

THE JOHNS HOPKINS UNIVERSITY

2015-2016

SPRING TERM  
UNDERGRADUATE

**SCHEDULE OF COURSES**

as of October 26, 2015

**ARTS AND SCIENCES**

AND

**ENGINEERING**

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Spring 2016

## Anthropology

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.070.273	01	HS	W	<b>Ethnographies</b> <i>Khan, Naveeda</i> Both a mode of research and a genre of writing, ethnography is a practice essential to anthropology. This course will examine what is at stake in this practice of taking readers and interlocutors from one world into another. We focus this spring on the theme of "Creation and Destruction," reading a handful of contemporary ethnographic texts and trying out exercises in ethnographic writing. Required for anthropology majors.	3.00	25	F 1:30-3:50PM					
AS.070.294	01	HS		<b>Political Anthropology of Africa</b> <i>Obarrio, Juan M</i> The course will explore classical and contemporary ethnographies of the political in Africa, examining how their authors address issues of power, hierarchy and symbol. We will study various articulations of state, ethnicity and community that are analyzed by observing relations between power and resistance or between law, economy and violence through war, custom and ritual. The seminar will also address the way in which Africa has been constituted as a key source of the sub-field of political anthropology through colonial trajectories, postcolonial detours and the political imagination of the past and the future.	3.00	30	M 4:30-6:50PM					
AS.070.348	01	HS		<b>Anthropology of Mental Illness</b> <i>Han, Clara</i> Mental illness and madness have been powerful lenses for anthropologists to study the individual's relationship to the social and how societies may secure the boundaries of the normal and the abnormal. We will examine genealogies of anthropological thought on mental illness and study the cross-pollination of anthropology and psychiatry.	3.00	55	MW 1:30-2:45PM					
AS.070.419	01	HS	W	<b>Logic of Anthropological Inquiry</b> <i>Pandian, Anand</i>	3.00	30	MW 4:30-5:45PM					



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Course draws on both classic readings in material culture and emerging theories of the digital to consider how the internet has changed objects and the institutions that collect, preserve, display and interpret them. Students will contribute to an established virtual museum and create their own.

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AS.371.131	01			<b>Studio Drawing I</b> <i>Hankin, Craig</i> 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. Attendance at 1st class is mandatory.	2.00	15	T 1:30-4:50PM					Y
AS.371.133	01			<b>Painting Workshop I</b> <i>Hankin, Craig</i> 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				Prerequisite AS.371.131 or permission of instructor.	Y
AS.371.133	02			<b>Painting Workshop I</b> <i>Gruber, Barbara</i>	2.00	12	Th 1:30-4:50PM					Y
AS.371.140	01	H		<b>Cartooning</b> <i>Chalkley, Thomas</i> Not open to Freshmen. A history-and-practice overview for students of the liberal arts. The conceptual basis and historical development of cartooning is examined in both artistic and social contexts. Class sessions consist of lecture (slides/handouts), exercises, and ongoing assignments. Topics include visual/narrative analysis, symbol & satire, editorial/political cartoons, character development, animation. Basic drawing skills are preferred but not required.	3.00	15	M 1:30-4:20PM			Sophomores Only; Juniors Only; Seniors Only		Y
AS.371.150	01			<b>Life Drawing</b> <i>Hankin, Craig</i>	2.00	15	Th 1:30-4:50PM					Y

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				An intermediate drawing course focusing on all aspects of the human form. Beginning with infrastructure (skeletal and muscular systems), we will work directly from the model using a variety of media and techniques to address problems in figurative art from the Renaissance to the present.								
AS.371.151	01	H		<b>Photoshop/Digital Darkroom</b>	3.00	10	M 10:00AM-12:50PM					Y
				<i>Ehrenfeld, Howard</i> 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. Approval for this course will be considered after enrollment on ISIS.				Will meet in Mattin 204.				

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AS.371.152	01	H		<b>Introduction to Digital Photography</b>  <i>Ehrenfeld, Howard</i> 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. Approval for this course will be considered after enrollment on ISIS.	3.00	10	T 10:00AM-12:50PM	Will meet in Mattin 204.				Y
AS.371.162	01	H		<b>Black &amp; White: Digital Darkroom</b>  <i>Berger, Phyllis A</i> 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. Attendance at 1st class is mandatory. No need to email for approval.	3.00	10	W 10:00AM-12:50PM					Y
AS.371.164	01			<b>Introduction to Printmaking</b>  <i>Premo, Larcia C.</i>	2.00	12	M 1:30-4:20PM					Y





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AS.371.174	01			<b>Introduction to Digital Art Production</b>  <i>Anchor, Kristen</i> An introduction to digital media tools with a focus on creating art and communicating ideas. Develop your skills in audio/visual communication including graphics, web design, sound and video production. Class meets at the Digital Media Center and includes an introduction to DMC's facilities and broad range of digital production gear, plus studio visits with digital artists working in a variety of media.	2.00	10	W 10:00AM-12:50PM					
AS.371.302	01	H		<b>Photographic Portfolio</b>  <i>Berger, Phyllis A</i> In this upper level course, experienced students will work on a semester-long project that reflects their artistic sensibility, interests and passion for photography. They will develop their ideas within a seminar style format that allows for conversation and debate and provides a forum for the evolution of content within their work. Through a combination of critique, lecture and lab, students will complete a portfolio of ten printed images that work together in a series. Recommended Course Background: Previous CVA photography course or instructor's permission.	3.00	10	F 10:00AM-12:50PM					Y
AS.371.303	01	H		<b>Documentary Photography</b>  <i>Berger, Phyllis A</i> 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. Attendance at first class is mandatory. No need to email for approval.	3.00	10	W 2:00-4:50PM					Y
AS.371.303	02	H		<b>Documentary Photography</b>	3.00	10	F 2:00-4:50PM					Y

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## Behavioral Biology

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.020.152	01	N		<b>General Biology II</b>  <i>McCarty, Richard E; Pearlman, Rebecca Shari; Roberson, Christov; Shingles, Richard</i> This course builds on the concepts presented and discussed in General Biology I. The primary foci of this course will be on the diversity of life and on the anatomy, physiology, and evolution of plants and animals. There will be a special emphasis on human biology. The workshops that were introduced in AS.020.151 General Biology I will include the use of simulation software, a critique of the primary literature, and an exploration of current trends in medicine. Recommended Course Background: AS.020.151. Section 01: Not open to Freshmen. Section 02: Open to Freshmen only.	3.00	225	MWF 12:00-12:50PM			Sophomores Only; Juniors Only; Seniors Only; Grad Grade System; Post-Bacc Pre-Med Only		
AS.020.152	02	N		<b>General Biology II</b>	3.00	225	TTh 12:00-1:20PM	Section 02: Open to Freshmen only.	Freshmen Only			
AS.200.141	01	NS		<b>Foundations of Brain, Behavior and Cognition</b> <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.200.208	01	NS		<b>Animal Behavior</b> <i>Bohn, Kirsten M</i> Examines basic principles of animal behavior (orientation, migration, communication, reproduction, parent-offspring relations, ontogeny of behavior and social organization). Evolution and adaptive significance of behavior will be emphasized.	3.00	180	TTh 1:30-2:45PM				Prereqs: AS.020.151 AND ( AS.110.106 OR AS.110.108)	
AS.200.328	01	S	W	<b>Theory &amp; Methods in Clinical Psychology</b> <i>Edwin, David H</i>	3.00	25	M 6:00-8:20PM					

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## Behavioral Biology

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				A critical examination of the methods of observation, description, reasoning, inference, measurement and intervention that underlie the clinical practice of psychology and psychiatry. Crosslisted with Behavioral Biology. Open to Senior & Junior Behavioral Biology, Cognitive Science, Neuroscience, Psychology, and Public Health majors only OR with Instructor Approval.					Z Major Behavioral Bio; Z Major Psychology; Z Major Cognitive Science		AS.200.212	
AS.200.370	01	NS		<b>Functional Human Neuroanatomy</b>  <i>Courtney-Faruqee, Susan</i> This course examines the general organizing principles of the anatomy of the human central nervous system and how this anatomical organization relates to function, from the level of neural circuits, to systems, to behavior. Students will learn to identify neuroanatomical structures and pathways in dissections and MRI images through computerized exercises. Readings and lectures will emphasize general structure-function relationships and an understanding of the functional roles of particular structures in sensory, motor, and cognitive systems.	3.00	50	MWF 11:00-11:50AM				AS.080.250 OR AS.080.305	
AS.200.376	01	NS		<b>Psychopharmacology</b>  <i>Adwanikar, Hita M</i> Designed to provide information about how drugs affect the brain and behavior. The course focuses on biological concepts underlying structures and functions of the brain that relate to mental disorders. An introduction to neurobiology and brain function is presented as it applies to the interaction of various classes of drugs with the individual neurotransmitter systems in the brain. A brief historic review is followed by a discussion of clinical relevance. Cross-listed with Behavioral Biology and Neuroscience.	3.00	100	WF 12:00-1:15PM				Prerequisite: AS.200.141 OR (AS.020.312 AND AS.020.306) OR (AS.080.305 AND AS.080.306) or permission required.	
AS.200.386	01	S		<b>Animal Cognition</b>  <i>Holland, Peter C</i>	3.00	30	TTh 9:00-10:15AM					

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				Examine relations between brain, mind, and behavior in nonhuman animals, focusing on topics such as learning, memory, attention, decision-making, navigation, communication, and awareness. We will take a variety of approaches, including behavioral, computational, evolutionary, neurobiological, and psychological perspectives.							Prerequisites: (AS.200.141 OR AS.200.208 OR AS.290.101) OR permission of instructor.	
AS.290.101	01	NS		<b>Human Origins</b> <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.290.420	01	S	W	<b>Human Sexual Orientation</b> <i>Jarema, Ann; Kraft, Chris S</i> 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. 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.	3.00	25	T 3:00-5:30PM		Juniors Only; Seniors Only		Students may enroll in both AS.200.204 and AS.290.420, but cannot do so in the same semester.	
AS.290.490	01	S		<b>Senior Seminar: Behavioral Biology</b> <i>Holland, Peter C</i> 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.	1.00	12	W 9:00-9:50AM					

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AS.020.115	01	N		<b>Bioenergetics</b> <i>Moudrianakis, E N</i> This course is a combination of lectures, student presentations and group discussions that address fundamental principles and also contemporary issues examining the way all forms of Life on Earth are ultimately dependent on sunlight to satisfy their food and energy requirements. We examine the steps from the capture of Physical energy (photons), to the development of electrochemical potentials and finally, to their utilization by cellular organelles towards the synthesis of the chemical "currency" that fuels all biological processes (biosynthesis, cell communication, movements, etc). Special emphasis will be on current developments in biotechnologies that utilize microbial populations to supply us with fuels and also to clean up environmental hazards. The course will also consider ways to extract lessons from Nature's successful designs and harmonious adaptations so that we, in the long run, can utilize them towards a minimization of our negative impact on the environment.  Note: Freshmen and Sophomores only, with good foundations in two of the following: Physics, Chemistry, Biology, Biophysics.	2.00	19	T 1:30-3:00PM		Freshmen Only; Sophomores Only				
AS.020.122	01	N		<b>Cancer and Aging</b> <i>Mefford, Melissa</i> Cancer and aging are intimately intertwined with one another. For instance, older age is the number one risk factor for developing cancer, and cancer is predicted to be the number one killer in the U.S. in the next 15 years, surpassing heart disease. Interestingly, both cancer and aging result from an accumulation of genetic mutations over time with very different outcomes. In cancer, genetic mutations cause unrestricted and aberrant division of cells, while in aging mutations cause cells to cease cell division. This discussion based course will provide an overview of the hallmarks of cancer and aging, including recent research, emerging therapeutics, and bioethical considerations. Freshmen only.	1.00	18	Th 3:00-3:50PM		Freshmen Only				

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AS.020.135	01	N		<b>Phage Hunting</b> <i>Fisher, Emily J; Mefford, Melissa</i> 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. Freshmen only	2.00		TF 2:00-4:30PM		X Rising Freshmen			
AS.020.136	01	N		<b>Phage Hunting II</b> <i>Fisher, Emily J</i> This is an introductory course open to all freshman regardless of intended major. No science background is required. This is the second 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. In the spring semester, students will annotate the genome of a bacteriophage isolated and characterized by a student in AS.020.135, in preparation for submission to a database and eventual publication. The course includes two lab meetings per week. 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. Freshmen only. Enrollment by permission of the instructor only.	2.00	24	MW 1:30-4:00PM	Enrollment by Instructor Permission Only. Freshmen Only (signed add/drop form)	Freshmen Only; In Person Registration Only	Students must have completed Lab Safety training prior to registering for this class.		
AS.020.136	02	N		<b>Phage Hunting II</b> <i>Fisher, Emily J; Schildbach, Joel F</i>	2.00	24	MTh 1:30-4:00PM					

