence; juniors and seniors receive one-half credit. Different speakers are invited each semester. Satisfactory/Unsatisfactory only			
EN.570.351	01	E		Intro To Fluid Mechanics <i>Wilcock, Peter Richard</i>	3.00	35	MWF 10:00-10:50AM
				Prereq: Statics, Dynamics and Differential Equations Introduction to the use of the principles of continuity, momentum, and energy to fluid motion. Topics include hydrostatics, ideal-fluid flow, laminar flow, turbulent flow.			

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Computer Science

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.600.104	01	H		Computer Ethics <i>Kosaraju, Sheela</i> Students will examine a variety of topics regarding policy, legal, and moral issues related to the computer science profession itself and to the proliferation of computers in all aspects of society, especially in the era of the Internet. The course will cover various general issues related to ethical frameworks and apply those frameworks more specifically to the use of computers and the Internet. The topics will include privacy issues, computer crime, intellectual property law -- specifically copyright and patent issues, globalization, and ethical responsibilities for computer science professionals. Work in the course will consist of weekly assignments on one or more of the readings and a final paper on a topic chosen by the student and approved by the instructor. - CS Majors Only - Alternate Weeks - (Section 01 starts Wednesday 9/4, Section 02 starts Tuesday 9/10)	1.00	20	W 6:00-8:00PM
EN.600.104	02	H		Computer Ethics	1.00	20	T 6:00-8:00PM
EN.600.105	01			M & Ms: Freshman Exp <i>Selinski, Joanne F</i> This course is required for all freshmen Computer Science majors. Transfers into the major and minors may enroll by permission only. Students will attend four 3-week blocks of meetings with different computer science professors, focused on a central theme. Active participation is required. Satisfactory/Unsatisfactory only.	1.00	35	T 4:30-5:20PM
EN.600.107	01	E		Intro Programming-Java <i>Selinski, Joanne F</i> This course introduces fundamental structured and object-oriented programming concepts and techniques, using Java, and is intended for all who plan to use computer programming in their studies and careers. Topics covered include variables, arithmetic operators, control structures, arrays, functions, recursion, dynamic memory allocation, files, class usage and class writing. Program design and testing are also covered, in addition to more advanced object-oriented concepts including inheritance and exceptions as time permits. Students will be expected to do significant programming (15-20 hours/wk). Prerequisite: familiarity with computers.	3.00	120	MW 1:30-2:45PM
EN.600.108	01	E		Intro Programming Lab <i>Selinski, Joanne F</i> Satisfactory/Unsatisfactory only. Must be taken in conjunction with 600.107 or 600.112. The purpose of this course is to give novice programmers extra hands-on practice with guided supervision. Students will work in pairs each week to develop working programs, with checkpoints for each development phase. Sections 1-3 are for 107 students, sections 4-6 are for 112 students. Co-req: 600.107 or 600.112.	1.00	16	W 6:00-9:00PM
EN.600.108	02	E		Intro Programming Lab	1.00	16	Th 4:30-7:30PM

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Computer Science

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.600.108	03	E		Intro Programming Lab	1.00	16	F 1:30-4:20PM
EN.600.108	04	E		Intro Programming Lab	1.00	16	W 6:00-9:00PM
EN.600.108	05	E		Intro Programming Lab	1.00	16	Th 4:30-7:30PM
EN.600.108	06	E		Intro Programming Lab	1.00	16	F 12:00-2:50PM
EN.600.112	01	E		Introduction to Programming for Scientists and Engineers <i>Selinski, Joanne F</i> An introductory "learning by doing" programming course for scientists, engineers, and everybody else who will need basic programming skills in their studies and careers. We cover the fundamentals of structured, modular, and (to some extent) object-oriented programming as well as important design principles and software development techniques such as unit testing and revision control. We will apply our shiny new programming skills by developing computational solutions to a number of real-world problems from a variety of disciplines. Students new to computer programming are encouraged to enroll into 600.108 Intro Programming Lab concurrently with this course. Students may receive credit for no more than one of the following: 600.107 or 600.111 or 600.112. [Note: This course may not be used for the CS major or minor requirements, except as a substitute for 600.107.]	3.00	120	MW 12:00-1:15PM
EN.600.120	01	E		Intermediate Programming <i>Amir, Yair</i> This course teaches intermediate to advanced programming, using C and C++. (Prior knowledge of these languages is not expected.) We will cover low-level programming techniques, as well as object-oriented class design, and the use of class libraries. Specific topics include pointers, dynamic memory allocation, polymorphism, overloading, inheritance, templates, collections, exceptions, and others as time permits. Students are expected to learn syntax and some language specific features independently. Course work involves significant programming projects in both languages. Prereq: AP CS, 600.107, 600.111/112 or equivalent.	4.00	24	MWF 1:30-2:45PM
EN.600.120	02	E		Intermediate Programming	4.00	24	MWF 3:00-4:15PM
EN.600.120	03	E		Intermediate Programming	4.00	24	MWF 4:30-5:45PM
EN.600.226	01	EQ		Data Structures <i>Staff</i> This course covers the design and implementation of data structures including collections, sequences, trees, and graphs. Other topics include sorting, searching, and hashing. Course work involves both written homework and Java programming assignments. Prereq: AP CS or 600.107 or 600.120 or equivalent.	4.00	75	MWF 12:00-1:15PM
EN.600.233	01	E		Computer System Fundamentals <i>Froehlich, Peter</i>	3.00	60	MWF 10:00-10:50AM

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				Formerly 600.333/433 CSF addresses the design and performance of the principal operational components of a reduced-instruction-set computing system (RISC) which supports the efficient execution of widely used instruction sets. Arithmetic and logic units, memory hierarchy designs, state-machine controllers, and other related hardware and firmware components are studied, and the qualities of their combined processing capabilities are assessed by means of execution times associated with a range of benchmark programs. Assembly language programming projects, homework problems, and exams are employed to assess a student's fundamental understanding of the tradeoffs resulting from an assortment of variations in digital system design decisions that ultimately characterize the performance of the computing system architecture that is developed. [Systems] Prereq: intro programming. Students may receive credit for only one of 600.233, 600.333 or 600.433.			
EN.600.255	01	E		Introduction to Video Game Design <i>Froehlich, Peter</i> Prereq: sophomores and above, permission of instructor; Co-req: 600.256. A broad survey course in video game design (as opposed to mathematical game theory), covering artistic, technical, as well as sociological aspects of video games. Students will learn about the history of video games, archetypal game styles, computer graphics and programming, user interface and interaction design, graphical design, spatial and object design, character animation, basic game physics, plot and character development, as well as psychological and sociological impact of games. Students will design and implement an experimental video game in interdisciplinary teams of 3-4 students as part of a semester-long project. Section 1 requires technical skills, including at least one programming course (preferably 2 or more). Section 2 requires artistic skills, including at least one multimedia course (preferably 2 or more).	3.00	20	MW 4:30-5:45PM
EN.600.255	02	E		Introduction to Video Game Design	3.00	20	MW 4:30-5:45PM
EN.600.256	01			Introduction to Video Game Design Lab <i>Froehlich, Peter</i> Co-req: 600.255. A lab course in support of 600.255: Introduction to Video Game Design covering a variety of multi-media techniques and applications from image processing, through sound design, to 3D modeling and animation. See 600.255: Introduction to Video Game Design for details about enrolling.	1.00	12	M 6:00-9:00PM
EN.600.256	02			Introduction to Video Game Design Lab	1.00	12	T 6:00-9:00PM
EN.600.256	03			Introduction to Video Game Design Lab	1.00	12	W 6:00-9:00PM
EN.600.256	04			Introduction to Video Game Design Lab	1.00	12	Th 6:00-9:00PM
EN.600.315	01	E		Databases <i>Yarowsky, David</i>	3.00	30	TTh 3:00-4:15PM

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				Introduction to database management systems and database design, focusing on the relational and object-oriented data models, query languages and query optimization, transaction processing, parallel and distributed databases, recovery and security issues, commercial systems and case studies, heterogeneous and multimedia databases, and data mining. [Systems] (www.cs.jhu.edu/~yarowsky/cs415.html) Prereq: 600.226. Students may receive credit for 600.315 or 600.415, but not both.			
EN.600.321	01	E		Object Oriented Software Engineering <i>Smith, Scott F</i> This course covers object-oriented software construction methodologies and their application. The main component of the course is a large team project on a topic of your choosing. Course topics covered include object-oriented analysis and design, UML, design patterns, refactoring, program testing, code repositories, team programming, and code reviews. [Systems or Applications] (http://pl.cs.jhu.edu/oose/index.shtml) Prereq: 600.226 and 600.120. Students may receive credit for 600.321 or 600.421, but not both.	3.00	40	MW 1:30-2:45PM
EN.600.323	01	E		Data-Intensive Computing <i>Burns, Randal</i> Data-Intensive Computing is an experiential education course in computing with massive data sets that covers the software, algorithms, and systems used to ingest, store, and analyze. Specific topics include: NoSQL software systems including key/value stores and graph databases, scientific python, array databases, (semi)-external memory array and graph algorithms, extract-transform-load (ETL) processing, spatial indexing, OpenCL GPU code acceleration, and performance management of clusters. The course will utilize the unique computing resources at JHU, including the DataScope (5PB of storage), the GPU cluster (110 TFlops), and the Homewood High Performance Computing Cluster (1600 cores). The entire course will take place in several lengthy lab sessions each week. Course time will be divided roughly into team projects (30%), ad-hoc tasks (50%), presentation (10%) and using collaboration tools for concurrent reading and authoring and interactive self-assessment. [Systems] Pre-requisite:600.320 or 420 Parallel Programming	3.00	8	MW 3:00-7:00PM
EN.600.357	01	EQ		Computer Graphics <i>Kazhdan, Michael</i> No Audits; Prereq: 600.120 (C++) and 600.226, linear algebra. Permission of instructor is required for students not satisfying a pre-requisite. This course introduces computer graphics techniques and applications, including image processing, rendering, modeling and animation. Students may receive credit for 600.357 or 600.457, but not both. [Applications]	3.00	20	MWF 11:00-11:50AM

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EN.600.361	01	EQ		Computer Vision <i>Hager, Gregory</i> This course gives an overview of fundamental methods in computer vision from a computational perspective. Methods studied include: camera systems and their modeling; computation of 3-D geometry from binocular stereo, motion, and photometric stereo; and object recognition. Edge detection and color perception are covered as well. Elements of machine vision and biological vision are also included. [Applications] (https://cirl.lcsr.jhu.edu/Vision_Syllabus)	3.00	20	TTh 3:00-4:15PM
EN.600.363	01	EQ		Intro To Algorithms <i>Kosaraju, S Rao</i> This course concentrates on the design of algorithms and the rigorous analysis of their efficiency. topics include the basic definitions of algorithmic complexity (worst case, average case); basic tools such as dynamic programming, sorting, searching, and selection; advanced data structures and their applications (such as union-find); graph algorithms and searching techniques such as minimum spanning trees, depth-first search, shortest paths, design of online algorithms and competitive analysis. [Analysis] Prereq: 600.226 and 550.171 or Perm. Req'd. Students may receive credit for 600.363 or 600.463, but not both.	3.00	30	TTh 1:30-2:45PM
EN.600.415	01	E		Databases <i>Yarowsky, David</i> Graduate level version of 600.315. Students may receive credit for 600.315 or 600.415, but not both. [Systems] (www.cs.jhu.edu/~yarowsky/cs415.html) Prereq: 600.226.	3.00	40	TTh 3:00-4:15PM
EN.600.421	01	E		Object Oriented Software Engineering <i>Smith, Scott F</i> Graduate level version of 600.321. Students may receive credit for 600.321 or 600.421, but not both. [Systems or Applications] (http://pl.cs.jhu.edu/oose/index.shtml) Prereq: 600.226 and 600.120	3.00	40	MW 1:30-2:45PM
EN.600.423	01	E		Data-Intensive Computing <i>Burns, Randal</i> Graduate student version of 600.323. [Systems] Prereq: 600.320/420. Students may receive credit for 600.323 or 600.423, but not both.	3.00	15	MW 3:00-7:00PM
EN.600.439	01	E		Computational Genomics <i>Langmead, Benjamin</i>	3.00	20	MW 3:00-4:15PM

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				<p>Your genome is the blueprint for the molecules in your body. It's also a string of letters (A, C, G and T) about 3 billion letters long. How does this string give rise to you? Your heart, your brain, your health? This, broadly speaking, is what genomics research is about. This course will familiarize you with a breadth of topics from the field of computational genomics. The emphasis is on current research problems, real-world genomics data, and efficient software implementations for analyzing data. Topics will include: string matching, sequence alignment and indexing, assembly, and sequence models. Course will involve significant programming projects. [Applications] Prereq: 600.120 & 600.226.</p>			
EN.600.442	01	EQ		<p>Modern Cryptography <i>Pappacena, Christopher J</i> This course focuses on cryptographic algorithms, formal definitions, hardness assumptions, and proofs of security. Topics include number-theoretic problems, pseudo-randomness, block and stream ciphers, public-key cryptography, message authentication codes, and digital signatures. [Analysis] Prerequisite: 600.226 and a 300-level or above systems course; 600.271/471 and 550.171 or equivalent.</p>	3.00	30	TTh 4:30-5:45PM
EN.600.443	01	E		<p>Security & Privacy in Computing <i>Rubin, Aviel D</i> Lecture topics will include computer security, network security, basic cryptography, system design methodology, and privacy. There will be a heavy work load, including written homework, programming assignments, exams and a comprehensive final. The class will also include a semester-long project that will be done in teams and will include a presentation by each group to the class. [Applications] Prerequisite: A basic course in operating systems and networking, or permission of instructor.</p>	3.00	45	MW 1:30-2:45PM
EN.600.445	01	E		<p>Computer Integrated Surgery I <i>Taylor, Russell H</i> This course focuses on computer-based techniques, systems, and applications exploiting quantitative information from medical images and sensors to assist clinicians in all phases of treatment from diagnosis to preoperative planning, execution, and follow-up. It emphasizes the relationship between problem definition, computer-based technology, and clinical application and includes a number of guest lectures given by surgeons and other experts on requirements and opportunities in particular clinical areas. [Applications] (http://www.cisst.org/~cista/445/index.html) Prereq: 600.120, 600.226 and linear algebra or permission of instructor. Recmd: 600.457, 600.461, image processing.</p>	4.00	50	TTh 1:30-2:45PM
EN.600.450	01	E		<p>Network Embedded Systems & Sensor Networks</p>	3.00	20	TTh 12:00-1:15PM

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				<i>Terzis, Andreas</i> Prerequisites: 600.226, 600.120 and 600.344/600.444. This course is an introduction to fundamental concepts of networked embedded systems and wireless sensor networks. It is intended for juniors, seniors and first year graduate students in Computer Science and other engineering majors with the prerequisite background. Covered topics include: embedded systems programming concepts, low power and power aware design, radio technologies, communication protocols for ubiquitous computing systems, and some of the mathematical foundation of sensor behavior. Laboratory work consists of a set of programming assignments that consider a set of the issues described in class. [Systems] Cross-listed with Information Security Institute			
EN.600.457	01	EQ		Computer Graphics <i>Kazhdan, Michael</i> Graduate level version of 600.357. Students may receive credit for 600.357 or 600.457, but not both. [Applications] No Audits; Prereq: 600.120 (C++), 600.226, linear algebra. Permission of instructor is required for students not satisfying a pre-requisite.	3.00	20	MWF 11:00-11:50AM
EN.600.460	01	E		Software Vulnerability Analysis <i>Checkoway, Stephen F</i> [Co-listed with 650.460.] This course will examine vulnerabilities in C source, stack overflows, writing shell code, etc. Also, vulnerabilities in web applications: SQL Injection, cookies, as well as vulnerabilities in C binary fuzzing, and exploit development without source among other topics.	3.00	15	TTh 1:30-2:45PM
EN.600.461	01	EQ		Computer Vision <i>Hager, Gregory</i> Graduate version of 600.361. Students may receive credit for 600.361 or 600.461, but not both. [Applications] (https://cirl.lcsr.jhu.edu/Vision_Syllabus) Prereq: 600.226 & linear algebra	3.00	50	TTh 3:00-4:15PM
EN.600.463	01	EQ		Algorithms I <i>Kosaraju, S Rao</i> Graduate version of 600.363. Students may receive credit for 600.363 or 600.463, but not both.	3.00	30	TTh 1:30-2:45PM
EN.600.465	01	E		Prereq: 600.226 and 550.171 or Perm. req'd. Natural Language Processing <i>Eisner, Jason</i>	3.00	40	MWF 3:00-3:50PM

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				<p>This course is an in-depth overview of techniques for processing human language. How should linguistic structure and meaning be represented? What algorithms can recover them from text? And crucially, how can we build statistical models to choose among the many legal answers? The course covers methods for trees (parsing and semantic interpretation), sequences (finite-state transduction such as morphology), and words (sense and phrase induction), with applications to practical engineering tasks such as information retrieval and extraction, text classification, part-of-speech tagging, speech recognition and machine translation. There are a number of structured but challenging programming assignments. [Applications] (www.cs.jhu.edu/~jason/465) Prerequisite: 600.226.</p>			
EN.600.467	01	E		<p>Wireless Networks <i>Haberman, Brian</i></p> <p>This course covers the basics of mobile communication and wireless networking for computer science majors by keeping a balance between communication and networking topics. In this course the students will be exposed to wireless transmission fundamentals (path loss, shadowing, modulation, coding and channel models), wireless cellular networks (cellular concept, channel reuse, capacity limits, and cellular systems such as GSM, GPRS and UMTS), and learn about mobile network and transport layers, medium access control protocols, wireless local area networks (IEEE 802.11), wireless mesh networks (IEEE 802.16), and emerging dynamic spectrum access networks based on cognitive radios. [Systems] Prerequisites: 600.344/444 or equivalent.</p>	3.00	30	TTh 3:00-4:15PM
EN.600.469	01	EQ		<p>Approximation Algorithms <i>Braverman, Vladimir</i></p> <p>This course provides an introduction to approximation algorithms. Topics include vertex cover, TSP, Steiner trees, cuts, greedy approach, linear and semi-definite programming, primal-dual method, and randomization. Additional topics will be covered as time permits. There will be a final project. Students may receive credit for 600.469 or 600.669, but not both. [Analysis] Prereqs: 600.363 or 600.463 or permission</p>	3.00	20	TTh 1:30-2:45PM
EN.600.471	01	EQ		<p>Theory of Computation <i>Staff</i></p> <p>This is a graduate-level course studying the theoretical foundations of computer science. Topics covered will be models of computation from automata to Turing machines, computability, complexity theory, randomized algorithms, inapproximability, interactive proof systems and probabilistically checkable proofs. Students may not take both 600.271 and 600.471, unless one is for an undergrad degree and the other for grad. [Analysis] Prerequisite: 550.171 or permission.</p>	3.00	40	TBA
EN.600.476	01	EQ		<p>Machine Learning in Complex Domains</p>	3.00	15	MW 1:30-2:45PM

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				<p><i>Saria, Suchi</i></p> <p>How can robots locate themselves in an indoor environment when navigating? How do you infer which patients need attention first in the ICU? How can one identify the start of an epidemic using tweets? How does one predict the way a traffic jam will spread through the local streets during an Orioles game? How can you communicate with your TV using only hand gestures? This class will cover the fundamental concepts of Probabilistic Graphical Models as a framework for addressing questions like the ones above. We will study algorithms for model estimation, exact and approximate inference. The class will have 4 interactive sessions during which students will learn through an open discussion format how to think about open-ended real-world problems with the tools learnt in class. Students are also required to tackle a project of their choice within which they will experiment with the ideas learnt in class. Pre-reqs: Students in the class will be asked to do assignments in Matlab. Matlab is typically easy to pick up if one is already familiar with a different programming language. - Students are expected to be mathematically mature. One should have taken at least an introductory course in probability theory and linear algebra. Though not required, exposure to optimization or machine learning is recommended. Proficiency in at least one programming language is expected. When in doubt, send the instructor a copy of your transcript to see if the class is appropriate for you. Also, sit through the first few sessions and first homework to get a sense of fit. Prereqs: EN.550.310 OR EN.550.311 OR EN.550.420 OR EN.550.430 AND EN.550.291 OR AS.110.201.</p>			
EN.600.491	01	E		<p>Computer Sci Workshop I</p> <p><i>Staff</i></p> <p>An applications-oriented, computer science project done under the supervision and with the sponsorship of a faculty member in the Department of Computer Science. Computer Science Workshop provides a student with an opportunity to apply theory and concepts of computer science to a significant project of mutual interest to the student and a Computer Science faculty member. Permission to enroll in CSW is granted by the faculty sponsor after his/her approval of a project proposal from the student. Interested students are advised to consult with Computer Science faculty members before preparing a Computer Science Workshop project proposal.</p>			None
EN.600.491	05	E		<p>Computer Sci Workshop I</p> <p><i>Smith, Scott F</i></p>			None
EN.600.491	06	E		<p>Computer Sci Workshop I</p> <p><i>Selinski, Joanne F</i></p>			None
EN.600.491	13	E		<p>Computer Sci Workshop I</p> <p><i>Yarowsky, David</i></p>			None
EN.600.491	28	E		<p>Computer Sci Workshop I</p> <p><i>Froehlich, Peter</i></p>			None

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Electrical & Computer Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.510.418	01	EN		Electronic and Photonic Processes and Devices <i>Poehler, Theodore O</i> This course is intended for advanced undergraduates and graduate students and will cover the fundamentals and properties of electronic and optical materials and devices. Subject matter will include a detailed and comprehensive discussion of the physical processes underlying modern electronic and optical devices. Detailed descriptions of modern semiconductor devices such as lasers and detectors used in optical communications and information storage and processing will be presented. Also listed as 510.618/418.	3.00	25	TTh 9:00-10:15AM
EN.520.137	01	EQ		Intro to Elec & Comp Eng <i>Tran, Trac Duy</i> An introductory course covering the principles of electrical engineering including sinusoidal wave forms, electrical measurements, digital circuits, and applications of electrical and computer engineering. Laboratory exercises, the use of computers, and a design project are included in the course.	3.00	50	MWF 12:00-12:50PM
EN.520.137	02	EQ		Intro to Elec & Comp Eng	3.00	40	MWF 12:00-12:50PM
EN.520.211	02	E		ECE Engineering Team Project <i>Kang, Jin U</i> This course introduces the student to the basics of engineering team projects. The student will become a member of and participate in the different aspects of an ECE team project over several semesters. Permission of the instructor is required for Freshmen and new team members. (Freshmen and Sophomores)	1.00	50	WTh 4:30-5:45PM
EN.520.211	03	E		ECE Engineering Team Project	1.00	50	WTh 4:30-5:45PM
EN.520.213	01	E		Circuits <i>Weinert, Howard L</i> Prereq: 110.108-109 An introductory course on electric circuits covers analysis techniques in time and frequency domains, transient and steady state response, and operational amplifiers.	4.00	80	TTh 1:30-2:45PM; Th 3:00-3:50PM
EN.520.219	01	EN		Fields, Matter & Waves <i>Foster, Mark A</i> Prereq: 171.101-102, 110.108-109; Coreq: 110.202 Vector analysis, electrostatic fields in vacuum and material media, stationary currents in conducting media, magnetostatic fields in vacuum and material media. Maxwell's equations and time-dependent electric and magnetic fields, electromagnetic waves and radiation, transmission lines, wave guides, applications.	3.00	50	MW 3:00-4:15PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.520.315	01	E		Introduction to Information Processing of Sensory Signals <i>Hermansky, Hynes</i> Prerequisites: 520.214 (or 580.222) or consent of the instructor. An introductory course to basic concepts of information processing of human communication signals (sounds, images,..) in living organisms and by machine. Cross-listed with Biomedical Engineering	3.00	30	TTh 10:30-11:45AM
EN.520.345	01	E		ECE Laboratory <i>Foster, Amy C</i> Prereq: 171.101-102, 520.213 This course consists of 11 one-week laboratory experiments intended to provide an introduction to analog and digital circuits commonly used in engineering. Topics include phase and frequency response, transistors, operational amplifiers, filters, and other analog circuits. The experiments are done using computer controlled digital oscilloscopes, function generators, and power supplies.	3.00	30	Th 1:00-3:50PM; W 2:00-2:50PM
EN.520.345	02	E		ECE Laboratory	3.00	30	F 1:00-3:50PM; W 2:00-2:50PM
EN.520.345	03	E		ECE Laboratory	3.00	30	W 2:00-2:50PM; F 9:00-11:50AM
EN.520.349	01	E		Microprocessor Lab I <i>Glaser, Robert E</i> Prereq: 520.142 or equivalent This course introduces the student to the programming of microprocessors at the machine level. 68HC08, 8051, and eZ8 microcontrollers are programmed in assembly language for embedded control purposes. The architecture, instruction set, and simple input/output operations are covered for each family. Upon completion, students can use these flash-based chips as elements in other project courses.	3.00	20	Th 8:00-8:50AM; Th 10:30AM-1:20PM
EN.520.349	02	E		Microprocessor Lab I	3.00	20	Th 8:00-8:50AM; Th 1:30-4:20PM
EN.520.391	01	E		CAD Design of Digital VLSI Systems I (Juniors) <i>Pouliquen, Philippe O</i> Juniors Only Prereq: 520.142, 520.216 or equiv.; Coreq: 600.333, 600.334, 520.349 or 520.372 An introductory course in which students, manually and through computer simulations, design digital CMOS integrated circuits and systems. The design flow covers transistor, physical, and behavioral level descriptions, using SPICE, Layout, and VerilogHD1 VLSI CAD tools. After design computer verification, students can fabricate and test their semester-long class projects.	3.00	10	TBA
EN.520.401	01	E		Basic Communication <i>Davidson, Frederic</i>	3.00	45	MWF 11:00-11:50AM