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AS.020.152	01	N		<b>General Biology II</b>  <i>McCarty, Richard E; Pearlman, Rebecca Shari; Roberson, Christov; Shingles, Richard</i> This course builds on the concepts presented and discussed in General Biology I. The primary foci of this course will be on the diversity of life and on the anatomy, physiology, and evolution of plants and animals. There will be a special emphasis on human biology. The workshops that were introduced in AS.020.151 General Biology I will include the use of simulation software, a critique of the primary literature, and an exploration of current trends in medicine. Recommended Course Background: AS.020.151. Section 01: Not open to Freshmen. Section 02: Open to Freshmen only.	3.00	225	MWF 12:00-12:50PM			Sophomores Only; Juniors Only; Seniors Only; Grad Grade System; Post-Bacc Pre-Med Only		
AS.020.152	02	N		<b>General Biology II</b>	3.00	225	TTh 12:00-1:20PM	Section 02: Open to Freshmen only.	Freshmen Only			
AS.020.154	01	N		<b>General Biology Lab II</b> <i>Pearlman, Rebecca Shari</i> This course reinforces the topics covered in AS.020.152. Laboratory exercises explore subjects ranging from evolution to anatomy and physiology. Students participate in a project using molecular biology techniques to determine whether specific foods are made from genetically engineered plants. Cross-listed with Behavioral Biology Students who have credit for AP Biology but take General Biology Lab II will lose all four credits of their overall credit for AP Biology.	1.00	48	M 1:30-4:20PM	First lab meeting 2/1. Registration after 1/29 only by permission of instructor.		Students must have completed Lab Safety training prior to registering for this class.		
AS.020.154	02	N		<b>General Biology Lab II</b>	1.00	72	T 1:30-4:20PM					
AS.020.154	03	N		<b>General Biology Lab II</b>	1.00	72	W 1:30-4:20PM					





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				<p>This course explores the outstanding problem of biology: how knowledge is represented in the brain. Relating insights from cognitive psychology and systems neuroscience with formal theories of learning and memory, topics include (1) anatomical and functional relations of cerebral cortex, basal ganglia, limbic system, thalamus, cerebellum, and spinal cord; (2) cortical anatomy and physiology including laminar/columnar organization, intrinsic cortical circuit, hierarchies of cortical areas; (3) activity-dependent synaptic mechanisms; (4) functional brain imaging; (5) logicist and connectist theories of cognition; and (6) relation of mental representations and natural language.</p>								
AS.020.316	01	N		<b>Cell Biology Lab</b>	2.00	30	M 1:30-4:20PM; W 1:30-2:20PM					
				<p><i>Horner, Robert D</i> This course will reinforce the topics presented in AS.020.306 Cell Biology through laboratory exercises which use visible and fluorescence microscopy to study chromosomes, cell organelles, cell surface receptors, contractile proteins, and microfilaments.</p>								
				<p>Students must have completed Lab Safety training prior to registering for this class.; Prerequisite or Corequisite: AS.020.306. OR (EN.540.307 AND EN.540.202).</p>								
AS.020.316	02	N		<b>Cell Biology Lab</b>	2.00	30	W 1:30-2:20PM; T 1:30-4:20PM					
AS.020.316	03	N		<b>Cell Biology Lab</b>	2.00	30	W 2:30-5:20PM; W 1:30-2:20PM					
AS.020.316	04	N		<b>Cell Biology Lab</b>	2.00	30	W 1:30-2:20PM; Th 1:30-4:20PM					

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AS.020.316	05	N		<b>Cell Biology Lab</b>	2.00	30	M 1:30-4:20PM; W 1:30-2:20PM	Bio and MCB majors only.				
AS.020.316	06	N		<b>Cell Biology Lab</b>	2.00	30	T 1:30-4:20PM; W 1:30-2:20PM					
AS.020.316	07	N		<b>Cell Biology Lab</b>	2.00	30	W 2:30-5:20PM; W 1:30-2:20PM	Bio and MCB majors only..				
AS.020.316	08	N		<b>Cell Biology Lab</b>	2.00	30	Th 1:30-4:20PM; W 1:30-2:20PM	Bio and MCB majors only.				
AS.020.337	01	N		<b>Stem Cells &amp; the Biology of Aging &amp; Disease</b> <i>Zirkin, Barry R</i> This will be a team-taught lecture course that focuses on the properties of stem cells, their possible role in cancer (breast and prostate), stem cell aging, and the potential utilization of stem cells for therapy. Topics will include: mechanisms of stem cell renewal, stem cell potency, the impact of the stem cell niche, stem cells and the hematopoietic system, stem cells and the neural system, stem cells in the male and female gonads, induced pluripotent stem cells and cellular reprogramming, stem cell changes with aging, and ethical and policy issues in stem cell research and use. Most lectures will be research-oriented. Students will be expected to read and critically analyze current literature, with an emphasis on the experimental bases from which our current understandings derive.	2.00	99	W 3:00-4:45PM		Juniors Only; Seniors Only		AS.020.305 (Biochemistry) and AS.020.306 (Cell Biology) or permission of instructor	
AS.020.346	01	N		<b>Immunology</b> <i>Schildbach, Joel F</i>	3.00	20	MW 1:30-2:20PM					

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Biology

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				A course for upper level undergraduates that introduces the molecules, cells, systems and biology of the immune system. A special emphasis will be placed on reading and analyzing primary literature.							Prereq: AS.020.305	
AS.020.347	01	N		<b>AIDS</b>	3.00	75	TTh 1:30-2:45PM					
				AIDS is the world's deadliest infectious disease. This course will cover the biology of human immunodeficiency virus (HIV, the infectious agent that causes AIDS), the effects of HIV on the immune system, the pharmacology of the anti-viral agents that are used to suppress HIV infection, and the ongoing quest for an HIV vaccine. Because HIV drugs cannot cure HIV-infected individuals and no HIV vaccine yet exists, we will also study the long-term consequences of HIV infection including opportunistic infections, comorbid conditions, and the HIV-related cancers Kaposi's Sarcoma and AIDS-Related lymphoma. Recommended Course Background: AS.020.306								
AS.020.351	01	N		<b>Cancer Biology</b> <i>Hoyt, Myles Andrew</i>	3.00	27	TTh 1:30-2:45PM					
				While the "war on cancer" has produced modest victories with respect to clinical outcomes, our knowledge of the cellular mechanisms of cancer is now vast and represents one of the most significant scientific achievements of the past 40 years. Key aspects of cancer biology will be covered with a combination of textbook and original literature readings. Topics will include cancer cell characteristics, oncogenes, tumor suppressor genes, apoptosis, metastasis and immuno-surveillance of cancer cells. Application of our knowledge to the rational treatment of cancer will also be discussed.							Cell Biology 020.306 or permission of instructor	
AS.020.355	01	N		<b>Fundamentals of Genome Informatics</b> <i>Taylor, James</i>	3.00	30	TTh 12:00-1:15PM					

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				This course will cover fundamental methods used in the analysis of genomic sequencing data, with a particular focus on recent developments in comparative and functional genomic assays. In particular, we will cover approaches for 1) genomic sequencing and assembly, including resequencing and "personal" genomes, 2) comparing genomes and modeling genome evolution, 3) identifying functional elements using both "functional genomics" and computational models. While the course will focus on particular problems in genomics, we will emphasize core algorithmic concepts that generalize to the analysis of other types of biological data.							General Biology 020.151-152, Cell Biology 020.306, and (Calculus I 110.106 or Calculus I 110.108)	
AS.020.363	01	N		<b>Developmental Biology</b>  <i>Norris, Carolyn R; Roberson, Christov; Van Doren, Mark</i> Development of invertebrates, vertebrates, and plants. The course will emphasize the experimental bases for the fundamental concepts of development.	3.00	300	MWF 10:00-10:50AM				Prerequisites: AS.020.306 AND AS.020.330	
AS.020.367	01	N		<b>Primate Adaptation and Evolution</b>  <i>Perry, Jonathan M G</i> A close look at our closest relatives, the primates. Topics include: evolutionary theory, primate evolution, primate behavior and ecology, human evolution, and modern human variation.	3.00	35	TTh 10:30-11:45AM					
AS.020.370	01	N	W	<b>Emerging Strategies and Applications in Biomedical Research</b>  <i>Hattar, Samer</i>	3.00	50	TTh 10:30-11:45AM					

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				Up-to-date primary literature manuscripts related to new discoveries and new strategies that are allowing scientists to make amazing progress in biomedical research will be presented. Examples include: labeling neurons with up to 90 different colors to trace their circuitry, evolution studies in glowing bacteria, detecting several viruses on a single chip and using fiber optics and channel rhodopsin to induce sleep. Students should be interested in reading primary literature research papers and discussing them in class. Recommended Course Background: AS.020.305 or AS.020.306 or AS.080.305 or AS.080.306. Juniors and Seniors only.								
AS.020.373	01			<b>Developmental Biology Lab</b> <i>Norris, Carolyn R; Roberson, Christov</i> This laboratory explores the development of live animals, and students in each section will sometimes be required to return to lab on succeeding days to observe and record the results of their experiments. Corequisite: AS.020.363	2.00	22	T 1:30-5:20PM	First lab meeting 2/1. Registration closes 2/4.	In Person Registration Only		Students must have completed Lab Safety training prior to registering for this class.	
AS.020.373	02			<b>Developmental Biology Lab</b>	2.00	22	W 1:30-5:20PM					
AS.020.373	03			<b>Developmental Biology Lab</b>	2.00	22	Th 1:30-5:20PM					
AS.020.373	04			<b>Developmental Biology Lab</b>	2.00	22	W 5:30-9:20PM					
AS.020.402	01	N		<b>Seminar: Molecular &amp; Cellular Biology</b> <i>Tifft Oshinnaiye, Kathryn Elizabeth</i> This is a weekly seminar designed for students enrolled in the BA/MS program. The seminar involves student presentations of research and discussion of topics of current interest in the field. BA/MS students only.	3.00	15	Th 5:00-8:00PM					
AS.020.420	01	N		<b>Build-a-Genome</b>	4.00	10	MWF 8:30-9:50AM					

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				<p><i>Bader, Joel S; Zeller, Karen</i></p> <p>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 <a href="http://www.syntheticyeast.org">www.syntheticyeast.org</a> 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 EN.580.420, AS.020.451 and EN.540.420. 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. 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.</p>								
AS.020.442	01	N		<p><b>Mentoring In Biology</b></p> <p><i>Pearlman, Rebecca Shari; Shingles, Richard</i></p> <p>This course provides students who have taken General Biology I &amp; II the opportunity to mentor new students in General Biology I &amp; 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. To become a mentor, students must have successfully completed AS.020.151/AS.020.152, must apply using the form on the Biology Department website, and must be accepted by the instructors. The deadline to apply is April 8th. Recommended Course Background: AS.020.151/AS.020.152</p>	1.00	24	F 1:10-1:20PM					

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AS.020.442	02	N		<b>Mentoring In Biology</b>	1.00	15	F 1:30-1:40PM					
AS.020.451	01	N		<b>Build-a-Genome Mentor</b>  <i>Bader, Joel S; Zeller, Karen</i> 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 <a href="http://www.syntheticyeast.org">www.syntheticyeast.org</a> 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. 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.	4.00	5	MWF 8:30-9:50AM				AS.020.420	

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EN.600.438	01	E		<b>Computational Genomics: Data Analysis</b>	3.00	25	TTh 9:00-10:15AM						
				<i>Battle, Alexis</i> Genomic data has the potential to reveal causes of disease, novel drug targets, and relationships among genes and pathways in our cells. However, identifying meaningful patterns from high-dimensional genomic data has required development of new computational tools. This course will cover current approaches in computational analysis of genomic data with a focus on statistical methods and machine learning. Topics will include disease association, prediction tasks, clustering and dimensionality reduction, data integration, and network reconstruction. There will be some programming and a project component. [Applications] Recommended Course Background: EN.600.226 or other programming experience, probability and statistics, linear algebra or calculus. Students may receive credit for EN.600.438 or EN.600.638, but not both.				Recommended Course Background: 600.226 or other programming experience, probability and statistics,			Students may receive credit for EN.600.438 or EN.600.638, but not both.		