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				This course covers the principles of modern analog and digital communication systems. Topics include: amplitude modulation formats (DSB, SSC VSB), exponential modulation formats(PM, FM) , superheterodyne receivers, digital representation of analog signals, sampling theorem, pulse code modulation formats (PCM, DPCM, DM, spread-spectrum), signals with additive Gaussian noise, maximum likelihood receiver design, matched filtering, and bit error rate analyses of digital communication systems.			
EN.520.407	01	E		Introduction to the Physics of Electronic Devices <i>Khurgin, Jacob</i> Prereq: 171-101-102, 520.219 This course is designed to develop and enhance the understanding of the basic physical processes taking place in the electronic and optical devices and to prepare students for taking classes in semiconductor devices and circuits, optics, lasers, and microwaves devices, as well as graduate courses. Both classical and quantum approaches are used. Specific topics include theory of molecular bonding; basics of solid state theory; mechanical, transport, magnetic, and optical properties of the metals; semiconductors; and dielectrics.	3.00	20	MW 1:30-2:45PM
EN.520.414	01	E		Image Processing & Analysis <i>Goutsias, John I</i> Prereq: 520.214 The course covers fundamental methods for the processing and analysis of images and describes standard and modern techniques for the understanding of images by humans and computers. Topics include elements of visual perception, sampling and quantization, image transforms, image enhancement, color image processing, image restoration, image segmentation, and multiresolution image representation. Laboratory exercises demonstrate key aspects of the course.	3.00	50	MW 4:30-5:45PM
EN.520.419	01	EQ		Iterative Algorithms <i>Meyer, Gerard G</i> Prereq: 110.201-202 An introduction to the study of the structure, behavior and design of iterative algorithms. Topics include problem formulations, algorithm description and classification, the deterministic iterative (DI) schema, doubling schema, cluster point sets, periodic points, DI schemas without stop rule, the monotonic DI schema, contractive and affine maps, bounded and Cauchy sequences, asymptotically regular sequences, monotonic sequences.	3.00	50	MWF 9:00-9:50AM
EN.520.424	01	EQ		FPGA Synthesis Lab <i>Jenkins, Robert E</i>	3.00	13	T 3:00-5:20PM; Th 3:00-4:50PM

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				An advanced laboratory course in the application of FPGA technology to information processing, using VHDL synthesis methods for hardware development. The student will use commercial CAD software for VHDL simulation and synthesis, and implement their systems in programmable XILINX 20,000 gate FPGA devices. The lab will consist of a series of digital projects demonstrating VHDL design and synthesis methodology, building up to final projects at least the size of an 8-bit RISC computer. Projects will encompass such things as system clocking, flip-flop registers, state-machine control, and arithmetic. The students will learn VHDL methods as they proceed through the lab projects, and prior experience with VHDL is not a pre-requisite.			
EN.520.424	02	EQ		FPGA Synthesis Lab	3.00	13	Th 3:00-4:50PM; M 3:00-5:20PM
EN.520.432	01	E		Medical Imaging Systems <i>Prince, Jerry Ladd</i> An introduction to the physics, instrumentation, and signal processing methods used in general radiography, X-ray computed tomography, ultrasound imaging, magnetic resonance imaging, and nuclear medicine. The primary focus is on the methods required to reconstruct images within each modality, with emphasis on the resolution, contrast, and signal-to-noise ratio of the resulting images. Co-listed as 580.472	3.00	60	MWF 10:00-10:50AM
EN.520.435	01	E		Digital Signal Processing <i>Weinert, Howard L</i> Prereq: 520.214 Methods for processing discrete-time signals. Topics include signal and system representations, z- transforms, sampling, discrete Fourier transforms, fast Fourier transforms, digital filters.	3.00	40	TTh 10:30-11:45AM
EN.520.445	01	E		Audio Signal Processing <i>Elhilali, Mounya</i> Prereq: knowledge of Fourier analysis and signal processing or permission of instructors. This course gives a foundation in current audio and speech technologies, and covers techniques for sound processing by processing and pattern recognition, acoustics, auditory perception, speech production and synthesis, speech estimation. The course will explore applications of speech and audio processing in human computer interfaces such as speech recognition, speaker identification, coding schemes (e.g. MP3), music analysis, noise reduction. Cross-listed with BME	3.00	40	TTh 10:30-11:45AM
EN.520.452	02	E		Advanced ECE Engineering Team Project <i>Kang, Jin U</i> (Junior and Seniors) This course introduces the student to running an ECE engineering team project. The student will participate in the team project as a leading member and is expected to manage both the team members and the different aspects of the project over several semesters. Permission of the instructor is required for new team members.	3.00	50	WTh 4:30-5:45PM
EN.520.452	03	E		Advanced ECE Engineering Team Project	3.00	50	WTh 4:03-5:45PM

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Electrical & Computer Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.520.454	01	EN		Control Systems Design <i>Iglesias, Pablo A</i> Classical and modern control systems design methods. Topics include formulation of design specifications, classical design of compensators, state variable and observer based feedback. Computers are used extensively for design, and laboratory experiments are included. Prereq: 520.353, 110.201	3.00	24	MWF 9:00-9:50AM
EN.520.457	01	E		Basics of Wave and Quantum Mechanics <i>Kaplan, Alexander E</i> Prerequisites: 171.101-102, 520.219-220. Basic principles of quantum mechanics for engineers. Topics include the quantum theory of simple systems, in particular atoms and engineered quantum wells, the interaction of radiation and atomic systems, and examples of application of the quantum theory to lasers and solid-state devices. Prerequisites: 171.101-102 and 520.219-220.	3.00	25	TBA
EN.520.491	01	E		CAD Design of Digital VLSI Systems I (Seniors/Grads) <i>Pouliquen, Philippe O</i> Seniors and Graduate Students Only	3.00	20	TBA
EN.520.495	01	EN		Microfabrication Lab <i>Andreou, Andreas</i> Seniors only or Perm. Req'd. This laboratory course is an introduction to the principles of microfabrication for microelectronics, sensors, MEMS, and other synthetic microsystems that have applications in medicine and biology. Course comprises of laboratory work and accompanying lectures that cover silicon oxidation, aluminum evaporation, photoresist deposition, photolithography, plating, etching, packaging, design and analysis CAD tools, and foundry services. Co-listed as 580.495 & 530.495	4.00	4	W 1:30-2:20PM; Th 1:00-4:50PM
EN.520.495	02	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; Th 5:00-8:50PM
EN.520.495	03	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; F 8:00-11:50AM
EN.520.495	04	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; F 1:00-4:50PM
EN.520.495	05	EN		Microfabrication Lab	4.00	4	Th 8:00-11:50AM; W 1:30-2:20PM
EN.520.498	01	E		Senior Design Project <i>Prince, Jerry Ladd</i> Instructor permission required. Capstone design project, in which a team of students engineers a system and evaluates its performance in meeting design criteria and specifications. Example application areas are micro-electronic information processing, image processing, speech recognition, control, communications, and biomedical instrumentation. The design needs to demonstrate creative thinking and experimental skills, and needs to draw upon knowledge in basic sciences, mathematics, and engineering sciences. Interdisciplinary participation, such as by biomedical engineering, mechanical engineering, and computer science majors, is strongly encouraged.	3.00	10	None

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Electrical & Computer Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.520.498	02	E		Senior Design Project <i>Elhilali, Mounya</i>	3.00	10	None
EN.520.498	03	E		Senior Design Project <i>Kang, Jin U</i>	3.00	10	None
EN.520.498	04	E		Senior Design Project <i>Andreou, Andreas</i>	3.00	10	None
EN.520.498	06	E		Senior Design Project <i>Tran, Trac Duy</i>	3.00	10	None
EN.520.498	07	E		Senior Design Project <i>Tarraf, Danielle</i>	3.00	10	None
EN.520.498	08	E		Senior Design Project <i>West, James E</i>	3.00	10	None
EN.580.472	01	E		Topics - Med Imaging Sys <i>Prince, Jerry Ladd</i> Prereq: 520-214 An introduction to the physics, instrumentation, and signal processing methods used in general radiography, X-ray computed tomography, ultrasound imaging, magnetic resonance imaging, and nuclear medicine. The primary focus is on the methods required to reconstruct images within each modality, with emphasis on the resolution, contrast, and signal-to-noise ratio of the resulting images. (Note: Beginning Fall '08 this course will permanently move to the fall semester.) Co-listed as 520.432	3.00	30	MWF 10:00-10:50AM

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Entrepreneurship and Management

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.660.105	01	S	W	Introduction to Business <i>Aronhime, Lawrence</i> This course is designed as an introduction to the terms, concepts, and values of business and management. The course comprises three broad categories: the economic, financial, and corporate context of business activities; the organization and management of business enterprises; and, the marketing and production of goods and services. Topic specific readings, short case studies and financial exercises all focus on the bases for managerial decisions as well as the long and short-term implications of those decisions in a global environment. No audits.	4.00	25	MWF 12:00-12:50PM; T 1:30-2:20PM
EN.660.105	02	S	W	Introduction to Business	4.00	25	MWF 12:00-12:50PM; T 1:30-2:20PM
EN.660.105	03	S	W	Introduction to Business	4.00	25	MWF 12:00-12:50PM; T 3:00-3:50PM
EN.660.105	04	S	W	Introduction to Business	4.00	25	MWF 12:00-12:50PM; W 3:00-3:50PM
EN.660.105	05	S	W	Introduction to Business	4.00	25	MWF 12:00-12:50PM; Th 1:30-2:20PM
EN.660.105	06	S	W	Introduction to Business	4.00	25	MWF 12:00-12:50PM; Th 3:00-3:50PM
EN.660.105	07	S	W	Introduction to Business <i>Quesenberry, Keith</i>	4.00	25	TTh 12:00-1:15PM; M 1:30-2:20PM
EN.660.105	08	S	W	Introduction to Business	4.00	25	TTh 12:00-1:15PM; W 3:00-3:50PM
EN.660.203	01			Financial Accounting <i>Aronhime, Lawrence</i> The course in Financial Accounting is designed for anyone who could be called upon to analyze and/or communicate financial results and/or make effective financial decisions in a for-profit business setting. No prior accounting knowledge or skill is required for successful completion of this course. Because accounting is described as the language of business, this course emphasizes the vocabulary, methods, and processes by which all business transactions are communicated. The accounting cycle, basic business transactions, internal controls, and preparation and understanding of financial statements including balance sheets, statements of income and cash flows are covered. No audits.	3.00	35	MWF 10:00-10:50AM
EN.660.203	02			Financial Accounting <i>Leps, Annette</i>	3.00	35	MW 12:00-1:15PM
EN.660.203	03			Financial Accounting <i>Furlong, Sean</i>	3.00	35	TTh 12:00-1:15PM
EN.660.203	04			Financial Accounting	3.00	35	TTh 4:30-5:45PM
EN.660.203	05			Financial Accounting <i>Staff</i>	3.00	35	M 3:00-5:45PM
EN.660.250	01			Principles of Marketing <i>Kendrick, Leslie</i>	3.00	40	MW 12:00-1:15PM

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Entrepreneurship and Management

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course explores the role of marketing in society and within the organization. It examines the process of developing, pricing, promoting and distributing products to consumer and business markets and shows how marketing managers use the elements of the marketing mix to gain a competitive advantage. Through interactive, application-oriented exercises, case videotapes, a guest speaker (local marketer), and a group project, students will have ample opportunity to observe key marketing concepts in action. The group project requires each team to research the marketing plan for an existing product of its choice. Teams will analyze what is currently being done by the organization, choose one of the strategic growth alternatives studied, and recommend why this alternative should be adopted. The recommendations will include how the current marketing plan will need to be modified in order to implement this strategy and will be presented to the instructor in written form and presented to the class. No audits.			
EN.660.250	02			Principles of Marketing <i>Crane, Donna L</i>	3.00	35	TTh 10:30-11:45AM
EN.660.250	03			Principles of Marketing <i>DeVries, Marci</i>	3.00	35	TTh 12:00-1:15PM
EN.660.250	04			Principles of Marketing <i>Jones, Theresa Darlene</i>	3.00	35	W 6:15-9:00PM
EN.660.250	05			Principles of Marketing <i>Kendrick, Leslie</i>	3.00	40	MW 1:30-2:45PM
EN.660.308	01	S		Business Law I <i>Fisher, David</i>	3.00	35	M 6:15-9:00PM
				This course is designed to provide students an introduction to legal reasoning and analysis. Content distinguishes forms of business, civil versus criminal law, and agency principles; intellectual property concepts, contract Law, the UCC (Uniform Commercial Code) and consumer protection are explored and discussed in the context of assigned legal cases which are intended to develop a student's ability to analyze and apply law. Pre/co-requisite: 660.105 Intro to Business. No Audits			
EN.660.308	02	S		Business Law I <i>Rakes, W Bryan</i>	3.00	35	T 6:15-9:00PM
EN.660.310	01	H		Case Studies in Business Ethics <i>Sandhaus, Douglas</i>	3.00	30	T 6:15-9:00PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course is designed as a workshop using case studies to introduce students to the ethical concepts that are relevant to resolve moral issues in contemporary business and social settings—both global and personal in nature. Students will learn the reasoning and analytical skills needed to apply ethical concepts to their own decision-making, to identify moral issues involved in the management of specific problem areas in business and society, and to understand the social and natural environments which give rise to moral issues. The course focus is on performance articulated by clear reasoning and effective verbal and written communication concerning ethical issues in business and society. Prerequisite: 660.105 Introduction to Business. Not open to students who have taken 660.231 Case Studies in Business Ethics. No audits.			
EN.660.311	01	S		Law and the Internet <i>Franceschini, Mark</i> Sometimes called "Cyber law," this course uses the case study method to examine some of the most significant and compelling legal aspects, issues, and concerns involved with operating a business enterprise in an Internet environment. Some of the issues likely to be covered include jurisdiction, resolution of online disputes, trademarks, copyright, licenses, privacy, defamation, obscenity, the application of traditional concepts of tort liability to an Internet context, computer crime, information security, taxation, international considerations, and an analysis of other recent litigation and/or statutes. Prerequisite: 660.205/660.308 Business Law I. Note: not open to students who have taken 660.306 Law and the Internet. No audits.	3.00	30	W 6:15-9:00PM
EN.660.332	01	S	W	Leadership Theory <i>Smedick, William D</i> Students will be introduced to the history of Leadership Theory from the "Great Man" theory of born leaders to Transformational Leadership theory of non-positional learned leadership. Transformational Leadership theory postulates that leadership can be learned and enhanced. The course will explore the knowledge base and skills necessary to be an effective leader in a variety of settings. Students will assess their personal leadership qualities and develop a plan to enhance their leadership potential. Recommended prerequisite: 660.105 Introduction to Business or 660.220/340 Principles of Management. No audits.	3.00	30	MWF 12:00-12:50PM
EN.660.333	01		W	Leading Change <i>Smedick, William D</i>	3.00	24	TTh 5:00-6:15PM

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				In this course, we will use a combination of presentation, discussion, experiential learning, research and self-reflection to investigate issues surrounding leadership and change in communities and the economy. While considering both for-profit and non-profit entities, we will pursue topics including understanding and using theories of change; finding competitive advantage and creating strategic plans; making decisions, even in uncertain times; valuing differences; employing leadership styles; giving and receiving feedback; understanding employee relations; creating performance measures; and developing organizational cultures; and using the dynamics of influence. Not open to students who have taken 660.235 Leading Change. Recommended prerequisite: 660.105 Introduction to Business. No audits.			
EN.660.335	01			Negotiation/Conflict <i>Rice, Eric</i>	3.00	24	T 3:00-5:45PM
				The focus of this class is the nature and practice of conflict resolution and negotiation within and between individuals and organizations. The primary format for learning in this class is structured experimental exercises designed to expose students to different aspects of negotiation and to build tangible skills through interpersonal exchange. While some class time is devoted to presentations on theories and approaches, the class method primarily relies on feedback from fellow classmates on their observations of negotiation situations and on personal reflections by students after each structured experience. Topics include conflict style, negotiation, and group conflict. Prerequisite: Introduction to Business 660.105. Recommended: an additional course in the Entrepreneurship and Management Program or in the social sciences. No audits.			
EN.660.340	01			Principles of Management <i>Reiter, Joshua</i>	3.00	35	M 1:30-4:15PM
				This course introduces the student to the management process. The course takes an integrated approach to management by examining the role of the manager from a traditional and contemporary perspective while applying decision-making and critical-thinking skills to the challenges facing managers in today's globally diverse environment. The course examines the techniques for controlling, planning, organizing resources and leading the workforce. Not open to students who have taken 660.220 Principles of Management. Prerequisite: 660.105 Introduction to Business. No audits.			
EN.660.351	01			Product and Brand Management <i>Crane, Donna L</i>	3.00	30	TTh 1:30-2:45PM

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				<p>Consumers love those little bits of crunchy orange goodness called Cheetos®. But when Frito-Lay decided that consumers might also like Cheetos®-flavored lip balm, they reacted with a hailstorm of derision. This may be proof that our free market economy is just a rudderless, if hilarious, contraption. More likely, Cheetos® Lip Balm was an example of the challenges marketers face in product and brand management. This course is a conceptual and practical exploration of how marketers deliver products and build brands that translate into competitive advantage for their companies. Among the critical concepts typically addressed in the course are developing and positioning a brand, assembling the marketing mix media into a whole, establishing price, creating packaging, and tracking the customer experience. The course uses readings, lecture, exercises, cases and examples to explore these concepts. Prerequisite: 660.250 Principles of Marketing. No audits.</p>			
EN.660.354	01			<p>Consumer Behavior <i>Crane, Donna L</i></p> <p>This course will explore how and why consumers make choices in the marketplace—the “buy-ology” of their behavior. We will learn the psychological, social, anthropological, and economic underpinnings of consumer behavior as well as the brain chemistry that affects choices in the marketplace. Students will learn how consumer behavior can and is influenced and the sometimes-unintended consequences of marketing campaigns designed to produce a particular behavior. Students will analyze how consumers solve problems, assess tradeoffs and make choices; how they integrate and react to retail surroundings, smells, product displays, brand, pricing strategies, social pressures, market structures and a myriad of other influences and motivations to buy. Students will also explore how marketers incorporate what is known about consumer behavior into advertising and promotional campaigns, market segmentation and positioning, pricing strategies and new product introductions. Student experiential projects will include ethnographic observations and analyses of real-world consumer behavior. Prerequisite: 660.250 Principles of Marketing. No audits.</p>	3.00	30	TTh 12:00-1:15PM
EN.660.355	01			<p>Sports Marketing <i>Kendrick, Leslie</i></p> <p>This course will allow students to apply marketing principles and concepts to the sports marketing environment while gaining an understanding of how event sponsorships, endorsements, licensing and naming rights are used to achieve business objectives. Through case studies and a group project, students will be exposed to a broad range of sports entities including professional sports teams, governing organizations and sports media. Prerequisite: 660.250 Principles of Marketing.</p>	3.00	35	TTh 12:00-1:15PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.660.357	01		W	Copywriting and Creative Strategy <i>Quesenberry, Keith</i> Uncover the process of creative thinking for innovation and conceiving "big ideas" in marketing. Students will be exposed to creative theory and practice as they select a consumer product and determine strategic market positioning, target demographics, media vehicles and creative guidelines. Then students will learn the craft of advertising copywriting for print, broadcast and digital media as they develop finished creative executions for the chosen organization that all build to a complete integrated marketing campaign. Prerequisite: 660.250 Principles of Marketing. Co-listed with 661.357. No audits.	3.00	12	TTh 1:30-2:45PM
EN.660.404	01	S		Business Law II <i>Fisher, David</i> Building on the material from Business Law I, topics examined include entrepreneurship, business entities and business formation, principles of agency, real property, personal property, bailments, bankruptcy, secured transactions, employment discrimination, business financing, investor protection, antitrust and environmental law. Prerequisite: 660.308 or 660.205 Business Law I. Not open to students who have taken 660.206 or 660.307 Business Law II. No audits	3.00	35	T 6:15-9:00PM
EN.660.414	01			Financial Statement Analysis <i>Leps, Annette</i> This course is designed to increase a student's ability to read and interpret financial statements and related information under both GAAP and IFRS (International Financial Reporting Standards). In addition to a review of the basic financial statements and accounting principles, the course will use industry and ratio analysis in addition to benchmarking and modeling techniques to encourage students to think in a more creative way when analyzing historic information or when forecasting financial statements. Students will assess firm profitability and risk, value assets and use spreadsheet models for financial forecasting and decision making. Prerequisite: 660.203 Financial Accounting. Not open to students who have taken 660.304 Financial Statement Analysis. No audits.	3.00	30	TTh 12:00-1:15PM
EN.660.456	01		W	Marketing Communication Law & Ethics <i>Quesenberry, Keith</i>	3.00	12	MW 12:00-1:15PM

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Entrepreneurship and Management

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<p>This course focuses on the legal and ethical constraints of advertising and promotion marketing practice. Federal laws, media standards and professional ethics establish what can or cannot be said or done in marketing. Beyond that corporate and personal social responsibility must also be considered. Topics such as deception, copyright, publicity, comparative advertising and social media standards will be covered. Students will apply concepts to current practical examples and delve more deeply into subjects through a series of writing assignments. Prerequisite: 660.250 Principles of Marketing. Recommended prerequisite: one writing course in any discipline (professional communication, expository writing or writing seminars). Co-listed with 661.456. No audits.</p>			
EN.660.460	01			<p>Entrepreneurship <i>Rice, Eric</i></p> <p>This course provides students with a solid introduction to the entrepreneurial process of creating new businesses. Students will gain an appreciation for the investors' perspective in assessing opportunities, evaluating strategies, and valuing the new enterprise. The course will cover the principal components of building a successful venture including management, market analysis, intellectual property protection, legal and regulatory issues, operations, entrepreneurial financing, and the role of the capital markets. Course work will include case studies and creation of investor marketing materials. Prerequisite: 660.105 Intro to Business or 660.250 Principles of Marketing, junior or senior standing. No audits.</p>	3.00	25	MW 12:00-1:15PM
EN.660.461	01	E		<p>Engineering Business and Management <i>Agronin, Michael</i></p> <p>An introduction to the business and management aspects of the engineering profession, project management, prioritization of resource allocation, intellectual property protection, management of technical projects, and product/production management. Cross-listed with Mechanical Engineering and preference will be given to Mechanical Engineering students. Recommended prerequisite: 660.105 Introduction to Business. No audits.</p>	3.00	25	M 6:15-9:00PM
EN.660.461	02	E		<p>Engineering Business and Management <i>Izenberg, Illysa B</i></p>	3.00	20	TTh 9:00-10:15AM
EN.660.461	03	E		<p>Engineering Business and Management</p>	3.00	20	TTh 12:00-1:15PM

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General Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.500.101	01	E		What Is Engineering? <i>Staff</i> Freshmen only or Perm. Req'd. This is a course of lectures, laboratories, and special projects. Its objective is to introduce students not only to different fields of engineering but also to the analytic tools and techniques that the profession uses. Assignments include hands-on and virtual experiments, oral presentations of product design, and design/construction/testing of structures	3.00	35	TTh 1:30-3:20PM
EN.500.103	01	E		Hopkins Engineering Sampler Seminar <i>Scheinerman, Edward</i> Freshmen only This course provides students with an overview of the undergraduate programs in the Whiting School of Engineering. Faculty from various departments will introduce students to their discipline including aspects of their personal research.	1.00	100	M 4:00-5:30PM
EN.500.125	01	E		Spatial Reasoning and Visualization for Engineers <i>Ferrara, Katrina JoAnn</i> This course will enhance students ability to imagine and mentally manipulate objects in three-dimensional space---a talent that is important in engineering. Through guided practice and fun hands-on activities, students will hone their spatial skills. This course is only for engineering freshmen. Registration is by invitation only, based on the results of the summer spatial reasoning diagnostic assessment. S/U only.	1.00	60	T 3:30-4:30PM
EN.500.125	02	E		Spatial Reasoning and Visualization for Engineers	1.00	60	Th 3:30-4:30PM
EN.500.200	01	EQ		Computing for Eng & Sci <i>Staff</i> Prereq: 110.109 Section 01 is for Juniors and Seniors Only; Section 02 is for Sophmores Only. This course introduces a variety of techniques for solving problems in engineering and science on a computer using MATLAB. Topics include structure and operation of a computer, the programming language MATLAB, computational mathematics, and elementary numerical analysis.	3.00	25	TTh 10:30-11:50AM
EN.500.200	02	EQ		Computing for Eng & Sci	3.00	25	TTh 10:30-11:50AM
EN.500.401	01			Research Laboratory Safety <i>Kuespert, Daniel</i> An introduction to laboratory safety including chemical, biological, radiation, and physical hazards. Includes information on hazard assessment techniques, laboratory emergencies, and general lab standards for Whiting School of Engineering. The class will feature hands-on exercises with real-life experiments. Intended for students who have not yet begun working in a research laboratory.	1.00	50	M 1:30-2:45PM
EN.500.401	04			Research Laboratory Safety	1.00	50	Th 12:00-1:15PM
EN.670.495	01	EN		Animation in Nanotechnology & Medicine <i>Searson, Peter C</i>	3.00	10	TBA