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## Biophysics

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AS.250.106	01	N		<b>Introduction to Biomedical Research and Careers I</b> <i>Huang, P C</i> Lecture Series designed for those curious about a career in life sciences, medicine and public health. A novel format combining presentation with didactic interviews gives a broad view of a range of research topics, experimental approaches and logistics, and practical applications as well as career paths. Emphasis is on the excitement of scientific explorations not an abundance of the technical facts and figures. Freshmen and non-science majors. Co-listed with AS50.300 and AS.250.306	1.00	40	T 7:30-8:50PM					
AS.250.131	01	N		<b>Freshman Seminar in Biophysics</b> <i>Cone, Richard A; Fleming, Karen G</i> Introduction of contemporary biophysics research topics through presentations, discussion and hands-on exercise. Freshmen and sophomores only. S/U grading only.	1.00	45	W 1:30-2:50PM			Freshmen Only; Sophomores Only		
AS.250.205	01	N		<b>Introduction to Computing</b> <i>Damjanovic, Ana</i> This course is useful for many disciplines not only the life sciences. It will introduce students to basic computing concepts and tools useful in many applications. Students learn to work in the Unix environment, to write shells scripts, and to make use of powerful Unix commands (e.g grep, awk, and sed). They will learn to program using the Python programming language, graphing software, and a package for numerical and statistical computing, such as Mathematica or MATLAB. At the end of the semester students will complete a project coupling all components of the semester together. Brief lectures followed by extensive hands-on computer laboratories with examples from many disciplines. No prerequisites .Course offered every semester.	3.00	36	TTh 9:00-10:15AM			Freshmen Only; Sophomores Only; X Rising Freshmen		

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## Biophysics

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AS.250.205	02	N		<b>Introduction to Computing</b>	3.00	36	MWF 11:00-11:50AM					
AS.250.205	03	N		<b>Introduction to Computing</b>	3.00	36	MWF 10:00-10:50AM					
AS.250.205	04	N		<b>Introduction to Computing</b>	3.00	36	TTh 12:00-1:15PM					
AS.250.253	01	N		<b>Protein Engineering and Biochemistry Lab</b> <i>Fitch, Carolyn A</i> This laboratory examines the relationship between genes and proteins in the context of disease and evolution. It is a research project lab in which the structural and functional consequences of mutations are determined for a model protein. Students will learn basic protein science and standard biochemical techniques and methods in protein engineering. They will perform experiments in site-directed mutagenesis, protein purification, and structural, functional and physical characterization of proteins. No prerequisites. Courses offered in Fall and Spring semesters.	3.00	24	T 1:30-5:30PM					
AS.250.253	02	N		<b>Protein Engineering and Biochemistry Lab</b>	3.00	24	Th 1:30-5:30PM					
AS.250.253	03	N		<b>Protein Engineering and Biochemistry Lab</b>	3.00	24	F 1:30-5:30PM					
AS.250.253	04	N		<b>Protein Engineering and Biochemistry Lab</b>	3.00	24	M 1:30-5:30PM					
AS.250.265	01	N		<b>Introduction to Bioinformatics</b> <i>Fleming, Patrick</i>	3.00	36	TTh 10:30-11:45AM					



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AS.250.306	01	N		<b>Introduction to Biomedical Research and Careers III</b> <i>Huang, P C</i> Seminar Series designed for those interested in or curious about a career in life sciences and medicine. A novel format combining lectures with talk show interviews gives students a broad view of different research problems, experimental approaches, and practical applications as well as career paths. The emphasis is on the excitement of scientific explorations rather than an abundance of the technical facts and figures. 250.306 is for those who have already taken 250.106 or 250.300. Co-listed with AS.250.106 and AS.250.300.	1.00	10	T 7:30-8:50PM					
AS.250.310	01			<b>Exploring Protein Biophysics using Nuclear Magnetic Resonance (NMR) Spectroscopy</b> <i>Majumdar, Ananya</i>	3.00	6	TTh 12:00-1:15PM					

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				<p>NMR is a spectroscopic technique which provides unique, atomic level insights into the inner workings of biomolecules in aqueous solution. A wide variety of biophysical properties can be studied by NMR. For example, we can use the technique to determine three dimensional structure of biological macromolecules such as proteins and nucleic acids, probe their dynamical properties in solution, study their interaction with other molecules and understand how physico-chemical properties (such electrostatics and redox chemistry) affects and modulates structure-function relationships.</p> <p>NMR exploits the exquisite sensitivity of magnetic properties of atomic nuclei to their local electronic (and therefore, chemical) environment. As a result, biophysical properties can be studied at atomic resolution. That is to say, we can deconstruct global properties of a molecule in terms of detailed, atomic level information. In addition, interactions between nuclei can be exploited to enhance the information content of NMR spectra via multi-dimensional (2D and 3D) spectroscopy. Since these properties can be studied in solution, NMR methods serve as an effective complement to X-Ray crystallography, which also provides detailed, atomic level information in the solid state.</p> <p>In this course, we will learn about the basics of NMR spectroscopy, acquire 1D and 2D NMR spectra and use various NMR experiments to characterize and probe biophysical properties of proteins at an atomic level. Juniors and Seniors Only.</p>				Will meet in UTL G88.	Juniors Only; Seniors Only		( AS.030.101 AND AS.030.105 ) AND ( AS.030.205 ) AND ( AS.030.301 OR AS.250.372 ) AND ( AS.030.315 OR AS.250.315 )		

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AS.250.316	01			<b>Biochemistry II</b>  <i>Rokita, Steven; Woodson, Sarah</i> Biochemical anabolism, nucleic acid structure, molecular basis of transcription, translation and regulation, signal transduction with an emphasis on physical concepts and chemical mechanisms. Format will include lectures and class discussion of readings from the literature.	3.00	30	TTh 9:00-10:15AM				( AS.250.315 OR AS.030.315 OR AS.020.305 ) AND ( AS.030.206 OR AS.030.212 ) or permission of the instructor.	
AS.250.381	01	N		<b>Spectroscopy and Its Application in Biophysical Reactions</b>  <i>Lecomte, Juliette</i> Continues Biophysical Chemistry (AS.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 9:00-9:50AM					
AS.250.383	01		W	<b>Molecular Biophysics Laboratory</b>  <i>Fitch, Carolyn A</i> An advanced laboratory focused on use of methods and principles of molecular biophysics to examine structure-function-energy relationships in biological macromolecules. Equilibrium thermodynamic and kinetic properties of proteins and their function will be studied using: optical spectroscopy (UV-VIS, fluorescence, CD), nuclear magnetic resonance spectroscopy, microcalorimetry, analytical ultracentrifugation, electrophoresis, x-ray crystallography, and mass spectrometry. A variety of computational methods will be employed for data analysis and for graphical visualization of macromolecules. Introduction to Biophysical Chemistry (250.372) and Spectroscopy (250.381) are strongly recommended. Prerequisite: Introduction to Scientific Computing (250.205) or equivalent. Course taught in Fall and Spring with 12 student limit strictly enforced.	3.00	12	W 1:30-5:30PM				Students must have completed Lab Safety training prior to registering for this class.; Prerequisite: AS.250.253 OR AS.020.315 AND (AS.250.307 OR AS.250.315 OR AS.020.305) AND AS.250.372.	

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AS.250.421	01		W	<b>Advanced Seminar in Membrane Protein Structure, Function &amp; Pharmacology</b> <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. Recommended Course Background: AS.030.205, AS.250.307, and AS.250.372	3.00		TTh 10:30-11:45AM					

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## Center for Africana Studies

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AS.070.294	01	HS		<b>Political Anthropology of Africa</b> <i>Obarrio, Juan M</i> The course will explore classical and contemporary ethnographies of the political in Africa, examining how their authors address issues of power, hierarchy and symbol. We will study various articulations of state, ethnicity and community that are analyzed by observing relations between power and resistance or between law, economy and violence through war, custom and ritual. The seminar will also address the way in which Africa has been constituted as a key source of the sub-field of political anthropology through colonial trajectories, postcolonial detours and the political imagination of the past and the future.	3.00	30	M 4:30-6:50PM					
AS.100.205	01	HS	W	<b>Freshman Seminar: Health, Healing, and Medicine in Africa</b> <i>Larson, Pier M</i> A freshman seminar introducing students to the history of health, healing, and forms of medical practice in Africa over the last two centuries.	3.00	16	W 2:30-4:50PM		Freshmen Only			
AS.100.311	01	HS		<b>National Pastimes: Sports, Culture, and American History</b> <i>Davis, Amira Rose</i> National Pastimes examines the development of sports in the United States over the course of the 20th century with a particular interest in the relationship between sports and politics as well as issues of race, gender, sexuality and class.	3.00	18	TTh 10:30-11:45PM					
AS.100.399	01	H	W	<b>Decolonization and Citizenship in Africa, 1945-2015</b> <i>Larson, Pier M</i> Critically explores issues of decolonization and citizenship in Africa from WWII to the present. Emphasis on political inclusion and exclusion, and violence, fostered by nationalist movements and postcolonial African governments.	3.00	15	T 4:00-6:30PM					
AS.180.252	01	S	W	<b>Economics of Discrimination</b> <i>Morgan, Barbara Anne</i>	3.00	30	MW 1:30-2:45PM					



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				This course examines labor market discrimination by gender, race and ethnicity in the United States. What does the empirical evidence show, and how can we explain it? How much of the difference in observed outcomes is driven by differences in productivity characteristics and how much is due to discrimination? How have economists theorized about discrimination and what methodologies can be employed to test those theories? What has been the impact of public policy in this area; how do large corporations and educational institutions respond; and what can we learn from landmark lawsuits? The course will reinforce skills relevant to all fields of applied economics, including critical evaluation of the theoretical and empirical literature, the reasoned application of statistical techniques, and analysis of current policy issues.				This course is for freshmen, sophomores and juniors. This course is not open to seniors.	Freshmen Only; Sophomores Only; Juniors Only		Prerequisite: AS.180.102	
AS.211.319	01	H		<b>¡Salsa! The Afro-Antillean song</b>  <i>Ramos, Maria Del Rosario</i>	3.00	15	MW 12:00-1:15PM					

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				<p>¡Salsa! The Afro-Antillean song surveys Caribbean music in an international Spanish-speaking context. As a language course, it reviews grammar and instils vocabulary acquisition through the close analysis of the biggest hits of salsa from the past one hundred years.</p> <p>On completion of this course the student will have developed the ability to read and critically discuss music and its history in the Spanish-speaking Caribbean and will have examined cultural roots, market dominance, and media crossovers in the musical universe of the Spanish-speaking archipelago of the Antilles. In completing the course's final project students will apply, synthesize, and reflect on what has been covered in the class by creating a professional dossier individualized to their own personal musical interests.</p> <p>Concepts learned in this course will be directly applicable to careers linked to intercultural and international relations while also apply to multiple careers in media, music industry and dance.</p> <p>There is no final exam. May not be taken satisfactory/unsatisfactory. Not open to native speakers of Spanish. No new enrollments permitted after the third class session.</p>								
AS.230.357	01	S	W	<b>Baltimore as an Urban Laboratory</b> <i>Deluca, Stefanie</i>	3.00	15	W 4:00-6:30PM					

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				<p>This course uses the city of Baltimore as a lens through which to explore issues of urban inequality. We will focus on Baltimore's history of racial segregation and concentrated poverty, and its effect on the social and economic well-being of the city and its residents, with attention to education, employment, health and crime. Students will learn how to employ Census data, GIS approaches, and sociological research to inform questions about population change, inequality and the distribution of resources across the city and metropolitan region. Students will also work on one or more policy relevant studies based in Baltimore, including: a project on abandoned and vacant housing, a desegregation intervention, and a longitudinal study of inner city youth. Finally, students will become familiar with Baltimore City's programs and policy approaches to addressing the city's most pressing problems, and will design innovative and effective and innovative solutions as part of their course assignments. Enrollment restricted to Social Policy minors only.</p>								
AS.230.374	01	S	W	<p><b>Poverty and Public Policy</b> <i>Edin, Kathryn</i></p> <p>This course examines the causes and consequences of U.S. urban poverty, it's implications for health and wellbeing, and explores strategies for addressing it. We cover the major theoretical explanations scholars have advanced to explain the persistence of urban poverty including labor markets, residential segregation, welfare policy, family structure, and the criminal justice system. Within each topic area, students are introduced to a range of interventions aimed at alleviating urban poverty. Students will conduct a formal policy analysis of 20 pages and participate in a mock congressional hearing. Enrollment restricted to Social Policy minors only.</p>	3.00	15	M 3:30-6:00PM	<p>Students that took Z Minor Social 360.372 may not take AS.230.374. Will meet in Mergenthaler 537.</p>		<p>Students that took AS.360.372 may not take AS.230.374.</p>		
AS.230.385	01	S	W	<p><b>Schooling, Racial Inequality and Public Policy in America</b> <i>Morgan, Stephen L</i></p>	3.00	15	MW 1:30-2:45PM					

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				After examining alternative explanations for why individuals obtain different amounts and types of educational training, the course focuses on how an individual's family background and race affect his or her trajectory through the educational system. The course covers the specific challenges that have confronted urban schooling in America since the 1960s, including the classic literature on the effects of school and community resources on student achievement as well as the development and later evaluation of school desegregation policies. The course also considers case studies of current policy debates in the US, such as housing segregation and school resegregation, voucher programs for school choice, and the motivation for and consequences of the establishment of state-mandated testing requirements. Throughout the course, emphasis is placed upon the alternative modes of inquiry and writing which opposing scholars, policymakers, and journalists use to address these contentious topics.								
AS.362.304	01	H	W	<b>Reading and Writing Black Poetry</b> <i>Gunn, Amanda N</i>	3.00	15	TTh 1:30-2:45PM					
				This course is an exploration of twentieth and twenty-first century black poetry and poetics. Readings include Paul Laurence Dunbar, Langston Hughes, Gwendolyn Brooks, Amiri Baraka, Sonia Sanchez, Nikki Giovanni, Lucille Clifton, Rita Dove, Natasha Trethewey, Terrance Hayes, Claudia Rankine, and Danez Smith. Texts will be mined for theme as well as formal technique as a basis for poetic experimentation.								
AS.362.332	01	H		<b>#Digital Blackness</b> <i>Gallon, Kim</i>	3.00	19	M 3:00-5:30PM					

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				<p>#BlackLivesMatter, #SayHerName, #ICantBreathe #IfIDieInPoliceCustody #BlackOutDay are just some of the many hashtags that black people have recently created and used on Twitter to protest police brutality and proclaim their full humanity. Over the past two decades Black people have utilized a variety of digital spaces and media to reconfigure the terms and terrain of debates and discussions on what it means to be Black in the United States and larger world. This course is an interdisciplinary investigation of the relationship between historical and contemporary cultural, social and political expressions of Blackness and the digital. More specifically, lectures, readings and class discussions will deconstruct the cultural and social construction of Blackness in the digital in an effort to uncover the ways that meanings of race more broadly and Blackness more narrowly influences and shapes Black Americans' present social status and struggles for social justice.</p>								
AS.362.440	01	H	W	<p><b>Oppression and Revolt</b>  <i>Hayes, Floyd, III.</i>                      This seminar examines the history, theory, and practice of oppression and rebellion in Africa, the Caribbean, and the United States of America. The seminar will focus on popular struggles for liberation against systems of slavery, colonialism, sexism, and racism.</p>	3.00	25	T 1:30-3:50PM					

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AS.310.316	01	H		<b>First Year Classical Chinese: Language and Literature of the Ancient Period</b> <i>Cass, Victoria B</i> Readings in prose and poetic texts of the Zhou and Han Dynasties. Class emphasizes language acquisition, especially grammar and vocabulary memorization. In addition we will read and discuss works in western languages that treat the culture and writers of the Ancient period. Quizzes and Tests (Midterm and Final) will cover both language and cultural data. A short paper also required.	3.00	19	TTh 9:00-10:15AM					
AS.373.112	01			<b>First Year Heritage Chinese II</b> <i>Zhao, Nan</i> For students who have significant previously-acquired ability to understand and speak Modern Standard Chinese. Course focuses on reading and writing. Teaching materials are the same as used in AS.373.115-116; however, both traditional and simplified versions of written Chinese characters are used. Lab required. Continuation of AS.373.111. Recommended Course Background: AS.373.111 or permission required.	3.00	16	MWF 10:00-10:50AM				Prereq: AS.373.111 or equivalent	
AS.373.116	01			<b>First Year Chinese II</b> <i>Chen, Jing-Yun; Zhao, Nan</i> Introductory course in Modern Standard Chinese. Goals: mastery of elements of pronunciation and control of basic vocabulary of 800-900 words and most basic grammatical patterns. Students work first with Pin-Yin system, then with simplified version of written Chinese characters. Continuation of AS.373.115. Note: Student with existing demonstrable skills in spoken Chinese should take AS.373.111-112. Recommended Course Background: AS.373.115 or permission required.	4.50	16	MWF 9:00-9:50AM; TTh 12:00-1:15PM				Prereq: AS.373.115 or equivalent.	