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Geography & Environmental Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.270.205	01	EN		Intro to Geographic Information Systems and Geospatial Analysis <i>Chen, Xin</i> The course provides a broad introduction to the principles and practice of Geographic Information Systems (GIS) and related tools of Geospatial Analysis. Topics will include history of GIS, GIS data structures, data acquisition and merging, database management, spatial analysis, and GIS applications. In addition, students will get hands-on experience working with GIS software. Cross-listed with DOGEE	3.00	25	MW 3:00-4:15PM
AS.280.335	01	N		The Environment and Your Health <i>Trush, Michael A</i> This course surveys the basic concepts underlying environmental health sciences (toxicology, exposure assessment, risk assessment), current public health issues (hazardous waste, water- and food - borne diseases) and emerging global health threats (global warming, built environment, ozone depletion, sustainability). Cross-listed with Earth and Planetary Sciences and Geography and Environmental Engineering – PHS, GECS, and EPS majors have 1st priority for enrollment. Your enrollment may be withdrawn at the discretion of the instructor if you are not a GECS, PHS, or EPS major.	3.00	250	TTh 4:30-5:45PM
AS.360.147	01	HS	W	Adam Smith and Karl Marx <i>Jelavich, Peter</i> Freshmen Seminar. This freshmen seminar examines the ideas of Smith, the greatest proponent of the free market, and Marx, his most radical critic. Freshmen only.	3.00	20	W 1:30-4:00PM
EN.570.108	01	E		Intro Environmental Eng <i>Alavi, Hedy V</i> Overview of environmental engineering including water/air quality issues, water supply/wastewater treatment, hazardous/solid waste management, pollution prevention, global environmental issues, public health considerations/environmental laws, regulations and ethics. Cross listed with Public Health Studies	3.00	70	TTh 12:00-1:15PM
EN.570.205	01	N		Ecology <i>Brush, Grace S</i> Introduction to processes governing the organization of individual organisms into populations, communities, and ecosystems. Interactions between individual organisms, groups of organisms, and the environment, including adaptation, natural selection, competition.	3.00	50	MWF 11:00-11:50AM
EN.570.285	01	HS		Understanding Aid: Anthropological Perspectives for Technology-Based Interventions <i>Ball, William P</i>	3.00	40	TTh 12:00-1:15PM

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Geography & Environmental Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.570.301	01	EN		<p>This course combines anthropological perspectives with the discussion and examination of technology-based interventions in the field of development and aid policies, with particular focus on activities related to water resources, sanitation, and hygiene. Readings and discussions analyze some of the theoretical, historically rooted, and practical issues that challenge those who hope to provide effective aid. A key aim of this course is to provide students with better understanding of cultural, social, environmental and economic issues relevant to technical intervention in developing countries.</p> <p>Environmental Engineering Fundamentals I <i>Chen, Kai Loon</i></p>	3.00	50	MWF 1:30-2:20PM
EN.570.305	01	EQ		<p>Fundamentals and applications of physical and chemical processes in the natural environment and engineered systems. This class will cover material balances, chemical equilibrium, chemical kinetics, vapor pressure, dissolution, sorption, acid-base reactions, transport phenomena, reactor design, water quality, and environmental implications of nanotechnology.</p> <p>Enviro Eng Systems Design <i>Ellis, Joseph Hugh</i></p> <p>Techniques from systems analysis applied to environmental engineering design and management problems: reservoir management, power plant siting, nuclear waste management, air pollution control, and transportation planning. Design projects are required.</p>	4.00	30	TTh 10:30-11:45AM
EN.570.320	01	ES		<p>Topics on Appropriate and Sustainable Technology for Developing Communities <i>Ball, William P</i></p> <p>Lectures, readings and discussions on general and location-specific issues related to collaborative student projects about appropriate technology-based interventions. Focus is on improving student understanding about some of the environmental, social, health, and economic issues relevant to the development of sustainable technical interventions for under-developed communities and about the role of engineers in designing, planning, implementing, and evaluating such interventions.</p>	1.00	20	T 4:30-5:30PM
EN.570.334	01	QS		<p>Engineering Microecon <i>Norman, Catherine S</i></p> <p>Prereq: 2 semesters of Calculus. This course uses a calculus-based approach to introduce principles of engineering economics and microeconomics (demand and production theory) and their uses in engineering decision making.</p>	3.00	30	TTh 9:00-10:15AM
EN.570.351	01	E		<p>Intro To Fluid Mechanics <i>Wilcock, Peter Richard</i></p> <p>Prereq: Statics, Dynamics and Differential Equations Introduction to the use of the principles of continuity, momentum, and energy to fluid motion. Topics include hydrostatics, ideal-fluid flow, laminar flow, turbulent flow.</p>	3.00	35	MWF 10:00-10:50AM
EN.570.353	01	S		<p>Hydrology</p>	3.00	35	TTh 1:30-2:45PM

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				<i>Harman, Ciaran</i> The occurrence, distribution, movement, and properties of the waters of the Earth. Topics include precipitation, infiltration, evaporation, transpiration, groundwater, and streamflow. Analyzes include the frequency of floods and droughts, time-series analyzes, flood routing, and hydrologic synthesis and simulation. Prereq: Differential equations, fluid mechanics.			
EN.570.395	01	EN		Principles of Estuarine Environment: Chesapeake Bay <i>Brush, Grace S</i> Topics include the physical, chemical, and biological components of the Chesapeake Bay ecosystem from the time it started to form some 10,000 to 12,000 years ago, when sea level began to rise as the continental glaciers receded; the geology, geomorphology, and biology of the watershed drained by the estuary; relationships between the watershed and the estuary through the millennia and the effect of climate, geomorphology, and humans on the ecology of the ecosystem and its economic productivity.	3.00	35	T 6:00-9:00PM
EN.570.402	01	E		Practicum on Appropriate and Sustainable Technology for Developing Communities <i>Ball, William P</i> Suggested: Microeconomics, Introductory Statistics and Optimization.	2.00	10	M 2:30-3:30PM; W 4:30-6:00PM
EN.570.403	01	N	W	Ecology <i>Brush, Grace S</i> This is a graduate level of 570.205; Additional Writing Requirements	3.00	50	MWF 11:00-11:50AM
EN.570.406	01	HS	W	Environmental History <i>Schoenberger, Erica</i> Environmental history explores the interactions between social change and environmental transformation, or the ways in which societies modify landscapes and are themselves affected by geological, climatological and changing ecological conditions. Topics include the relationship between climate change and human evolution, the environmental impacts of market-based commodity production and regional economic specialization; the relationship between urbanization and environmental change; how warfare affects and is affected by environmental conditions.	3.00	25	F 1:00-3:50PM
EN.570.411	01	EN		Engineering Microbiology <i>Bouwer, Edward J</i> Fundamental aspects of microbiology and biochemistry as related to environmental pollution and water quality control processes, biogeochemical cycles, microbiological ecology, energetics and kinetics of microbial growth, and biological fate of pollutants.	4.00	40	TTh 9:00-10:15AM; Th 2:00-4:50PM; Th 6:00-8:50PM

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EN.570.419	01	E		Environ Eng Design I <i>Bouwer, Edward J</i> Through general lectures and case study examples, this course will expose students to some of the non-technical professional issues that they will face as professional engineers and in their second-semester senior design project.	2.00	40	T 4:30-6:30PM
EN.570.428	01	S	W	Problems in Applied Economics <i>Hanke, Steve H</i> Permission Required. This course brings the principles of economic theory to bear upon particular problems in the fields of economics, finance and public policy. Micro, macro and international problems, from both the private and public sectors, are addressed. A heavy emphasis is placed on research and writing. Students learn how to properly conduct substantive economic research, utilizing statistical techniques and lessons from economic history. Findings are presented in the form of either memoranda or working papers. Exceptional work may be suitable for publication through the Johns Hopkins Institute for Applied Economics, Global Health, and the Study of Business Enterprise.	3.00	29	TBA
EN.570.442	01	EN		Enviro Organic Chemistry <i>Roberts, A Lynn</i> Prereq: 030.104 or Perm. Req'd. Advanced undergraduate/graduate course focusing on examination of processes that affect the behavior and fate of anthropogenic organic contaminants in aquatic environments. Students learn to predict chemical properties influencing transfers between hydrophobic organic chemicals, air, water, sediments, and biota, based on a fundamental understanding of intermolecular interactions and thermodynamic principles.	3.00	20	TTh 10:30-11:45AM
EN.570.443	01	EN		Aquatic Chemistry <i>Stone, Alan T</i> Prereq: One year of both Chemistry and Calculus. Equilibrium speciation of natural waters, biofluids, and engineered systems. Electrolyte solutions, acids and bases, complex formation, precipitation and dissolution, oxidation and reduction.	3.00	60	MWF 12:00-12:50PM

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EN.570.445	01	E		Phys/Chem Processes I <i>Ball, William P</i> Prereq: 570.301-302 or permission of the instructor. The application of basic physical and chemical concepts to the analysis of environmental engineering problems. Principles of chemical equilibrium and reaction, reaction engineering, interphase mass transfer, and adsorption are presented in the context of process design for unit operations in common use for water and wastewater treatment. Topics addressed include mass balances, hydraulic characteristics of reactors, reaction kinetics and reactor design, gas transfer processes (including both fundamentals of mass transfer and design analysis), and adsorption processes (including both fundamentals of adsorption and design analysis).	3.00	30	MWF 9:00-9:50AM
EN.570.470	01	QS	W	Applied Econ & Finance <i>Hanke, Steve H</i> Prerequisite EN.660.203 – Permission Required. This course focuses on company valuations, using the proprietary Hanke-Guttridge Discounted Free Cash Flow Model. Students use the model and data from financial statements filed with the Securities and Exchange Commission to calculate the value of publicly-traded companies. Using Monte Carlo simulations, students also generate forecast scenarios, project likely share-price ranges and assess potential gains/losses. Stress is placed on using these simulations to diagnose the subjective market expectations contained in current objective market prices, and the robustness of these expectations. During the weekly seminar, students' company valuations are reviewed and critiqued.	3.00	15	F 1:30-4:30PM
EN.570.487	01	S	W	Financial Market Research <i>Hanke, Steve H</i> Permission Required. This course investigates the workings of financial, foreign exchange, and commodity futures markets. Research is focused on price behavior, speculation, and hedging in these markets. Extensive research and writing is required. Exceptional work may be suitable for publication through the Johns Hopkins Institute for Applied Economics, Global Health, and the Study of Business Enterprise.	3.00	10	TBA
EN.570.490	01	E		Solid Waste Engineering and Management <i>Alavi, Hedy V</i> This course covers advanced engineering and scientific concepts and principles applied to the management of municipal solid waste (MSW) to protect human health and the environment and the conservation of limited resources through resource recovery and recycling of waste material.	3.00	40	Th 3:00-6:00PM
EN.570.492	01			Department Seminar - Undergraduates <i>Chen, Kai Loon</i> Undergraduates only with permission of instructor	1.00	40	T 3:00-4:50PM

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EN.570.493	01	QS		Economic Foundations For Public Decision Making <i>Norman, Catherine S</i> Prereqs: 180.101-102, 110.202 or equivalent, 2 semesters of calculus. This course includes an exposition of intermediate level price theory, combined with a survey of applications to the analysis of public sector decisions. Theoretical topics include demand, supply, the function and behavior of the market, and introductory welfare economics.	3.00	20	TTh 9:00-10:15AM
EN.570.495	01	EQ		Mathematical Foundations For Public Decision Making <i>Hobbs, Benjamin F</i> Prereq: Calculus I & II A collection of systems analytic techniques which are frequently used in the study of public decision making is presented. Emphasis is on mathematical programming techniques. Primarily linear programming, integer and mixed-integer programming, and multiobjective programming.	3.00	40	TTh 10:30-11:45AM
EN.570.497	01	EQ		Risk and Decision Analysis <i>Guikema, Seth</i> Prereq: Intro. Statistics This course introduces the methods of probabilistic risk and decision analysis. Topics will include risks in daily life, public attitudes towards risk, fault trees, event trees, decision trees, utility functions, risk attitude, and value of information calculations.	3.00	40	W 6:30-9:10PM

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Information Security Institute