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AS.373.116	02			<b>First Year Chinese II</b>	4.50	16	MWF 11:00-11:50AM; TTh 3:00-4:15PM					
AS.373.116	03			<b>First Year Chinese II</b>	4.50	16	MWF 12:00-12:50PM; TTh 3:00-4:15PM					
AS.373.212	01	H		<b>Second Year Heritage Chinese II</b>  <i>Chen, Aiguo</i> For students who have significant previously-acquired ability to understand and speak Modern Standard Chinese. Course focuses on reading and writing. Teaching materials are the same as used in AS.373.115-116; however, both traditional and simplified versions of written Chinese characters are used. Continuation of AS.373.211. Recommended Course Background: AS.373.211 or permission required.	3.00	16	MWF 11:00-11:50AM				Prereq: AS.373.211 or equivalent.	
AS.373.216	01	H		<b>Second Year Chinese II</b>  <i>Chen, Aiguo; Chen, Yanfei</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 AS.373.211-212. Recommended Course Background: AS.373.215 or Permission Required. Cross-listed with East Asian Studies	4.50	16	MWF 9:00-9:50AM; TTh 12:00-1:15PM				Prereq: AS.373.215 or equivalent.	
AS.373.216	02	H		<b>Second Year Chinese II</b>	4.50	16	MWF 11:00-11:50AM; TTh 3:00-4:15PM					

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AS.373.216	03	H		<b>Second Year Chinese II</b>	4.50	16	MWF 12:00-12:50PM; TTh 3:00-4:15PM					
AS.373.314	01	H		<b>Third Year Heritage Chinese II</b>  <i>Chen, Yanfei</i> This course is a continuation of AS.373.313. 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 included on a regular basis. Recommended Course Background: AS.373.313 or Permission Required. Lab required.	3.00	16	MWF 3:00-3:50PM	Prereq: 373.313 or equivalent			AS.373.313 or equivalent	
AS.373.316	01	H		<b>Third Year Chinese II</b>  <i>Chen, Aiguo</i> 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. Continuation of AS.373.315. Recommended Course Background: AS.373.315 or permission required.	3.00	16	MWF 12:00-12:50PM				Prereq: AS.373.315 or equivalent.	
AS.373.316	02	H		<b>Third Year Chinese II</b>	3.00	15	MWF 3:00-3:50PM					
AS.373.416	01	H		<b>Fourth Year Chinese II</b>  <i>Zhao, Nan</i>	3.00	16	MWF 9:00-9:50AM					



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				Continuation of AS.373.415. Readings in modern Chinese prose, including outstanding examples of literature, newspaper articles, etc. Students should understand most of the readings with the aid of a dictionary, so that class discussion need not focus primarily on detailed explanations of grammar. Discussion, to be conducted in Chinese, will concentrate on the cultural significance of the readings' content.							Prereq: AS.373.415 or equivalent.	
				Recommended Course Background: AS.373.415 or Permission Required. Cross-listed with East Asian Studies								
AS.373.492	01			<b>Fifth Year Chinese</b>	3.00	16	TTh 10:30-11:45AM					
				<i>Zhao, Nan</i> Fifth Year Chinese is designed for students who finished fourth year regular or third year heritage Chinese course at JHU or its equivalent and wish to achieve a higher advanced proficiency level in Chinese. The goal of the course is to help students further develop their listening, speaking, reading and writing skills cohesively and to enhance students' understanding of Chinese culture and society through language learning.							AS.373.491 or equivalent.	
AS.375.116	01			<b>First Year Arabic II</b>	4.50	16	MTWThF 9:00-9:50AM					
				<i>Jafire, Sana</i> Continuation of AS.375.115. 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. Accelerated students should register for Section 01. May not be taken Satisfactory/ Unsatisfactory							Prereq: AS.375.115 or equivalent.	

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AS.375.116	02			<b>First Year Arabic II</b>	4.50	16	MWF 10:00-10:50AM; TTh 10:30-11:20AM					
AS.375.216	01	H		<b>Second Year Arabic II</b>  <i>Rajab, Baraa</i> Continuation of AS.375.215. 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 AS.375.115-116. More authentic material--written, audio, and visual--will be used, and culture will be further expanded on as a fifth skill. Accelerated students should register for Section 01. Recommended Course Background: AS.375.215 or permission required.	4.00	16	MW 11:00-11:50AM; TTh 10:30-11:20AM				Prereq: AS.375.215 or equivalent.	
AS.375.216	02	H		<b>Second Year Arabic II</b>	4.00	16	MTWTh 12:00-12:50PM					
AS.375.302	01	H		<b>Third Year Arabic II</b>  <i>Rajab, Baraa</i> Designed to enhance students' ability to read, discuss, and write about various topics covered in traditional and contemporary Arabic texts. Continuation of AS.375.301. Recommended Course Background: AS.375.301 or permission required.	3.00	16	TTh 9:00-10:15AM				Prereq: AS.375.301 or equivalent.	
AS.375.402	01	H		<b>Fourth Year Arabic II</b>  <i>Jafire, Sana</i> 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. Continuation of AS.375.401. Recommended Course Background: AS.375.302 or equivalent.	3.00	16	TTh 1:30-2:45PM				Prereq: AS.375.401 or equivalent.	

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AS.377.132	01			<b>Elementary Russian II</b>  <i>Samilenko, Olya</i> Designed to give students a firm foundation in the language, with special emphasis on the development of vocabulary, basic reading, and conversational skills. Continuation of AS.377.131. Section 02 taught at Goucher. May not be taken Satisfactory/Unsatisfactory. Recommended Course Background: AS.377.131.	4.00	16	MTWF 9:00-9:50AM					
AS.377.132	02			<b>Elementary Russian II</b>  <i>Czeczulin, Annalisa</i>	4.00	16	MWF 8:30-9:40AM					
AS.377.209	01	H		<b>Adv Russian Grammar</b>  <i>Czeczulin, Annalisa</i> Continuation of AS.377.208. Intensive oral work; continued emphasis on grammar and reading comprehension.	4.00	16	MTWF 11:00-11:50AM					
AS.377.210	01	H		<b>Russian Conversation &amp; Composition</b>  <i>Samilenko, Olya</i> Discussions based on readings, films, and multimedia exercises. Special attention is paid to the active use of grammar structures in fourth semester Russian. Taught at Goucher. Recommended Course Background: AS.377.209 or instructor's permission.	3.00	16	Th 10:00AM-12:30PM	Prereq. AS.377.209 OR instructor's permission.			AS.377.135	
AS.377.269	01	H	W	<b>The Russian Fairy Tale</b>  <i>Czeczulin, Annalisa</i> 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	3.00	16	MWF 1:30-2:20PM					

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AS.377.318	01	H		<b>Chekov and the Short Story</b>  <i>Samilenko, Olya</i> Chekhov's short stories and plays studied against the social, political, and philosophic background of his time. Close readings and in-depth stylistic analysis. Designed for advanced students. Taught in Russian	3.00	16	MWF 10:00-10:50AM					
AS.377.396	01	H		<b>Senior Seminar II: Russian Poetry</b>  <i>Samilenko, Olya</i> A close study of Russian poetry from the eighteenth century to the present, including major poetic movements. Taught in Russian.	3.00	16	MTF 11:00-11:50AM					
AS.378.116	01			<b>First Year Japanese II</b>  <i>Johnson, Mayumi Yuki; 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 fall term, 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 60 kanji in context. Knowledge of grammar will be expanded significantly in 2nd year Japanese. May not be taken Satisfactory/Unsatisfactory. Recommended Course Background: AS.378.115	4.50	16	MWF 10:00-10:50AM; TTh 12:00-1:15PM				Prereq: AS.378.115 or equivalent.	
AS.378.116	02			<b>First Year Japanese II</b>	4.50	16	MWF 11:00-11:50AM; TTh 12:00-1:15PM					

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AS.378.116	03			<b>First Year Japanese II</b>	4.50	16	MWF 12:00-12:50PM; TTh 12:00-1:15PM					
AS.378.216	01	H		<b>Second Year Japanese II</b>  <i>Nakao, Makiko Pennington</i> Continuation of Beginning Japanese and Intermediate Japanese I. Training in spoken and written language, increasing students' knowledge of more complex patterns. At completion, students will have a working knowledge of about 250 Kanji. Lab required. Recommended Course Background: AS.378.215 or equivalent.	4.50	16	MWF 11:00-11:50AM; TTh 10:30-11:45AM				Prereq: AS.378.215 or equivalent.	
AS.378.216	02	H		<b>Second Year Japanese II</b>	4.50	16	MWF 12:00-12:50PM; TTh 12:00-1:15PM					
AS.378.316	01	H		<b>Third Year Japanese II</b>  <i>Nakao, Makiko Pennington</i> 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. Lab required. Continuation of AS.378.315. Recommended Course Background: AS.378.315 or equivalent.	3.00	16	MWF 9:00-9:50AM				Prereq: AS.378.315 or equivalent.	

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AS.378.416	01	H		<b>Fourth Year Japanese II</b>  <i>Nagata, Yoshimi</i> By using four skills in participatory activities (reading, writing, presentation, and discussion), students will develop reading skills in modern Japanese and deepen and enhance their knowledge on Kanji and Japanese culture. Lab required. Recommended Course Background: AS.378.415	3.00	16	TTh 9:00-10:15AM				Prereq: AS.378.415 or equivalent.	
AS.380.102	01			<b>First Year Korean II</b>  <i>Song, Jayoung</i> Focuses on improving speaking fluency to Limited Proficiency so that one can handle simple daily conversations with confidence. It provides basic high-frequency structures and covers Korean holidays. Continuation of AS.380.101. Recommended Course Background: AS.380.101 or permission required.	4.50	20	MWF 9:00-9:50AM; TTh 9:30-10:45AM				Prereq: AS.380.101 or equivalent.	
AS.380.202	01	H		<b>Second Year Korean II</b>  <i>Song, Jayoung</i> Aims for improving writing skills with correct spelling. Reading materials of Korean people, places, and societies will enhance cultural understanding and awareness, including discussion on family tree. Continuation of AS.380.201. Recommended Course Background: AS.380.201 or equivalent.	4.00	16	MF 10:00-10:50AM; TTh 10:30-11:20AM				Prereq: AS.380.201 or equivalent.	

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AS.380.302	01	H		<b>Third Year Korean II</b>  <i>Song, Jayoung</i> Emphasizes reading literacy in classic and modern Korean prose. By reading Korean newspapers and professional articles in one's major, it enables one to be well-versed and truly literate. Continuation of AS.380.301. Cross-listed with East Asian Studies Prerequisite: AS.380.301 or equivalent.	3.00	16	MWF 1:30-2:20PM				Prereq: AS.380.301 or equivalent.	
AS.381.102	01			<b>First Year Hindi II</b>  <i>Saini, Uma</i> This course prepares students to function in everyday situations in the Hindi speaking world. Focuses on the acquisition of basic vocabulary and grammatical structures in culturally authentic contexts through listening, speaking, reading, and writing comprehension. Hindi reading and writing is taught in its original Dayva-nagari script. Oral-aural drills in class and work in the Language Lab is required.	3.00	16	TTh 10:30-11:45AM				Prereq: AS.381.101 or equivalent.	
AS.381.102	02			<b>First Year Hindi II</b>	3.00	16	TTh 3:00-4:20PM					
AS.381.202	01	H		<b>Second Year Hindi II</b>  <i>Saini, Uma</i> 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. Continuation of AS.381.201. Recommended Course Background: AS.381.201 or permission required.	3.00	16	TTh 12:00-1:15PM				Prereq: AS.381.201 or equivalent.	
AS.381.302	01	H		<b>Third Year Hindi II</b>  <i>Saini, Uma</i>	3.00	16	M 4:30-7:15PM					

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				This course is geared towards listening comprehension, enrichment of vocabulary and exposure to various social situations. Students will get an opportunity to learn to narrate and support their views in informal and formal styles. The course will promote a meaningful interaction to understand the cultural nuances.							Prereq: AS.381.301 or equivalent.	
AS.384.116	01			<b>First Year Modern Hebrew II</b> <i>Cohen, Zvi</i> 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.	4.00	16	TBA				AS.384.115	
AS.384.216	01	H		<b>Second Year Modern Hebrew II</b> <i>Cohen, Zvi</i> Designed to enrich vocabulary and provide intensive grammatical review, and enhance fluency in reading, writing and comprehension. Recommended Course Background: AS.384.215 or permission required.	4.00	16	TBA				AS.384.215	
AS.384.316	01	H		<b>Third Year Modern Hebrew II</b> Designed to: maximize comprehension and the spoken language through literary and newspaper excerpts providing the student with the language of an educated Israeli. Recommended Course Background: AS.384.315 or permission required. Cross-listed with Jewish Studies.	4.00	16	TBA				AS.384.315	



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## Chemistry

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AS.030.102	01	N		<b>Introductory Chemistry II</b>  <i>Dagdigian, Paul J</i> Continuation of AS.030.101 emphasizing chemical kinetics, chemical bonding. Topics: energy levels and wavefunctions for particle-in-a-box and hydrogen atom and approximate wavefunctions for molecules including introduction to hybrid orbitals. Note: Appropriate adjusting caps should be used – to ensure both sections are approximately the same size	3.00	290	MWF 9:00-9:50AM	Switching sections requires instructor's approval.			AS.030.101	
AS.030.102	02	N		<b>Introductory Chemistry II</b>  <i>Thyagarajan, Sunita</i>	3.00	290	MWF 10:00-10:50AM					
AS.030.103	01	N		<b>Applied Chemical Equilibrium and Reactivity w/lab</b>  <i>Greco, Jane</i> This course is designed for freshmen who have previously taken AP chemistry or have similar advanced chemistry experience. This course will review an advanced introductory chemistry sequence in a single semester. 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. Students may receive credit for AS.030.103 or EN.510.101, but not both.	4.00	16	MWF 9:00-9:50AM; M 1:30-5:00PM				Students may receive credit for AS.030.103 or EN.510.101, but not both.	
AS.030.103	02	N		<b>Applied Chemical Equilibrium and Reactivity w/lab</b>	4.00	32	MWF 9:00-9:50AM; T 1:30-5:00PM					
AS.030.106	01	N		<b>Introductory Chemistry Laboratory II</b>  <i>Pasternack, Louise</i>	1.00	100	M 1:30-4:20PM					

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				Laboratory work includes some quantitative analysis and the measurement of physical properties. Open only to those who are registered for or have completed Introductory Chemistry. Permission required for pre-college students.				Midterm exams will be held on select Wednesdays at 8am, announced the first day of class.			Students must have completed Lab Safety training prior to registering for this class.; Prerequisite: AS.030.105 AND (AS.030.101 OR EN.510.101)	
AS.030.106	02	N		<b>Introductory Chemistry Laboratory II</b>	1.00	100	T 1:30-4:20PM					
AS.030.106	03	N		<b>Introductory Chemistry Laboratory II</b>	1.00	100	W 1:30-4:20PM					
AS.030.106	04	N		<b>Introductory Chemistry Laboratory II</b>	1.00	100	Th 1:30-4:20PM					
AS.030.106	05	N		<b>Introductory Chemistry Laboratory II</b>	1.00	100	F 1:30-4:20PM					
AS.030.113	01			<b>Chemistry with Problem Solving II</b> <i>Hill, Eric</i> This course is for students who have had moderate or limited exposure to the subject. Special emphasis is placed on scientific problem-solving skills. There are two discussion sections per week, including one devoted exclusively to interactive quantitative problem solving. A typical student may have taken a year of descriptive chemistry as a high school sophomore, but has not been exposed to the problem-solving mathematical approach used in university-level science courses. Taken concurrently with AS.030.101 and AS.030.102.		20	MW 7:30-8:30PM					
AS.030.204	01	N	W	<b>Chemical Structure and Bonding w/Lab</b>  <i>Mcqueen, Tyrel</i>	4.00	16	MWF 9:00-9:50AM; M 1:30-5:00PM					

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				An introduction to the synthesis, structure, and reactivity of inorganic compounds. Modern approaches to chemical bonding, including molecular orbital, ligand field, and crystal field theories, will be applied to understanding the physical and chemical properties of inorganic materials. Other topics to be discussed include magnetic properties, electronic spectra, magnetic resonance spectra, and reaction kinetics. The integrated laboratory will cover basic synthetic, measurement, and calculation methods of inorganic chemistry.							Students must have completed Lab Safety training prior to registering for this class.	
AS.030.204	02	N	W	<b>Chemical Structure and Bonding w/Lab</b>	4.00	32	MWF 9:00-9:50AM; Th 1:30-5:00PM					
AS.030.206	01	N		<b>Organic Chemistry II</b>	4.00	290	MWF 9:00-9:50AM; Th 9:00-10:20AM					
				<i>Lectka, Thomas</i> Continuation of AS.030.205 Organic Chemistry II with biochemistry topics. This course is a continuation of Organic Chemistry I starting with carbonyl chemistry and organometallic reactions. Synthetic strategies and retrosynthetic analysis are emphasized. The second half of the course focuses on biochemical topics including biological pericyclic reactions, carbohydrates, amino acids, proteins, nucleic acids, RNA, DNA, catalysis, and lipids. The organic chemistry of key metabolic steps will also be covered. Students may not simultaneously enroll for AS.030.212 and AS.030.206.				Switching sections requires instructor's approval. Prereq: 030.205 Continuation of 030.205 Organic C			AS.030.205	
AS.030.206	02	N		<b>Organic Chemistry II</b>	4.00	290	MWF 10:00-10:50AM; Th 9:00-10:20AM					
				<i>Falzone, Christopher</i>								
AS.030.212	01	N		<b>Honors Organic Chemistry</b>	4.00	50	MWF 9:00-9:50AM; Th 9:00-10:20AM					

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				<i>Greenberg, Marc</i> Second semester undergraduate organic chemistry from an advanced prospective with connections to modern biological and materials chemistry. The standard topics of second semester organic chemistry (e.g. reactivity of aromatic and carbonyl containing molecules) will be covered with an emphasis on reaction mechanism to facilitate learning about reactivity and enriched with modern examples. In addition, the important role that organic chemistry plays in modern biological (e.g. nucleic acids and proteins) and materials science (e.g. living polymerization and the use of organic chemistry to control macroscopic properties) will be covered. Students may not simultaneously enroll for AS.030.212 and AS.030.206. Prereq: Must receive a B or better in the first semester (AS.030.205).							Must receive a B or better in the first semester (AS.030.205)	
AS.030.225	01	N		<b>Introductory Organic Chemistry Lab</b>	3.00	50	M 1:30-6:30PM; T 9:00-10:20AM					
				<i>D'Souza, Larissa N</i> Techniques for the organic chemistry laboratory including methods of purification, isolation, synthesis, and analysis. Chemistry majors should take this course in the fall semester. Course lecture meets at 9:00 am. Freshman are not eligible to register. Students may not simultaneously enroll in AS.030.225 and AS.030.227.					Sophomores Only; Juniors Only; Seniors Only; Post-Bacc Pre-Med Only		Students must have completed Lab Safety training prior to registering for this class.; EN.510.101 OR ( AS.030.102 AND AS.030.106 ) OR  ( AS.030.103 AND AS.030.205) Permission of instructor required for freshmen.	
AS.030.225	02	N		<b>Introductory Organic Chemistry Lab</b>	3.00	26	T 12:30-5:30PM; T 9:00-10:20AM					

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AS.030.225	03	N		<b>Introductory Organic Chemistry Lab</b>	3.00	50	W 1:30-6:30PM; T 9:00-10:20AM					
AS.030.225	04	N		<b>Introductory Organic Chemistry Lab</b>	3.00	26	Th 12:30-5:30PM; T 9:00-10:20AM					
AS.030.225	05	N		<b>Introductory Organic Chemistry Lab</b>	3.00	50	F 1:30-6:30PM; T 9:00-10:20AM					
AS.030.227	01	N		<b>Chemical Chirality: An Introduction in Organic Chem. Lab, Techniques</b> <i>Hill, Eric</i> This is a project lab designed for freshman who are concurrently enrolled in AS.030.206 or AS.030.212. Techniques for the organic chemistry laboratory including methods of purification, isolation, synthesis, and analysis will be explored through a project focused on chemical chirality. Freshmen only. Students may not simultaneously enroll for AS.030.225 and AS.030.227.	3.00	14	T 9:00-9:50AM; Th 1:30-6:30PM		Freshmen Only		Corequisites: AS.030.206 OR AS.030.212; Prerequisite: AS.030.205	
AS.030.227	02	N		<b>Chemical Chirality: An Introduction in Organic Chem. Lab, Techniques</b>	3.00	14	T 9:00-9:50AM; Th 1:30-6:30PM					
AS.030.228	01			<b>Intermediate Organic Chemistry Laboratory</b> <i>Hill, Eric; Klausen, Rebekka</i> Lab skills already acquired in AS.030.225 will be further developed for synthesis, isolation, purification, and identification of organic compounds. Spectroscopic techniques, applications will be emphasized. Recommended Course Background: AS.030.225	3.00	31	W 1:30-6:30PM; F 1:30-2:30PM; F 2:31-5:00PM				Students must have completed Lab Safety training prior to registering for this class.	
AS.030.302	01	N		<b>Physical Chemistry II</b> <i>Yarkony, David R</i>	3.00	40	MWF 10:00-10:50AM					

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				Introduction to quantum mechanics, its application to simple problems for which classical mechanics fails. Topics: Harmonic oscillator, hydrogen atom, very approximate treatments of atoms and molecules, and theoretical basis for spectroscopy. Recommended Course Background: AS.030.301								
AS.030.306	01	N		<b>Physical Chemistry Instrumentation Laboratory II</b> <i>Tolman, Joel R</i> Designed to illustrate the principles of physical chemistry, introduce the student to spectroscopic techniques and instruments used in modern chemical research. Chemistry majors expected to take this sequence of courses rather than AS.030.307.	3.00	16	M 1:30-2:20PM; M 2:30-6:30PM				Students must have completed Lab Safety training prior to registering for this class.; Pre or Co requisite: AS.030.301 OR AS.030.302; Prerequisite: AS.030.305	
AS.030.306	02	N		<b>Physical Chemistry Instrumentation Laboratory II</b>	3.00	16	T 1:30-2:20PM; T 2:30-6:30PM					
AS.030.316	01			<b>Biochemistry II</b> <i>Rokita, Steven; Woodson, Sarah</i> Biochemical anabolism, nucleic acid structure, molecular basis of transcription, translation and regulation, signal transduction with an emphasis on physical concepts and chemical mechanisms. Format will include lectures and class discussion of readings from the literature.	3.00	30	TTh 9:00- 10:15AM				AS.030.315 OR AS.250.315 OR AS.020.305	

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AS.030.345	01	N		<b>Chemical Applications of Group Theory</b>  <i>Yarkony, David R</i> The theory of the representations of finite and continuous groups will be applied to problems in chemistry.	3.00	25	MW 12:00-1:15PM					
AS.030.402	01			<b>Experimental Methods in Physical Chemistry</b>  <i>Bowen, Kit H, Jr.</i> This course introduces the student to experimental methodologies used in gas phase physical chemistry. Topics to be covered include vacuum technology, charged particle optics, lasers, mass spectrometry, data acquisition, detectors, measurement of temperature and pressure, and design and fabrication of scientific apparatus. These topics will be tied together with examples of specific experimental studies.	3.00	30	TTh 12:00-1:15PM					
AS.030.441	01	N		<b>Spectroscopic Methods of Organic Structure Determination</b>  <i>Falzone, Christopher</i> The course provides fundamental theoretical background for and emphasizes practical application of ultraviolet/visible and infrared spectroscopy, proton and carbon-13 nuclear magnetic resonance and mass spectrometry to the structure proof of organic compounds.	3.00	20	MWF 12:00-12:50PM					
AS.030.451	01	N		<b>Spectroscopy</b>  <i>Dagdigian, Paul J</i> Spectroscopy and structure of molecules starting from rotational, vibrational and electronic spectra of diatomic molecules and extending to polyatomic molecules as time permits. Recommended Course Background: AS.030.302 or permission of instructor.	3.00	15	TTh 9:00-10:20AM					
AS.030.452	01	N		<b>Materials &amp; Surface</b>	3.00	35	TTh 9:00-10:15AM					

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				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.								
AS.250.310	01			<b>Exploring Protein Biophysics using Nuclear Magnetic Resonance (NMR) Spectroscopy</b> <i>Majumdar, Ananya</i>	3.00	6	TTh 12:00-1:15PM					