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.600.415	01	E		Databases <i>Yarowsky, David</i> Graduate level version of 600.315. Students may receive credit for 600.315 or 600.415, but not both. [Systems] (www.cs.jhu.edu/~yarowsky/cs415.html) Prereq: 600.226.	3.00	40	TTh 3:00-4:15PM
EN.600.421	01	E		Object Oriented Software Engineering <i>Smith, Scott F</i> Graduate level version of 600.321. Students may receive credit for 600.321 or 600.421, but not both. [Systems or Applications] (http://pl.cs.jhu.edu/oose/index.shtml) Prereq: 600.226 and 600.120	3.00	40	MW 1:30-2:45PM
EN.600.442	01	EQ		Modern Cryptography <i>Pappacena, Christopher J</i> This course focuses on cryptographic algorithms, formal definitions, hardness assumptions, and proofs of security. Topics include number-theoretic problems, pseudo-randomness, block and stream ciphers, public-key cryptography, message authentication codes, and digital signatures. [Analysis] Prerequisite: 600.226 and a 300-level or above systems course; 600.271/471 and 550.171 or equivalent.	3.00	30	TTh 4:30-5:45PM
EN.600.443	01	E		Security & Privacy in Computing <i>Rubin, Aviel D</i> Lecture topics will include computer security, network security, basic cryptography, system design methodology, and privacy. There will be a heavy work load, including written homework, programming assignments, exams and a comprehensive final. The class will also include a semester-long project that will be done in teams and will include a presentation by each group to the class. [Applications] Prerequisite: A basic course in operating systems and networking, or permission of instructor.	3.00	45	MW 1:30-2:45PM
EN.600.450	01	E		Network Embedded Systems & Sensor Networks <i>Terzis, Andreas</i> Prerequisites: 600.226, 600.120 and 600.344/600.444. This course is an introduction to fundamental concepts of networked embedded systems and wireless sensor networks. It is intended for juniors, seniors and first year graduate students in Computer Science and other engineering majors with the prerequisite background. Covered topics include: embedded systems programming concepts, low power and power aware design, radio technologies, communication protocols for ubiquitous computing systems, and some of the mathematical foundation of sensor behavior. Laboratory work consists of a set of programming assignments that consider a set of the issues described in class. [Systems] Cross-listed with Information Security Institute	3.00	20	TTh 12:00-1:15PM
EN.600.463	01	EQ		Algorithms I	3.00	30	TTh 1:30-2:45PM

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				<i>Kosaraju, S Rao</i> Graduate version of 600.363. Students may receive credit for 600.363 or 600.463, but not both. Prereq: 600.226 and 550.171 or Perm. req'd.			
EN.600.471	01	EQ		Theory of Computation <i>Staff</i> This is a graduate-level course studying the theoretical foundations of computer science. Topics covered will be models of computation from automata to Turing machines, computability, complexity theory, randomized algorithms, inapproximability, interactive proof systems and probabilistically checkable proofs. Students may not take both 600.271 and 600.471, unless one is for an undergrad degree and the other for grad. [Analysis] Prerequisite: 550.171 or permission.	3.00	40	TBA
EN.650.414	01	S		Rights in Digital Age <i>Jacobs, Michael</i> (This course will be taught in Washington, DC and video-cast into Hodson Hall Rm 213.) This course will examine various legal and policy issues presented by the tremendous growth in computer technology, especially the Internet. The rights that various parties have with respect to creating, modifying, using, distributing, storing, and copying digital data will be explored. The concurrent responsibilities, and potential liabilities, of those parties will also be addressed. The course will focus on intellectual property issues, especially copyright law, and other legal and economic considerations related to the use and management of digital data. Copyright law and its role within the framework of intellectual property law will be presented in a historical context with an emphasis on its applicability to emerging-technology issues. Specifically, the treatment of various works, such as music, film, and photography that were traditionally, analog in nature will be analyzed with respect to their treatment in the digital domain; works that are by their nature digital, such as computer software, will also be analyzed. The current state of U.S. copyright law will be presented, as will relevant international treaties and foreign laws. The goal of the course is to provide those involved or interested in digital rights management with a general awareness of the rights and obligations associated with maintaining and distributing digital data.	3.00	30	M 3:30-6:00PM
EN.650.433	01	E		Embedded Comp. Systems <i>Kalb, George E</i> Depart. Majors Only Course taught On-line This course provides an understanding of differences in network-based computers, program mobility, current intrusion protection technologies and exploitation methods along with material relating to computer hacking and vulnerability assessment.	3.00	25	None
EN.650.457	01	E		Computer Forensics	3.00	25	W 5:30-8:50PM

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				<i>Fairbanks, Kevin D</i> This course introduces students to the field of computer forensics and it will focus on the various contemporary policy issues and applied technologies. Topics to be covered include: legal and regulatory issues, investigation techniques, data analysis approaches, and incident response procedures for Windows and UNIX systems. Homework in this course will relate to laboratory assignments and research exercises. Students should also expect that a group project will be integrated into this course.			
EN.650.458	01	E		Introduction to Cryptography <i>Li, Xiangyang</i> Permission of instructor only. Cryptography has a rich history as one of the foundations of information security. This course serves as the introduction to the working primitives, development and various techniques in this field. It emphasizes reasoning about the constraint and construction of cryptographic protocols that use shared secret key or public key. Students will also be exposed to some current open problems.	3.00	30	TTh 10:30-11:45AM
EN.650.460	01	E		Software Vulnerability Analysis <i>Checkoway, Stephen F</i> Prereq: Experience in C++ Programming This course will examine vulnerabilities in C source, stack overflows, writing shell code, etc. Also, vulnerabilities in web applications: SQL Injection, cookies, as well as vulnerabilities in C binary fuzzing, and exploit development without source among other topics.	3.00	30	TTh 1:30-2:45PM

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Institute for NanoBio Technology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.670.495	01	EN		Animation in Nanotechnology & Medicine <i>Searson, Peter C</i>	3.00	10	TBA

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Materials Science & Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.171.321	01	EN		Introduction to Space Science and Technology <i>Moos, Henry Warren</i> Topics include space astronomy, remote observing of the earth, space physics, planetary exploration, human space flight, space environment, orbits, propulsion, spacecraft design, attitude control and communication. Crosslisted by Departments of Earth and Planetary Sciences, Materials Science and Engineering and Mechanical Engineering. Prerequisites: Physics 171.101-102 or similar; Calculus 110.108-109. 3 credits.	3.00	32	TTh 12:00-1:15PM
EN.510.101	01	N		Introduction to Materials Chemistry <i>Mcguiggan, Patricia</i> Basic principles of chemistry and how they apply to the behavior of materials in the solid state. The relationship between electronic structure, chemical bonding, and crystal structure is developed. Attention is given to characterization of atomic and molecular arrangements in crystalline and amorphous solids: metals, ceramics, semiconductors, and polymers (including proteins). Examples are drawn from industrial practice (including the environmental impact of chemical processes), from energy generation and storage (such as batteries and fuel cells), and from emerging technologies (such as biomaterials).	3.00	75	MWF 9:00-9:50AM
EN.510.103	01	EN		Foundations of Nanotechnology <i>Wilson, Orla</i> This course will be a survey of the rapidly developing field of nanotechnology from an interdisciplinary point of view. Topics covered will include a general introduction to the nanoworld, fabrication, characterization and applications of hard and soft nanomaterials, as well as examining nanotechnology in terms of its societal, ethical, economic and environmental impact.	2.00	30	MWF 11:00-11:50AM
EN.510.109	01	EN		Materials Science & Engineering for the 21st Century <i>Wilson, Orla</i> Through this course, students are introduced to the basic tenants of the field of materials science and engineering and important aspects of career development. Discussions will cover the range of career options in the field, the opportunities to engage with cutting edge research and technology at JHU, the skills that practitioners require and the ethical conundrums that engineering professionals navigate. Prerequisites: only available to Materials Science & Engineering freshman and engineering undecided freshman.	1.00	30	M 12:00-12:50PM
EN.510.311	01	EN		Structure of Materials <i>Hufnagel, Todd Clayton</i>	3.00	40	MWF 10:00-10:50AM

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				Prerequisites: Calculus I and II (110.106-107 or 110.108-109); Introduction to Materials Chemistry (510.101) or Introductory Chemistry I and II (030.101-102); General Physics I and II (171.101-102 or 171.103-104); Computation and Programming for Materials Scientists and Engineers (510.202) or another programming course; or permission of instructor. First of the Introduction to Materials Science series, this course seeks to develop an understanding of the structure of materials starting at the atomic scale and building up to macroscopic structures. Topics include bonding, crystal structures, crystalline defects, symmetry and crystallography, microstructure, liquids and amorphous solids, diffraction, molecular solids and polymers, liquid crystals, amphiphilic materials, and colloids.			
EN.510.312	01	EN		Thermodynamics/Materials <i>Herrera-Alonso, Margarita</i>	3.00	45	MWF 11:00-11:50AM
				Prerequisites: Calculus I and II (110.106-107 or 110.108-109); Introduction to Materials Chemistry (510.101) or Introductory Chemistry I and II (030.101-102); General Physics I and II (171.101-102 or 171.103-104); 510.202 Computation and Programming for Materials Scientists and Engineers (or another programming course); or permission of instructor. Second of the Introduction to Materials Science series, this course examines the principles of thermodynamics as they apply to materials. Topics include fundamental principles of thermodynamics, equilibrium in homogeneous and heterogeneous systems, thermodynamics of multicomponent systems, phase diagrams, thermodynamics of defects, and elementary statistical thermodynamics.			
EN.510.316	01	EN		Biomaterials I <i>Mao, Hai-Quan</i>	3.00	93	MWF 9:00-9:50AM
				Prerequisites: Introductory Organic Chemistry I (030.205) and Computation and Programming for Materials Scientists and Engineers (510.202) or another programming course, or permission of instructor. Sixth of the Introduction to Materials Science series, this course offers an overview of principles and properties of biomedical materials. Topics include properties of materials used in medicine, synthesis and properties of polymeric materials, polymeric biomaterials, natural and recombinant biomaterials, biodegradable materials, hydrogels, stimuli-sensitive materials, and characterizations of biomaterials.			
EN.510.403	01	N		Materials Characterization <i>Mcquiggan, Patricia</i>	3.00	25	TTh 1:30-2:45PM

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				This course will describe a variety of techniques used to characterize the structure and composition of engineering materials, including metals, ceramics, polymers, composites and semiconductors. The emphasis will be on microstructural characterization techniques, including optical and electron microscopy, X-ray diffraction, and acoustic microscopy. Surface analytical techniques, including Auger electron spectroscopy, secondary ion mass spectroscopy, X-ray photoelectron spectroscopy, and Rutherford backscattering spectroscopy. Real-world examples of materials characterization will be presented throughout the course, including characterization of thin films, surfaces, interfaces, and single crystals.			
EN.510.405	01	EN		Materials Science of Energy Technologies <i>Erlebacher, Jonah D</i>	3.00	40	TTh 10:30-11:45AM
				This course examines the science and engineering of contemporary and cutting-edge energy technologies. Materials Science and Mechanical Engineering fundamentals in this area will be complemented by case studies that include fuel cells, solar cells, lighting, thermoelectrics, wind turbines, engines, nuclear power, biofuels, and catalysis. Students will consider various alternative energy systems, and also to research and engineering of traditional energy technologies aimed at increased efficiency, conservation, and sustainability. Prerequisite: undergraduate course in thermodynamics.			
EN.510.418	01	EN		Electronic and Photonic Processes and Devices <i>Poehler, Theodore O</i>	3.00	25	TTh 9:00-10:15AM
				This course is intended for advanced undergraduates and graduate students and will cover the fundamentals and properties of electronic and optical materials and devices. Subject matter will include a detailed and comprehensive discussion of the physical processes underlying modern electronic and optical devices. Detailed descriptions of modern semiconductor devices such as lasers and detectors used in optical communications and information storage and processing will be presented. Also listed as 510.618/418.			
EN.510.419	01	EN		Physical Metallurgy <i>Ma, En</i>	3.00	25	TTh 3:00-4:15PM
				This course examines the relationship between microstructure and mechanical properties of metals and alloys. Starting from fundamentals (phase diagrams and phase transformation kinetics), we will explore how the structure of metals and alloys can be manipulated by thermomechanical processing to achieve desired properties. Detailed examples will be drawn from several alloy systems, including steels, aluminum, and titanium. A theme of the course will be the impact of materials processing and materials selection on the environment, including considerations of lightweight materials and processing techniques for minimizing energy consumption.			