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				<p>NMR is a spectroscopic technique which provides unique, atomic level insights into the inner workings of biomolecules in aqueous solution. A wide variety of biophysical properties can be studied by NMR. For example, we can use the technique to determine three dimensional structure of biological macromolecules such as proteins and nucleic acids, probe their dynamical properties in solution, study their interaction with other molecules and understand how physico-chemical properties (such electrostatics and redox chemistry) affects and modulates structure-function relationships.</p> <p>NMR exploits the exquisite sensitivity of magnetic properties of atomic nuclei to their local electronic (and therefore, chemical) environment. As a result, biophysical properties can be studied at atomic resolution. That is to say, we can deconstruct global properties of a molecule in terms of detailed, atomic level information. In addition, interactions between nuclei can be exploited to enhance the information content of NMR spectra via multi-dimensional (2D and 3D) spectroscopy. Since these properties can be studied in solution, NMR methods serve as an effective complement to X-Ray crystallography, which also provides detailed, atomic level information in the solid state.</p> <p>In this course, we will learn about the basics of NMR spectroscopy, acquire 1D and 2D NMR spectra and use various NMR experiments to characterize and probe biophysical properties of proteins at an atomic level. Juniors and Seniors Only.</p>				Will meet in UTL G88.	Juniors Only; Seniors Only		( AS.030.101 AND AS.030.105 ) AND ( AS.030.205 ) AND ( AS.030.301 OR AS.250.372 ) AND ( AS.030.315 OR AS.250.315 )		

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## Classics

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AS.010.321	01	H		<b>Pompeii: The Art and Architecture of a Roman Town</b> <i>Tucci, Pier Luigi</i> Pompeii, buried by the eruption of Mons Vesuvius in AD 79, offers the best evidence of everyday life in the Roman world. The course examines its public buildings and houses, as well as the main villas outside the city walls. A final paper will be required.	3.00	20	TTh 10:30AM-11:45PM					
AS.040.106	01			<b>Elementary Ancient Greek</b> <i>Yatromanolakis, Dimitrios</i> Course provides comprehensive, intensive introduction to the study of ancient Greek. The first semester's focus is morphology and vocabulary; the second semester's emphasis is syntax and reading. Credit is given only upon completion of a year's work. Course may not be taken Satisfactory/ Unsatisfactory.	4.00	20	MWF 9:00-9:50AM; TTh 9:00-9:50AM					
AS.040.108	01	H		<b>Elementary Latin</b> <i>Staff</i> Course provides comprehensive, intensive introduction to the study of Latin for new students as well as systematic review for students with background in Latin. The first semester's emphasis is on morphology and vocabulary; the second semester's focus is on syntax and reading. Credit is given only upon completion of a year's work. Course may not be taken Satisfactory/Unsatisfactory.	3.50	15	MWF 10:00-10:50AM					
AS.040.108	02	H		<b>Elementary Latin</b>	3.50	15	MWF 11:00-11:50AM					
AS.040.133	01	H		<b>Heroes: the Ancient Greek Way</b> <i>Montiglio, Silvia</i>	3.00	25	MW 3:00-3:50PM; F 3:00-3:50PM					

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				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.								
AS.040.150	01	H		<b>Island Archeology: Land and Sea in Ancient Crete, Cyprus and the Cyclades</b> <i>Anderson, Emily S.K.</i>	3.00	25	MW 1:30-2:45PM					
				Islands present highly distinctive contexts for social life. We examine three island worlds of the ancient eastern Mediterranean. These are places where water had a unique and powerful meaning and boat travel was part of daily life, where palaces flourished and contact with other societies implied voyages of great distance. Class combines close study of material and visual culture with consideration of island-specific interpretive paradigms; trips to Archaeological Museum.								
AS.040.152	01	H		<b>Medical Terminology</b> <i>Smith, Joshua M</i>	3.00	15	MW 10:00-10:50AM; F 10:00-10:50AM					
				This course investigates the Greek and Latin roots of modern medical terminology, with additional focus on the history of ancient medicine and its role in the development of that terminology.								
AS.040.152	02	H		<b>Medical Terminology</b>	3.00	15	MW 10:00-10:50AM; F 11:00-11:50AM					

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AS.040.206	01	H		<b>Intermediate Ancient Greek</b>  <i>Staff</i> Reading ability in classical Greek is developed through a study of various authors, primarily Plato (fall) and Homer (spring). Recommended Course Background: AS.040.105-AS.040.106 or equivalent.	3.00	15	TTh 12:00-1:15PM	Prerequisite AS.040.105 and AS.040.106 or equivalent.				
AS.040.208	01	H		<b>Intermediate Latin</b>  <i>Yatromanolakis, Dimitrios</i> Reading ability in Latin is developed through the study of various authors, primarily Cicero (fall) and Vergil (spring). Recommended Course Background: AS.040.107-AS.040.108 or equivalent.	3.00	20	TTh 10:30-11:45AM	Prerequisite AS.040.107 and AS.040.108 or equivalent.				
AS.040.218	01	H		<b>Celebration and Performance in Early Greece</b> <i>Anderson, Emily S.K.</i> Surviving imagery suggests that persons in Minoan and Mycenaean societies engaged in various celebratory performances, including processions, feasts, and ecstatic dance. This course explores archaeological evidence of such celebrations, focusing on sociocultural roles, bodily experience, and interpretive challenges.	3.00	15	T 1:30-4:00PM					
AS.040.236	01	H	W	<b>From Apollo to Dionysus: Ritual, Performance, and the Genesis of Tragedy</b> <i>Smith, Timothy Bryan</i> This course explores the origins and development of what is often regarded as the most exemplary form of western art—Classical Athenian Tragedy. Focusing on the ritual, performative, and civic contexts of Greek song culture, it ultimately seeks to pose the question 'what makes Athens unique?'. To this end, the courses is centered on an examination of texts in tandem with material culture (monumental architecture, temples, dedications, statuary, vase painting). Issues of identity, religion, politics, and athletics will be discussed. Dean's Teaching Fellowship course.	3.00	18	TTh 12:00-1:15PM				Prereq: AS.040.111	

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AS.040.306	01	H		<b>Advanced Ancient Greek</b> <i>Montiglio, Silvia</i> Reading of prose or verse authors, depending on the needs of students. Recommended Course Background: AS.040.205-AS.040.206 or equivalent. Co-listed with AS.040.702.	3.00	15	MW 1:30-2:45PM	Prerequisite AS.040.205 and AS.040.206 or equivalent. This semester's focus will be on poetry, Euripides				
AS.040.307	01	H		<b>Advanced Latin Prose</b> <i>Butler, Michael Shane</i> This course aims to increase proficiency and improve comprehension of the Latin language. Intensive reading of Latin texts, with attention to grammar, idiom, translation, etc. Specific offerings vary. Recommended Course Background: AS.040.207-AS.040.208 or equivalent. Co-listed with AS.040.707.	3.00	15	MW 12:00-1:15PM	Prerequisite AS.040.207 and AS.040.208 or equivalent. This semester's focus will be on Cicero.				
AS.040.412	01	H		<b>Junior-Senior Capstone: The Ancient Senses</b> <i>Butler, Michael Shane</i> This course offers immersion in the rapidly expanding interdisciplinary field of sense studies, with an emphasis on the questions posed thereby to classicists and the humanities generally. It should be useful both to students of antiquity with an interest in the senses and to others who want to explore the role of antiquity in shaping sensory theories.	3.00	15	W 3:00-5:30PM		Juniors Only; Seniors Only			
AS.150.401	01	H	W	<b>Greek Philosophy: Plato and His Predecessors</b> <i>Bett, Richard</i> A study of pre-Socratic philosophers, especially those to whom Plato reacted; also an examination of major dialogues of Plato with emphasis upon his principal theses and characteristic methods. Cross-listed with Classics.	3.00		TTh 10:30-11:45AM					

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AS.211.475	01	H	W	<b>Inside the Writer's Laboratory</b> <i>Miglietti, Sara Olivia</i> How do books come to life? Behind every masterpiece is a tale of hard work, dialogue with other texts, and constant negotiations with social and material circumstances that evolve over time. This course opens up the "laboratory" of figures of the European Renaissance like Erasmus, Machiavelli, and Montaigne to explore the world of writerly culture in its manifold expressions, including authorial revision, self-translation, controversy, censorship, intertextuality, and forgery. Our own laboratory will be the Department of the Special Collections, where we will spend a good deal of our time handling manuscripts and early printed books. Course may be used to satisfy major requirements in both French and Italian sections.	3.00	15	M 1:30-4:00PM					
AS.214.445	01	H	W	<b>Boccaccio's Decameron and the Multiplicity of Story-Telling</b> <i>Stephens, Walter E</i> Boccaccio's Decameron (1352), a collection of 100 short stories, ranges from the bawdy through the cynical to the romantic and even fantastic. It has inspired numerous writers, artists, musicians and film-makers. We will read Boccaccio's masterpiece on its own terms and in relation to the development of story-telling, from gossipy "news" (nouvelle) to artistic short story, theatrical adaptation, literary fairy-tale, and the fantastic. The Decameron will be compared with its forerunners in saints' lives, bawdy fabliaux, and moral exempla, and with its literary, theatrical, and filmic imitators in Italy and Europe. Italian graduate students and undergraduate majors will attend an extra weekly meeting conducted in Italian. Those students should enroll in section 2 which will be awarded 4 credits.	3.00	9	W 1:30-4:00PM					
AS.214.445	02	H	W	<b>Boccaccio's Decameron and the Multiplicity of Story-Telling</b>	4.00	3	W 1:30-4:00PM					
AS.389.205	01	H		<b>Examining Archaeological Objects</b>	3.00	14	F 1:30-3:50PM					

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*Balachandran, Sanchita*

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.

Spring 2016

## Cognitive Science

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.050.203	01	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b> <i>Park, Soojin; Purcell, Jeremy Joseph; Rapp, Brenda C</i> This course surveys theory and research concerning how mental processes are carried out by the human brain. Currently a wide range of methods of probing the functioning brain are yielding insights into the nature of the relation between mental and neural events. Emphasis will be placed on developing an understanding of both the physiological bases of the techniques and the issues involved in relating measures of brain activity to cognitive functioning. Methods surveyed include electrophysiological recording techniques such as EEG, ERP, single/multiple unit recording and MEG; functional imaging techniques such as PET and fMRI; and methods that involve lesioning or disrupting neural activity such as cortical stimulation, animal lesion studies, and the study of brain-damaged individuals. (Co-listed as AS.080.203 in Neuroscience.)	3.00	5	T 10:30-11:45AM; TBA	The sections of this course correspond with the sections listed for AS.080.203. Students will meet o				
AS.050.203	02	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	T 10:30-11:45AM; TBA					
AS.050.203	03	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	T 10:30-11:45AM; TBA					
AS.050.203	04	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	T 10:30-11:45AM; TBA					
AS.050.203	05	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	T 10:30-11:45AM; TBA					
AS.050.203	06	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	Th 10:30-11:45AM; TBA					



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AS.050.203	07	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	Th 10:30-11:45AM; TBA					
AS.050.203	08	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	Th 10:30-11:45AM; TBA					
AS.050.203	09	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	Th 10:30-11:45AM; TBA					
AS.050.203	10	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	Th 10:30-11:45AM; TBA					
AS.050.315	01	NS		<b>Cognitive Neuropsychology of Visual Perception: The Malfunctioning Visual Brain</b> <i>McCloskey, Michael E</i> When we think about our ability to see, we tend to think about our eyes, but in fact vision happens mostly in the brain. This course explores the remarkable perceptual deficits that occur when the visual regions of the brain are damaged or fail to develop normally, focusing on what these perceptual malfunctions tell us about normal visual perception. Topics include visual system anatomy and physiology; functional specialization in the lower visual system as revealed by cerebral achromatopsia (color blindness resulting from brain damage) and akinetopsia (impaired motion perception); cortical plasticity in the visual system; spatial deficits in perception and action; and the implications of high-level visual deficits, including prosopagnosia (impaired face recognition), Charles Bonnet syndrome (complex visual hallucinations in blind areas of the visual field), blindsight (accurate responding to visual stimuli despite apparent inability to see them), and Anton's syndrome (denial of blindness).	3.00	75	TTh 12:00-1:15PM			One or more of the following recommended: AS.050.105, AS.050.203, AS.080.203, AS.050.101, OR AS.200.		
AS.050.318	01	NS		<b>Practicum in Language Disorders-Community Based Learning</b>	2.00	2	TBA					

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				<i>Rapp, Brenda C</i> This course provides the opportunity to learn about adult aphasias, 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. Independent mode of transportation required. Co-listed as AS.080.400 in Neuroscience. Additional information can be found on the Department of Neuroscience's website: <a href="http://krieger.jhu.edu/neuroscience/academics/practicums/practicum-in-language-disorders/">http://krieger.jhu.edu/neuroscience/academics/practicums/practicum-in-language-disorders/</a> . Interested students should contact the instructor. Find out more about the practicum site at <a href="http://www.scalebaltimore.org">http://www.scalebaltimore.org</a> .				Students must meet the course and grade prerequisite, be a junior or senior and have a major GPA of	In Person Registration Only		AS.050.105 OR AS.050.203 OR AS.080.203 OR AS.050.311 OR instructor's permisison.		
AS.050.325	01	NS		<b>Phonology I</b> <i>Wilson, Colin</i> An introduction to the basic principles underlying the mental representation and manipulation of language sounds and their relation to human perception and vocal articulation: how units of sound are both decomposable into elementary features and combined to form larger structures like syllables and words. The role of rules and constraints in a formal theory of phonological competence and in accounting for the range of variation among the world's languages. Also offered as AS.050.625.	3.00	40	MW 3:00-4:15PM	Previous experience with one other language-related course is desirable but not obligatory. Graduate					

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AS.050.333	01	NS	W	<b>Psycholinguistics</b> <i>Omaki, Akira</i> 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. Also offered as AS.050.633.	3.00	20	TTh 1:30-2:45PM	Graduate students should register for AS.050.633.			AS.050.102[C] OR AS.050.128 [C] OR AS.050.240[C] OR AS.050.317 [C] OR AS.050.320[C] OR AS.050.325 [C]	
AS.050.345	01	NS	W	<b>Cognitive and Neural Basis of Executive Control</b> <i>Nozari, Nazbanou</i> This course discusses the concept of executive control, a general class of functions that support more specialized cognitive operations such as language and problem solving, and their neural underpinning. Discussion will include classification of executive functions, relationship to working memory, domain-general or specificity of executive control functions, and experimental, neural, and computational approaches to exploring components of executive control, with a special emphasis on the role of cognitive control in the processing of language. The goal of this course is two-fold: to teach students the basic knowledge regarding cognitive and neural mechanisms of executive control, and more importantly to encourage them to put that knowledge to use by asking them to think critically about the readings, to participate in interactive discussions with questions they bring in each week based on the readings assigned for that week, and finally to propose one well thought-out question at the end of the semester and to write a short proposal on how to explore that question. As such, the course puts little emphasis on memorization and a strong emphasis on analytical abilities and integration.	3.00	19	T 3:00-5:30PM	Graudate students should register for AS.050.645.			AS.200.207[C] OR AS.050.333 [C] OR EN.550.111[C]	
AS.050.370	01	NS		<b>Mathematical Models of Language</b> <i>Rawlins, Kyle</i>	3.00	30	MW 1:30-2:45PM					

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				This course will be devoted to the study of formal systems that have proven useful in the cognitive science of language. We will discuss a wide range of mathematical structures and techniques and demonstrate their applications in theories of grammatical competence and performance. A major goal of this course is bringing students to a point where they can evaluate the strengths and weaknesses of existing formal theories of cognitive capacities, as well as profitably engage in such formalization, constructing precise and coherent definitions and rigorous proofs. Graduate students wishing to enroll in this course should register for AS.050.670.				Graduate students should enroll in AS.050.670.			AS.050.101[C] OR AS.050.102 [C] OR AS.050.128[C]	
AS.080.203	01	NS		<b>Cognitive Neuroscience</b>  <i>Park, Soojin; Rapp, Brenda C</i> This course surveys theory and research concerning how the human brain carries out mental processes. The sections of this course correspond with the sections listed for AS.020.203. All sections will meet together on exams day and guest lecture days. Co-listed as AS.050.203 in Cognitive Science.	3.00	20	T 10:30-11:45AM; TBA	The sections of this course correspond with the sections listed for AS.050.203. Students will meet o				
AS.080.203	02	NS		<b>Cognitive Neuroscience</b>	3.00	20	T 10:30-11:45AM; TBA					
AS.080.203	03	NS		<b>Cognitive Neuroscience</b>	3.00	20	T 10:30-11:45AM; TBA					
AS.080.203	04	NS		<b>Cognitive Neuroscience</b>	3.00	20	T 10:30-11:45AM; TBA					
AS.080.203	05	NS		<b>Cognitive Neuroscience</b>	3.00	20	T 10:30-11:45AM; TBA					

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AS.080.203	06	NS		<b>Cognitive Neuroscience</b>	3.00	20	Th 10:30-11:45AM; TBA					
AS.080.203	07	NS		<b>Cognitive Neuroscience</b>	3.00	20	Th 10:30-11:45AM; TBA					
AS.080.203	08	NS		<b>Cognitive Neuroscience</b>	3.00	20	Th 10:30-11:45AM; TBA					
AS.080.203	09	NS		<b>Cognitive Neuroscience</b>	3.00	20	Th 10:30-11:45AM; TBA					
AS.080.203	10	NS		<b>Cognitive Neuroscience</b>	3.00	20	Th 10:30-11:45AM; TBA					
AS.080.320	01	N		<b>The Auditory System</b> <i>Boatman, Dana F</i> This course will cover the neuroanatomy and neurophysiology of the human auditory system from the ear to the brain. Behavioral, electrophysiological, and neuroimaging methods for assessing peripheral and central auditory function will be discussed. Acquired and developmental disorders of auditory function will be reviewed using clinical case studies.	3.00	30	WF 1:30-2:45PM				AS.080.305 OR AS.080.203 OR AS.050.203 OR AS.200.141 OR AS.020.312 or permission of the instructor.	
AS.200.336	01	S		<b>Foundations of Mind</b> <i>Feigenson, Lisa; Halberda, Justin</i> An interdisciplinary investigation into the innateness of concepts: perception, number, language, and morality, physics discussed. Evidence from animals, infants, patients, brains. Students collect data in sections investigating claims from the readings. Cross-listed with Cognitive Science and Philosophy.	4.00	25	TTh 1:30-2:45PM; W 10:00-10:50AM					

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AS.200.336	02	S		<b>Foundations of Mind</b>	4.00	25	TTh 1:30-2:45PM; W 2:00-2:50PM					
AS.200.336	03	S		<b>Foundations of Mind</b>	4.00	25	TTh 1:30-2:45PM; W 3:00-3:50PM					
AS.376.372	01	NS		<b>Introduction to Music Cognition II</b> <i>Lopez-Gonzalez, Monica</i> Continuing from Topics in Music Cognition I, this course explores further the similarities and differences between music and language, the effects of musical training on cognitive development, and the expressive power of music, with an introduction to music and its role in film. We will read relevant research and theory on these topics from cognitive science, neuroscience, psychology, musicology, and philosophical perspectives.	3.00	20	Th 4:30-6:50PM					

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## Dean's Teaching Fellowship Courses

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AS.040.236	01	H	W	<b>From Apollo to Dionysus: Ritual, Performance, and the Genesis of Tragedy</b> <i>Smith, Timothy Bryan</i> This course explores the origins and development of what is often regarded as the most exemplary form of western art—Classical Athenian Tragedy. Focusing on the ritual, performative, and civic contexts of Greek song culture, it ultimately seeks to pose the question ‘what makes Athens unique?’. To this end, the courses is centered on an examination of texts in tandem with material culture (monumental architecture, temples, dedications, statuary, vase painting). Issues of identity, religion, politics, and athletics will be discussed. Dean's Teaching Fellowship course.	3.00	18	TTh 12:00-1:15PM				Prereq: AS.040.111	
AS.060.315	01	H	W	<b>Poetry by Other Means</b> <i>Westcott, Christopher John</i> In this course, we explore the makings of a new genre: the poet's novel. Reaching back to the modernist works of Gertrude Stein and Djuna Barnes to look for its resources and its models, searching for antecedents in the queer avant-gardes of the 1970s, and finally delving into the key poets' novels of just the last five or ten years—including works written by Eileen Myles, Juliana Spahr, Ben Lerner, and Bhanu Kapil—we will collectively develop an account of its yet-uncharted territory and some of its attractions. Our work will open onto a series of questions about both the category of poetry and the significance of narrative, while following thematic threads of friendship, gender and sexuality, self-reflection, feeling, crisis, and utopia. Deans Teaching Fellowship course.	3.00	18	TTh 1:30-2:45PM	This course is restricted to English and Writing Seminars majors and minors until the second week of	Z Major English; Z Major Writing Seminars; Z Minor English			
AS.100.311	01	HS		<b>National Pastimes: Sports, Culture, and American History</b> <i>Davis, Amira Rose</i> National Pastimes examines the development of sports in the United States over the course of the 20th century with a particular interest in the relationship between sports and politics as well as issues of race, gender, sexuality and class.	3.00	18	TTh 10:30-11:45PM					

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AS.130.108	01	H	W	<b>Freshman Seminar: Demons &amp; Doctors: Magic and Medicine in the Ancient Near East</b> <i>Guinn-Villareal, Erin Leigh</i> This course will provide an introduction to the magical and medical arts of ancient Mesopotamia and Syria-Palestine by engaging with ritual texts dealing with disease, exorcisms, sorcery, and harmful ghosts.	3.00	15	TTh 3:00-4:15PM		Freshmen Only			
AS.191.334	01	S		<b>Competing American Exceptionalisms</b> <i>Cha, Taesuh</i> This course explores diverse definitions and theoretical explanations of American exceptionalism in US intellectual history. Also, it investigates the political/academic debates surrounding the role of exceptionalism in American foreign policy.	3.00	15	Th 3:00-5:20PM					
AS.212.339	01	H	W	<b>Constructing Poe: How 19th Century France created an icon</b> <i>Alexander, Abigail Rose</i> Just who was Edgar Allan Poe, and who is he today? This course explores how and why a multitude of 19th-century French writers constructed Poe as an author. Through selected works from Hugo, Baudelaire, Mallarmé, and Verne, to be read alongside Poe's original texts, we will study the means by which these figures projected uniquely French versions of this mysterious American writer the better to stake out their own literary revolutions. By exploring versification, translation, adaptation, and the role of the proper name, we will examine the broad literary history that underlies contemporary understandings of Poe. No knowledge of French is required.	3.00	15	TTh 10:30-11:45AM					
AS.215.345	01	H		<b>Children &amp; Adolescents in Latin America</b> <i>Judy, Lauren Gabrielle</i>	3.00	12	TTh 12:00-1:15PM					



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				Through the close reading of primary texts written by or about adolescents, this course examines youth participation in Latin American art and society from the mid 20th century. Students wishing to complete the writing portions of the course in Spanish or Portuguese should enroll in section 2 which will award 4 credits instead of the usual 3.								
AS.215.345	02	H		<b>Children &amp; Adolescents in Latin America</b>	4.00	6	TTh 12:00-1:15PM	Some background in Spanish or Portuguese is recommended but unnecessary.				
AS.230.152	01	S		<b>Housing and Schools: The Social Contexts of Inequality</b> <i>Rhodes, Anna Catherine</i> Where families live is still a major determinant of the quality of children's schools, and this connection between residential location and educational opportunity plays a significant role in the perpetuation of social inequality. This course will examine recent research in housing and education to develop a critical understanding of the role of social inequality, public policy, and individual choices in shaping housing and school opportunities for families. The course will focus on the intersection of residential and educational choices, by examining housing and school interventions across a host of American cities, with a particular focus on how these issues operate in our own city of Baltimore at the end of the semester.	3.00	15	TTh 3:00-4:15PM					
AS.280.427	01	HN		<b>Communicating Science: Skills to Analyze and Communicate Science News</b> <i>Martin, Nina Maria</i>	3.00	19	TTh 12:00-1:15PM					

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				Science communication is challenging. Experts are seldom trained to translate jargon in everyday language. In this course students will expand their knowledge of the biology basics of several public health issues, develop the critical thinking needed to assess health science reporting, and practice science communication skills.				Students can also receive the instructors permission to register if they do not meet the prereqs.	Juniors Only; Seniors Only		Prereq: AS.020.151 OR AS.020.152 OR AS.020.243 OR AS.020.123 OR AP Biology.	

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## Earth &amp; Planetary Sciences

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.270.110	01	N		<b>Freshman Seminar: Sustainable + Non-Sustainable Resources</b> <i>Sverjensky, Dimitri</i> An introduction to the important resources involved in the origin and production of oil, natural gas, coal, cement, metals and geothermal fluids.	1.00	12	M 3:00-4:00PM		Freshmen Only			
AS.270.113	01	N		<b>Freshman Seminar: Environmental Poisons</b> <i>Sverjensky, Dimitri</i> An exploration of the occurrence and potential effects of poisons in the environment, from naturally occurring ones such as arsenic to those that may be introduced by mankind such as nuclear waste.	1.00	12	W 3:00-4:00PM		Freshmen Only			
AS.270.114	01	N		<b>Guided Tour: The Planets</b> <i>Lewis, Kevin; Strobel, Darrell F</i> An introduction to planetary science and planetary exploration primarily for non-science majors. A survey of concepts from astronomy, chemistry, geology, and physics applied to the study of the solar system.	3.00	110	TTh 1:30-2:45PM					
AS.270.222	01	N		<b>Earth Materials</b>  <i>Charrier, Amanda D</i> An introduction to the properties, occurrence, and origin of the basic constituents of the Earth, including minerals and rocks. Introductory training in the recognition of minerals and rocks in the laboratory and the field.	4.00	15	MWF 11:00-11:50AM; T 1:30-4:30PM				Students must have completed Lab Safety training prior to registering for this class.	