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EN.510.426	01	EN		Biomolecular Materials I - Soluble Proteins and Amphiphiles <i>Hristova, Kalina A</i> This course will examine the fundamental structure, interactions, and function relationship for biological macromolecules. The course will emphasize experimental methods and experimental design, and the physics behind human disease. Topics will include micellization, protein folding and misfolding, and macromolecular interactions. Prerequisite: 580.221 (Molecules and Cells), also listed as 510.621.	3.00	25	MF 1:30-2:45PM
EN.510.428	01	EN	W	Material Science Lab I <i>Wilson, Orla</i> This course focuses on characterizing the microstructure and mechanical properties of structural materials that are commonly used in modern technology. A group of Al alloys, Ti alloys, carbon and alloy steels, and composite materials that are found, for example, in actual bicycles will be selected for examination. Their microstructures will be studied using optical metallography, scanning electron microscopy, X-ray diffraction, and transmission electron microscopy. The mechanical properties of these same materials will be characterized using tension, compression, impact, and hardness tests. The critical ability to vary microstructure and therefore properties through mechanical and heat treatments will also be demonstrated and investigated in the above materials.	3.00	15	Th 12:00-1:15PM; Th 1:30-3:50PM
EN.510.433	01	E	W	Senior Design Research <i>Wilson, Orla</i> This course is the first half of a two-semester sequence required for seniors majoring or double majoring in materials science and engineering. It is intended to provide a broad exposure to many aspects of planning and conducting independent research. During this semester, students join ongoing graduate research projects for a typical 10-12 hours per week of hands-on research. Classroom activities include discussions, followed by writing of research pre-proposals (white papers), proposals, status reports and lecture critiques of the weekly departmental research seminar. Prerequisites: 510.311-312, 510.428-429.	3.00	25	MW 3:00-4:15PM
EN.510.437	01	EN		Biosensor Materials and Mechanisms <i>Katz, Howard E</i>	3.00	25	TTh 10:30-11:45AM

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Recent advances in biosensor technology are poised to revolutionize health care, enabling faster and more personalized diagnoses and recommendations. Biosensors are also increasingly important to public health, security, industry, and environmental science. This course will cover the materials, processes, and signaling mechanisms in use and anticipated for future developments in biosensors. Techniques such as electrochemistry, fluorescence, plasmonics, and enzymatic amplification will be discussed, and materials including nanowires, nanoparticles, organic semiconductors, and templated materials will be covered. Detection of nucleic acid sequences, proteins, carbohydrates, pharmaceuticals, and microorganisms will be emphasized. Same course as 510.637

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Mechanical Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.171.321	01	EN		Introduction to Space Science and Technology <i>Moos, Henry Warren</i> Topics include space astronomy, remote observing of the earth, space physics, planetary exploration, human space flight, space environment, orbits, propulsion, spacecraft design, attitude control and communication. Crosslisted by Departments of Earth and Planetary Sciences, Materials Science and Engineering and Mechanical Engineering. Prerequisites: Physics 171.101-102 or similar; Calculus 110.108-109. 3 credits.	3.00	32	TTh 12:00-1:15PM
EN.530.101	01	E		Freshman Experiences in Mechanical Engineering <i>Marra, Steven P</i> Mechanical Engineering, Engineering Mechanics, Undecided Engineering Majors, or with permission of instructor. An overview of the field of mechanical engineering along with topics that will be useful throughout the mechanical engineering program. This is the first half of a one-year course that includes applications of mechanics, elementary numerical analysis, programming in MatLab, use of computer data acquisition, analysis, design, and visualization; technical drawing, the design process and creativity, report preparation, teamwork, and engineering ethics.	2.00	75	MW 1:30-2:20PM
EN.530.103	01	EN		Introduction to Mechanics I <i>Thomas, John A</i> Restricted to Mechanical Engineering, Engineering Mechanics, Civil Engineering, Undecided Engineering Majors, or permission of instructor. This is the first half of a one-year course offering in-depth study of elements of mechanics, including linear statics and dynamics, rotational statics and dynamics, thermodynamics, fluids, continuum mechanics, transport, oscillations, and waves. This is an alternate to 171.101, designed specifically for Mechanical Engineering and Engineering Mechanics students taking 530.101 concurrently.	2.00	60	WF 3:00-3:50PM
EN.530.105	01	E		Mechanical Engineering Freshman Lab I <i>Marra, Steven P</i> Hands-on laboratory complementing 530.101 and 530.103, including experiments, mechanical dissections, and design experiences distributed throughout the year. Experiments are designed to give student background in experimental techniques as well as to reinforce physical principles. Mechanical dissections connect physical principles to practical engineering applications. Design projects allow students to synthesize working systems by combining mechanics knowledge and practical engineering skills.	1.00	18	Th 9:00-11:50AM
EN.530.105	02	E		Mechanical Engineering Freshman Lab I	1.00	18	Th 12:00-2:50PM
EN.530.105	03	E		Mechanical Engineering Freshman Lab I	1.00	18	Th 3:00-5:50PM
EN.530.105	04	E		Mechanical Engineering Freshman Lab I	1.00	18	F 12:00-2:50PM
EN.530.201	01	E		Statics & Mechanics of Materials	4.00	17	TTh 10:30-11:45AM; M 4:00-5:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Igusa, Takeru</i> Prereq: 171.101 or (530.103 and 530.104) or Permission Only Equilibrium of rigid bodies, free-body diagrams, design of trusses. One-dimensional stress and strain, Hooke's law. Properties of areas. Stress, strain, and deflection of components subjected to uniaxial tension, simple torsion, and bending. Co-listed with 560.201			
EN.530.201	02	E		Statics & Mechanics of Materials	4.00	16	TTh 10:30-11:45AM; M 6:00-7:50PM
EN.530.201	03	E		Statics & Mechanics of Materials	4.00	16	TTh 10:30-11:45AM; T 2:00-3:50PM
EN.530.201	04	E		Statics & Mechanics of Materials	4.00	18	TTh 10:30-11:45AM; T 4:00-5:50PM
EN.530.201	05	E		Statics & Mechanics of Materials	4.00	20	TTh 10:30-11:45AM; W 4:00-5:50PM
EN.530.201	06	E		Statics & Mechanics of Materials	4.00	16	TTh 10:30-11:45AM; Th 4:00-5:50PM
EN.530.231	01	E		Mech Eng Thermodynamics	3.00	70	MWF 1:30-2:20PM
				<i>Katz, Joseph</i> Prereq: 110.109; Coreq: 171.102 and 530.232 - Properties of pure substances, phase equilibrium, equations of state. First law, control volumes, conservation of energy. Second law, entropy, efficiency, reversibility. Carnot and Rankine cycles. Internal combustion engines, gas turbines. Ideal gas mixtures, air-vapor mixtures. Introduction to combustion. Problem Solving Session Th 4pm-5:30pm.			
EN.530.232	01	EN		MechE Thermodynamics Laboratory	1.00	70	T 3:00-3:50PM; TBA
				<i>Marra, Steven P</i> Co-requisite: 530.231 This course is the complementary laboratory course and a required co-requisite for 530.231 MechE Thermodynamics.			
EN.530.327	01	E		Introduction to Fluid Mechanics	3.00	65	TTh 10:30-11:45AM
				<i>Gayme, Dennice F</i> Prereq: 530/560.202 and either 110.302 or 110.306 or 550.291; Co-requisite: 530.329 Physical properties of fluids. Fluid statics. Control volumes and surfaces, kinematics of fluids, conservation of mass. Linear momentum in integral form. Bernoulli's equation and applications. Dimensional analysis. The Navier-Stokes equations. Laminar and turbulent viscous flows. External flows, lift and drag.			
EN.530.329	01	E		Intro to Fluid Mechanics Laboratory	1.00	65	W 10:00-10:50AM; TBA
				<i>Marra, Steven P</i> Co-requisite: 530.327 This course is the complementary laboratory course and a required co-requisite for 530.327 Intro to Fluid Mechanics.			
EN.530.352	01	E		Materials Selection	4.00	65	MWF 11:00-11:50AM
				<i>Marra, Steven P</i> Prereq: 530.215 or Perm. Req'd. An introduction to the properties and applications of a wide variety of materials: metals, polymers, ceramics, and composites. Considerations include availability and cost, formability, rigidity, strength, and toughness. This course is designed to facilitate sensible materials choices so as to avoid catastrophic failures leading to the loss of life and property.			
EN.530.403	01	E		Engineering Design Project	4.00	56	TBA
				<i>Scott, Nathan William</i>			

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				Prereq: ME Majors: 530.215, 530.327 EM & BME Majors: 530.215 or 530.405, and 530.327			
				This senior year "capstone design" course is intended to give some practice and experience in the art of engineering design. Students working in teams of two to four will select a small-scale, industry-suggested design problem in the area of small production equipment, light machinery products, or manufacturing systems and methods. A solution to the problem is devised and constructed by the student group within limited time and cost boundaries. Preliminary oral reports of the proposed solution are presented at the end of the first semester. A final device, product, system, or method is presented orally and in writing at the end of the second semester. Facilities of the Engineering Design Laboratory (including machine shop time) and a specified amount of money are allocated to each student design team for purchases of parts, supplies, and machine shop time where needed.			
EN.530.405	01	EN		Mechanics of Solids and Structures <i>El-Awady, Jaafar</i>	3.00	25	MW 3:00-4:15PM
				This course provides an introduction to the mathematical and theoretical foundations of the mechanics of solids and structures. We will begin with the mathematical preliminaries used in continuum mechanics: vector and tensor calculus, then introduce kinematics and strain measures, descriptions of stress in a body, frame indifference, conservation laws: mass, momentum, energy balance, and entropy. These concepts will be applied to develop the constitutive equations for solids and fluids, methods for solving boundary values problems that occur in engineering structures, energy methods and foundations of the finite element method.			
EN.530.414	01	E		Computer-Aided Design <i>Stoianovici, Dan</i>	3.00	21	Th 1:30-4:20PM
				The course outlines a modern design platform for 3D modeling, analysis, simulation, and manufacturing of mechanical systems using the "Pro/E" package by PTC. The package includes the following components: • Pro/ENGINEER: is the kernel of the design process, spanning the entire product development, from creative concept through detailed product definition to serviceability. • Pro/MECHANICA: is the main analysis and simulation component for kinematic, dynamic, structural, thermal and durability performance. • Pro/NC: is a numeric-control manufacturing package. This component provides NC programming capabilities and tool libraries. It creates programs for a large variety of CNC machine tools.			
EN.530.414	02	E		Computer-Aided Design	3.00	21	Th 4:30-7:20PM
EN.530.414	03	E		Computer-Aided Design	3.00	21	F 9:30AM-12:20PM
EN.530.414	04	E		Computer-Aided Design	3.00	21	F 1:00-3:50PM
EN.530.416	01	E		Advanced Mechanical Design	3.00	50	TTh 10:30-11:45AM

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				<i>Dehghani, Mohammad M</i> Prereq: 530.215 A continuation of 530.215 expanding on topics such as fatigue, fracture, and various mechanical components and including linkage systems and cams. Student teams will be assigned different experimental or computational projects.			
EN.530.418	01	E		Aerospace Structures & Materials <i>Dragone, Thomas</i> Prereq: 530.352 or permission of instructor. An introduction to the design of aircraft and spacecraft structures and components. This course will build on skills learned in 530.215 Mechanics-Based Design and 530.352 Materials Selection.	3.00	30	TTh 9:00-10:15AM
EN.530.420	01	E		Robot Sensors/Actuators <i>Cowan, Noah J</i> Introduction to modeling and use of actuators and sensors in mechatronic design. Topics include electric motors, solenoids, micro-actuators, position sensors, and proximity sensors.	4.00	12	TTh 12:00-1:15PM; TBA
EN.530.420	02	E		Robot Sensors/Actuators	4.00	12	TTh 12:00-1:15PM; TBA
EN.530.420	03	E		Robot Sensors/Actuators	4.00	12	TBA; TBA
EN.530.420	04	E		Robot Sensors/Actuators	4.00	12	TBA; TBA
EN.530.420	05	E		Robot Sensors/Actuators	4.00	6	TTh 12:00-1:15PM; TBA
EN.530.420	06	E		Robot Sensors/Actuators	4.00	6	TTh 12:00-1:15PM; TBA
EN.530.420	07	E		Robot Sensors/Actuators	4.00	6	TBA; TBA
EN.530.420	08	E		Robot Sensors/Actuators	4.00	6	TBA; TBA
EN.530.425	01	E		Mechanics of Flight <i>Phillips, Kerri Beth</i> Elements of flight dynamics: aerodynamics forces, gliding, cruising, turning, ascending, descending, stability, etc. Review of the pertinent fluid mechanic principles. Application to two-dimensional airfoils and theory of lift. Three-dimensional airfoils. Boundary layers. Effects of compressibility. Subsonic and supersonic flight.	3.00	30	TTh 4:30-5:45PM
EN.530.445	01	E		Introduction to Biomechanics <i>Belkoff, Stephen M</i> An introduction to the mechanics of biological materials and systems. Both soft tissue such as muscle and hard tissue such as bone will be studied as will the way they interact in physiological functions. Special emphasis will be given to orthopedic biomechanics.	3.00	50	MWF 9:00-9:50AM
EN.530.451	01			Cell & Tissue Eng Lab <i>Wang, Jeff T</i>	2.00	4	TF 12:00-1:50PM

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				Senior and Graduate students only; others Perm. Req'd. Lab Fee: \$100 Cell and tissue engineering is a field that relies heavily on experimental techniques. This laboratory course will consist of three six experiments that will provide students with valuable hands-on experience in cell and tissue engineering. Students will learn basic cell culture procedures and specialized techniques related to faculty expertise in cell engineering, microfluidics, gene therapy, microfabrication and cell encapsulation. Experiments include the basics of cell culture techniques, gene transfection and metabolic engineering, basics of cell-substrate interactions I, cell-substrate interactions II, and cell encapsulation and gel contraction. Co-listed with 580.451			
EN.530.451	02			Cell & Tissue Eng Lab	2.00	4	TF 2:00-3:50PM
EN.530.454	01	E		Manufacturing Engineering <i>Ronzhes, Yury</i> Open only to seniors in Mechanical Engineering and Engineering Mechanics and other majors at all levels. An introduction to the various manufacturing processes used to produce metal and nonmetal components. Topics include casting, forming and shaping, and the various processes for material removal including computer-controlled machining. Simple joining processes and surface preparation are discussed. Economic and production aspects are considered throughout.	3.00	60	MWF 10:00-10:50AM
EN.530.495	01	EN		Microfabrication Lab <i>Andreou, Andreas</i> Seniors only or Perm. Req'd This laboratory course is an introduction to the principles of microfabrication for microelectronics, sensors, MEMS, and other synthetic microsystems that have applications in medicine and biology. Course comprised of laboratory work and accompanying lectures that cover silicon oxidation, aluminum evaporation, photoresist deposition, photolithography, plating, etching, packaging, design and analysis CAD tools, and foundry services. Co-listed with 520.495 & 580.495	4.00	4	Th 1:00-4:50PM; W 1:30-2:20PM
EN.530.495	02	EN		Microfabrication Lab <i>Wang, Jeff T</i>	4.00	4	Th 5:00-8:50PM; W 1:30-2:20PM
EN.530.495	03	EN		Microfabrication Lab	4.00	4	F 8:00-11:50AM; W 1:30-2:20PM
EN.530.495	04	EN		Microfabrication Lab <i>Andreou, Andreas</i>	4.00	4	F 1:00-4:50PM; W 1:30-2:20PM
EN.530.495	05	EN		Microfabrication Lab	4.00	4	Th 8:00-11:50AM; W 1:30-2:20PM
EN.560.201	01	E		Statics & Mechanics of Materials <i>Igusa, Takeru</i>	4.00	7	TTh 10:30-11:45AM; M 4:00-5:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: 171.101 or (530.103 and 530.104) or Permission Only. Basic principles of classical mechanics applied to the equilibrium of particles and rigid bodies at rest, under the influence of various force systems. In addition, the following topics are studied: free body concept, analysis of simple structures, friction, centroids and centers of gravity, and moments of inertia. Includes laboratory experience. Co-listed with 530.201.			
EN.560.201	02	E		Statics & Mechanics of Materials	4.00	7	TTh 10:30-11:45AM; M 6:00-7:50PM
EN.560.201	03	E		Statics & Mechanics of Materials	4.00	7	TTh 10:30-11:45AM; T 2:00-3:40PM
EN.560.201	04	E		Statics & Mechanics of Materials	4.00	7	TTh 10:30-11:45AM; T 4:00-5:50PM
EN.560.201	05	E		Statics & Mechanics of Materials	4.00	7	TTh 10:30-11:45AM; W 4:00-5:50PM
EN.560.201	06	E		Statics & Mechanics of Materials	4.00	7	TTh 10:30-11:45AM; Th 4:00-5:50PM
EN.580.451	01	EN		Cell & Tissue Eng Lab <i>Haase, Eileen B</i> Senior and Graduate students only; others Perm. Req'd. Lab Fee: \$100 Cell and tissue engineering is a field that relies heavily on experimental techniques. This laboratory course will consist of three six experiments that will provide students with valuable hands-on experience in cell and tissue engineering. Students will learn basic cell culture procedures and specialized techniques related to faculty expertise in cell engineering, microfluidics, gene therapy, microfabrication and cell encapsulation. Experiments include the basics of cell culture techniques, gene transfection and metabolic engineering, basics of cell-substrate interactions I, cell-substrate interactions II, and cell encapsulation and gel contraction. Co-listed with 530.451	2.00	8	TF 12:00-1:50PM
EN.580.451	02	EN		Cell & Tissue Eng Lab	2.00	8	TF 2:00-3:50PM
EN.660.461	01	E		Engineering Business and Management <i>Agronin, Michael</i> An introduction to the business and management aspects of the engineering profession, project management, prioritization of resource allocation, intellectual property protection, management of technical projects, and product/production management. Cross-listed with Mechanical Engineering and preference will be given to Mechanical Engineering students. Recommended prerequisite: 660.105 Introduction to Business. No audits.	3.00	25	M 6:15-9:00PM
EN.660.461	02	E		Engineering Business and Management <i>Izenberg, Illysa B</i>	3.00	20	TTh 9:00-10:15AM
EN.660.461	03	E		Engineering Business and Management	3.00	20	TTh 12:00-1:15PM

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Professional Communication

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.661.110	01		W	Professional Communication for Science, Business & Industry <i>Staff</i> This course teaches students to communicate effectively with a wide variety of specialized and non-specialized audiences. Projects include production of resumes, cover letters, proposals, instructions, reports, and other relevant documents. Class emphasizes writing clearly and persuasively, creating appropriate visuals, developing oral presentation skills, working in collaborative groups, giving and receiving feedback, and simulating the real world environment in which most communication occurs. No audits.	3.00	20	TTh 9:00-10:15AM
EN.661.110	02		W	Professional Communication for Science, Business & Industry	3.00	20	TTh 10:30-11:45AM
EN.661.110	03		W	Professional Communication for Science, Business & Industry	3.00	20	TTh 10:30-11:45AM
EN.661.110	04		W	Professional Communication for Science, Business & Industry	3.00	20	TTh 12:00-1:15PM
EN.661.110	05		W	Professional Communication for Science, Business & Industry	3.00	20	TTh 1:30-2:45PM
EN.661.110	06		W	Professional Communication for Science, Business & Industry	3.00	20	MW 12:00-1:15PM
EN.661.110	07		W	Professional Communication for Science, Business & Industry	3.00	20	M 3:00-5:45PM
EN.661.110	08		W	Professional Communication for Science, Business & Industry	3.00	20	W 3:00-5:45PM
EN.661.111	01		W	Professional Communication for ESL Students <i>Davis, Laura</i> This course teaches ESL students to communicate effectively with a wide variety of specialized and non-specialized audiences and will provide ESL-specific help with grammar, pronunciation, and idiomatic expression in these different contexts. Projects include production of resumes, cover letters, proposals, instructions, reports, and other relevant documents. Class emphasizes writing clearly and persuasively, creating appropriate visuals, developing oral presentation skills, working in collaborative groups, giving and receiving feedback, and simulating the real world environment in which most communication occurs. Note: not open to students who have taken 661.110 as Technical Communication or Professional Communication for Science, Business, and Industry or 661.120 Business Communication. Co-listed with 661.611. No audits.	3.00	12	TTh 4:30-5:45PM
EN.661.150	01		W	Oral Presentations <i>Dungey, Kevin R</i>	3.00	13	M 3:00-5:45PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course is designed to help students push through any anxieties about public speaking by immersing them in a practice-intensive environment. They learn how to speak with confidence in a variety of formats and venues - Including extemporaneous speaking, job interviewing, leading a discussion, presenting a technical speech, and other relevant scenarios. Students learn how to develop effective slides that capture the main point with ease and clarity, hone their message, improve their delivery skills, and write thought-provoking, well-organized speeches that hold an audience's attention. No audits.			
EN.661.150	02		W	Oral Presentations	3.00	13	M 6:15-9:00PM
EN.661.150	03		W	Oral Presentations <i>Reiser, Julie</i>	3.00	13	T 1:30-4:15PM
EN.661.150	04		W	Oral Presentations <i>Heiserman, Jason</i>	3.00	13	T 4:30-7:15PM
EN.661.150	05		W	Oral Presentations <i>Sheff, Pamela</i>	3.00	13	W 1:30-4:15PM
EN.661.150	06		W	Oral Presentations <i>O'Donnell, Charlotte Alyssa</i>	3.00	13	W 5:00-7:45PM
EN.661.150	07		W	Oral Presentations <i>Kulanko, Andrew</i>	3.00	13	Th 1:30-4:15PM
EN.661.150	08		W	Oral Presentations	3.00	13	Th 5:00-7:45PM
EN.661.151	01		W	Oral Presentations for ESL <i>Davis, Laura</i>	3.00	13	W 6:00-8:45PM
				This course is designed to help students push through any anxieties about public speaking by immersing them in a practice-intensive environment. They learn how to speak with confidence in a variety of formats and venues - Including extemporaneous speaking, job interviewing, leading a discussion, presenting a technical speech, and other relevant scenarios. Students learn how to develop effective slides that capture the main point with ease and clarity, hone their message, improve their delivery skills, and write thought-provoking, well-organized speeches that hold an audience's attention. Special attention will be placed on diction, pronunciation, tone, pace and emphasis of language. Additional attention also will be given to syntax as well as non-verbal communication patterns. Co-listed with 661.651. No audits.			
EN.661.170	01			Visual Rhetoric <i>O'Donnell, Charlotte Alyssa</i>	3.00	15	T 1:30-4:15PM
				A course that aims to help students design clearer, more visually engaging graphics for a wide variety of business and technical documents. Students will learn to manage essential principles of graphic design through a variety of graphic programs (Adobe Creative Suite) and MS Office software. Topics will include logos, letterhead, event posters, brochures, data graphics and some basic web design. No audits.			
EN.661.315	01	S	W	The Culture of the Engineering Profession <i>Sheff, Pamela</i>	3.00	24	TTh 10:30-11:45AM

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				For Engineering sophomores, juniors and seniors or by permission of instructor. This course focuses on building understanding of the culture of engineering while preparing students to communicate effectively with the various audiences with whom engineers interact. Working from a base of contemporary science writing (monographs, non-fiction, popular literature and fiction), students will engage in discussion, argument, case study and project work to investigate: the engineering culture and challenges to that culture, impacts of engineering solutions on society, ethical guidelines for the profession, and the ways engineering information is conveyed to the range of audiences for whom the information is critical. Additionally, students will master many of the techniques critical to successful communication within the engineering culture through a series of short papers and presentations associated with analysis of the writings and cases. No audits.			
EN.661.351	01		W	Corporate Communications & P.R. <i>Sheff, Pamela</i> This course focuses on the ways that organizations – both for-profit and non-profit - manage their communications to deliver strategic, coherent and compelling messages to their varied stakeholders. Using case studies and team-based, real world projects, we will explore topics including public and media relations, corporate image, branding, advertising, internal and external communications, crisis management, investor relations, ethics and social responsibility. In the process, we will consider issues ranging from organizational culture and leadership styles to defining strategy, managing conflict, defending positions and disagreeing agreeably. Prerequisite: one of the following: 661.110 Professional Communication for Science, Business & Industry, 060.113 or 060.114 Expository Writing, 060.215 Advanced Expository Writing, or 220.105 Introduction to Fiction & Poetry. Recommended prerequisites: 660.250 Principles of Marketing, 660.105 Introduction to Business, and 661.150 Oral Presentations. No audits.	3.00	30	TTh 1:30-2:45PM
EN.661.357	01		W	Copywriting & Creative Strategy <i>Quesenberry, Keith</i> Uncover the process of creative thinking for innovation and conceiving "big ideas" in marketing. Students will be exposed to creative theory and practice as they select a consumer product and determine strategic market positioning, target demographics, media vehicles and creative guidelines. Then students will learn the craft of advertising copywriting for print, broadcast and digital media as they develop finished creative executions for the chosen organization that all build to a complete integrated marketing campaign. Prerequisite: 660.250 Principles of Marketing. Co-listed with 661.357. No audits.	3.00	8	TTh 1:30-2:45PM
EN.661.410	01		W	Research Writing for ESL	3.00	5	M 6:00-8:45PM

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				<p><i>Link-Farajali, Denise</i></p> <p>This course is designed to help ESL writers succeed in writing, editing, and completing a large research project specific to their discipline. This could be a research report, journal article, literature review, dissertation chapter, grant proposal, or other relevant document. The course provides intensive help with grammar, idiomatic phrasing, and overall clarity for writers whose native language is not English. The course includes both individual consultation and group workshops. Undergraduates must be conducting research with a faculty member or must obtain special permission of instructor to register for the course. S/U grading only (students may elect to take this course for a traditional letter grade if their departments require them to do so; students must inform the instructor by the second week of class). Co-listed with 661.610. No audits.</p>			
EN.661.456	01		W	<p>Marketing Communication Law & Ethics</p> <p><i>Quesenberry, Keith</i></p> <p>This course focuses on the legal and ethical constraints of advertising and promotion marketing practice. Federal laws, media standards and professional ethics establish what can or cannot be said or done in marketing. Beyond that corporate and personal social responsibility must also be considered. Topics such as deception, copyright, publicity, comparative advertising and social media standards will be covered. Students will apply concepts to current practical examples through a course blog and delve more deeply into subjects through a series of writing assignments. Recommended prerequisite: 660.250 Principles of Marketing and one writing course in any discipline (professional communication, expository writing or writing seminars). Co-listed with 660.456. No audits.</p>	3.00	8	MW 12:00-1:15PM