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## Earth &amp; Planetary Sciences

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AS.270.224	01	N		<b>Oceans &amp; Atmospheres</b>  <i>Gnanadesikan, Anand; Waugh, Darryn</i> A broad survey of the Earth's oceans and atmospheres, and their role in the environment and climate. Topics covered include waves, tides, ocean and atmosphere circulation, weather systems, tornadoes and hurricanes, El Niño, and climate change. For science and engineering majors	3.00	30	MWF 1:30-2:20PM					
AS.270.307	01	N		<b>Geoscience Modelling</b>  <i>Haine, Thomas</i> An introduction to modern ways to interpret observations in the context of a conceptual model. Topics include model building, hypothesis testing, and inverse methods. Practical examples from geophysics, engineering, and medical physics will be featured.	4.00	20	TTh 1:30-3:30PM					
AS.270.317	01	N		<b>Conservation Biology</b>  <i>Burgess, Jerry</i> In this course, students examine the meaning and implications of biodiversity with a focus on disciplines associated with conservation biology, wildlife conservation and wildlife management, including taxonomy, genetics, small population biology, chemical and restoration ecology, and marine biology. This includes exploring how conservation biology differs from other natural sciences in theory and in application. Students learn the major threats to biodiversity and what natural and social science methods and alternatives are used to mitigate, stop, or reverse these threats. The course also includes the economic and cultural tradeoffs associated with each conservation measure at the global, national, regional, and local levels. One required field trip.	3.00	25	TTh 5:00-6:15PM					
AS.270.323	01	N		<b>Ocean Biogeochemical Cycles</b>  <i>Gnanadesikan, Anand</i>	3.00	20	MWF 3:00-3:50PM					

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				This course will examine the cycling of trace chemicals in the ocean, consider what we can learn from the distributions of these chemicals about the ocean circulation, and ocean ecosystems. Topics covered will include oceanic biological productivity, open water cycling of nutrients and oxygen, ocean acidification and sediment cycling.								
AS.270.396	01	N		<b>Special Topics in Planetary Exploration</b> <i>Lewis, Kevin; Strobel, Darrell F</i> Topics will vary from year to year based on current missions engaged in the exploration of our Solar System with the selection based on results that break new ground and rewrite textbooks. For the spring 2016 term the New Horizons Mission's spacecraft flyby of the Pluto system will be the focus of the course. In addition to discussing results, the planning, execution of the observations, the retrieval, analysis, and interpretation of data will be presented to understand how missions evolve from concepts to the launch pad, and finally attainment of the science objectives. The fundamental principles necessary to understand chemical, geological, and physical processes within and around the planets will be introduced as needed. Recommended Course Background: Calculus, first year physics and chemistry, and introduction to differential equations are highly desirable.	3.00	15	F 1:30-4:30PM					Y

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AS.270.423	01	N		<b>Planetary Atmospheres</b> <i>Horst, Sarah</i> Fundamental concepts and basic principles of chemistry and physics applied to the study of planetary atmospheres. Vertical structure of planetary atmospheres. Atmospheric radiation, thermodynamics, and transport. Principles of photochemistry. Planetary spectroscopy and remote sensing. Upper atmospheres and ionospheres. Evolution and stability of planetary atmospheres. Recommended Course Background: basic physics, chemistry and calculus	3.00	15	TTh 10:30-11:45AM					
AS.270.496	01		W	<b>Senior Thesis</b> <i>Haine, Thomas</i> Preparation of a substantial thesis based upon independent student research, supervised by at least one faculty member in Earth and Planetary Sciences. Open to Senior departmental majors only. Required for department honors.	3.00	10	TBA					
AS.270.496	02		W	<b>Senior Thesis</b>	4.00	10	TBA					
AS.270.496	03		W	<b>Senior Thesis</b> <i>Passey, Benjamin H</i>	4.00	30	TBA					
AS.271.107	01	N		<b>Introduction to Sustainability</b> <i>Parker, Cindy L</i> Will introduce interactions between global environment and humans, discuss meaning of sustainability, and introduce use of tools to attain sustainability such as policy, law, communication, marketing, research, advocacy, international treaties.	3.00	50	TTh 3:00-4:15PM			Freshmen Only; Sophomores Only; Z Major Global Environmental Change and Sustainability		
AS.271.360	01	N		<b>Climate Change: Science &amp; Policy</b> <i>Waugh, Darryn; Zaitchik, Benjamin</i>	3.00	50	TTh 10:30-11:45AM					

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## Earth &amp; Planetary Sciences

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				Prereq: 270.103 or permission of instructor. This course will investigate the policy and scientific debate over global warming. It will review the current state of scientific knowledge about climate change, examine the potential impacts and implications of climate change, explore our options for responding to climate change, and discuss the present political debate over global warming.								
AS.271.401	01	HS		<b>Environmental Ethics</b> <i>Monopolis, Alexios Nicolaos</i> Environmental Ethics is a philosophical discipline that examines the moral relationship between human beings and the natural environment. Beginning with an analysis of their own values, students will explore complex ethical questions, philosophical paradigms and real-life case studies. Through readings, films, seminar discussions and debates, this course will help students strengthen their ability to communicate viewpoints rooted in ethical principles. Afterwards, students will apply these tools to an examination of contemporary environmental issues, ranging from natural resource depletion, pollution, species extinction, environmental justice, climate change, and overpopulation. This course is geared towards Global Environmental Change & Sustainability and Philosophy majors.	3.00	12	T 1:30-4:00PM		Juniors Only; Seniors Only			
AS.271.403	01	S		<b>Environmental Policymaking and Policy Analysis</b> <i>Serassio, Helen Leanne; Solomon, Rhey M</i>	3.00	10	Th 6:00-8:45PM					

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Earth & Planetary Sciences

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
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This course provides students with a broad introduction to US environmental policymaking and policy analysis. Included are a historical perspective as well as an analysis of future policymaking strategies. Students examine the political and legal framework, become familiar with precedent-setting statutes such as NEPA, RCRA, and the Clean Air and Clean Water Acts, and study models for environmental policy analysis. Cost benefit studies, the limits of science in policymaking, and the impact of environmental policies on society are important aspects of this course. A comparison of national and international policymaking is designed to provide students with the proper perspective. This course is taught in conjunction with an identical graduate course. All students will be expected to perform at a graduate level.

Juniors Only;  
 Seniors Only;  
 Z Major Global  
 Environmental  
 Change and  
 Sustainability



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## East Asian Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.100.248	01	HS		<b>Japan in the World</b> <i>Kim, Hayang</i> This course is an introduction to Japan's history from 1800 to the present with emphasis on the influences of an increasing global circulation of ideas and people. Topics include the emperor system, family and gender, imperialism, World War II, the postwar economy, and global J-pop.	3.00	25	MW 12:00-1:15PM					
AS.100.385	01	HS	W	<b>Mobility and Encounter in the Medieval Indian Ocean</b> <i>El-leithy, Tamer</i> This seminar discusses forms of mobility and exchange- trade and travel, conquest and religious transformation, diasporas and migration, the spread of practices and technologies- across the Indian Ocean from the 8th to 16th centuries.	3.00	16	TTh 12:00-1:15PM					
AS.100.437	01	HS	W	<b>Late Imperial China: History and Fantasy</b> <i>Meyer-Fong, Tobie</i> Students in this seminar will look at the ways in which Chinese and Western scholars, novelists, film-makers, and artists have represented China's Late Imperial period. We will look at the way foreigners have imagined China, and the ways in which Chinese writers past and present have fancifully, nostalgically, and inventively rendered their personal and national pasts. The course will explore issues of historical, geographical, and literary imagination. Cross-listed with East Asian Studies	3.00	12	W 1:30-3:50PM					
AS.190.427	01	S	W	<b>Political Economy of Japan and Korea</b> <i>Chung, Erin</i> This upper-level seminar examines some of the major debates and issues of postwar Japanese and South Korean political economy. Topics include nationalism, gender politics, civil society, immigration, and US-Japan-South Korea trilateral relations.	3.00	15	T 4:00-6:50PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.230.217	01	S	W	<b>Chinese Overseas in Global History</b>  <i>Kuo, Huei-Ying</i> This course examines the topics of Chinese overseas migration after the long sixteenth century. It investigates the following themes: First, the making of Chinese maritime frontier in the longterm trade and migration across the South China Sea and beyond; Second, economic functions of Chinese overseas networks in the East-West integration from the early modern era to the ongoing wave of globalization; Third, politics of identity and heritage in Chinese overseas communities. Course may not be taken by students that previously took AS.230.166.	3.00	19	TTh 10:30-11:45AM					Course may not be taken by students that previously took AS.230.166.
AS.230.435	01	S	W	<b>The China Boom</b>  <i>Hung, Ho-Fung</i> This course addresses the origins, global impacts, and demise of China's economic ascendancy as a world economic and political powerhouse at the turn of the twenty-first century. The course will cover the historical origins of the China boom and impacts of the boom on global political economic order. It will also address the social-political imbalances within China that contribute to the global financial crisis and recent slowdown of the Chinese economy. Particular topics include late imperial and Maoist legacies' relation to contemporary economic growth, stages of China's capitalist development, China's outward investment in the developing world, formation and limits of US-China economic symbiosis, and China's participation in global governance, among others.	3.00	15	MW 4:30-5:45PM					
AS.310.114	01	H		<b>Introduction to East Asian Religions</b>  <i>Joo, Fumiko</i>	3.00	25	MW 12:00-1:15PM					



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AS.310.352	01	S		<b>Current Issues in US-Asia Relations: A Practitioner's View</b> <i>Staff</i> We will examine how major political events, players, norms and institutions have shaped US-Asia relations in the modern era.	3.00	19	T 6:00-8:50PM					
AS.310.432	01	S	W	<b>Senior Thesis Seminar: East Asian Studies</b> <i>Chung, Erin</i> This course is the continuation of Senior Thesis Course AS.360.431 for students completing their thesis in the East Asian Studies program.	3.00	10	TBA					
AS.373.112	01			<b>First Year Heritage Chinese II</b> <i>Zhao, Nan</i> For students who have significant previously-acquired ability to understand and speak Modern Standard Chinese. Course focuses on reading and writing. Teaching materials are the same as used in AS.373.115-116; however, both traditional and simplified versions of written Chinese characters are used. Lab required. Continuation of AS.373.111. Recommended Course Background: AS.373.111 or permission required.	3.00	16	MWF 10:00-10:50AM				Prereq: AS.373.111 or equivalent	
AS.373.116	01			<b>First Year Chinese II</b> <i>Chen, Jing-Yun; Zhao, Nan</i> Introductory course in Modern Standard Chinese. Goals: mastery of elements of pronunciation and control of basic vocabulary of 800-900 words and most basic grammatical patterns. Students work first with Pin-Yin system, then with simplified version of written Chinese characters. Continuation of AS.373.115. Note: Student with existing demonstrable skills in spoken Chinese should take AS.373.111-112. Recommended Course Background: AS.373.115 or permission required.	4.50	16	MWF 9:00-9:50AM; TTh 12:00-1:15PM				Prereq: AS.373.115 or equivalent.	

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.373.116	02			<b>First Year Chinese II</b>	4.50	16	MWF 11:00-11:50AM; TTh 3:00-4:15PM					
AS.373.116	03			<b>First Year Chinese II</b>	4.50	16	MWF 12:00-12:50PM; TTh 3:00-4:15PM					
AS.373.212	01	H		<b>Second Year Heritage Chinese II</b>  <i>Chen, Aiguo</i> For students who have significant previously-acquired ability to understand and speak Modern Standard Chinese. Course focuses on reading and writing. Teaching materials are the same as used in AS.373.115-116; however, both traditional and simplified versions of written Chinese characters are used. Continuation of AS.373.211. Recommended Course Background: AS.373.211 or permission required.	3.00	16	MWF 11:00-11:50AM				Prereq: AS.373.211 or equivalent.	
AS.373.216	01	H		<b>Second Year Chinese II</b>  <i>Chen, Aiguo; Chen, Yanfei</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 AS.373.211-212. Recommended Course Background: AS.373.215 or Permission Required. Cross-listed with East Asian Studies	4.50	16	MWF 9:00-9:50AM; TTh 12:00-1:15PM				Prereq: AS.373.215 or equivalent.	
AS.373.216	02	H		<b>Second Year Chinese II</b>	4.50	16	MWF 11:00-11:50AM; TTh 3:00-4:15PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.373.216	03	H		<b>Second Year Chinese II</b>	4.50	16	MWF 12:00-12:50PM; TTh 3:00-4:15PM					
AS.373.314	01	H		<b>Third Year Heritage Chinese II</b>  <i>Chen, Yanfei</i> This course is a continuation of AS.373.313. 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 included on a regular basis. Recommended Course Background: AS.373.313 or Permission Required. Lab required.	3.00	16	MWF 3:00-3:50PM	Prereq: 373.313 or equivalent			AS.373.313 or equivalent	
AS.373.316	01	H		<b>Third Year Chinese II</b>  <i>Chen, Aiguo</i> 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. Continuation of AS.373.315. Recommended Course Background: AS.373.315 or permission required.	3.00	16	MWF 12:00-12:50PM				Prereq: AS.373.315 or equivalent.	
AS.373.316	02	H		<b>Third Year Chinese II</b>	3.00	15	MWF 3:00-3:50PM					
AS.373.416	01	H		<b>Fourth Year Chinese II</b>  <i>Zhao, Nan</i>	3.00	16	MWF 9:00-9:50AM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				Continuation of AS.373.415. Readings in modern Chinese prose, including outstanding examples of literature, newspaper articles, etc. Students should understand most of the readings with the aid of a dictionary, so that class discussion need not focus primarily on detailed explanations of grammar. Discussion, to be conducted in Chinese, will concentrate on the cultural significance of the readings' content.							Prereq: AS.373.415 or equivalent.	
				Recommended Course Background: AS.373.415 or Permission Required. Cross-listed with East Asian Studies								
AS.378.116	01			<b>First Year Japanese II</b>	4.50	16	MWF 10:00-10:50AM; TTh 12:00-1:15PM					
				<i>Johnson, Mayumi Yuki; 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 fall term, 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 60 kanji in context. Knowledge of grammar will be expanded significantly in 2nd year Japanese. May not be taken Satisfactory/Unsatisfactory. Recommended Course Background: AS.378.115							Prereq: AS.378.115 or equivalent.	
AS.378.116	02			<b>First Year Japanese II</b>	4.50	16	MWF 11:00-11:50AM; TTh 12:00-1:15PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.378.116	03			<b>First Year Japanese II</b>	4.50	16	MWF 12:00-12:50PM; TTh 12:00-1:15PM					
AS.378.216	01	H		<b>Second Year Japanese II</b>  <i>Nakao, Makiko Pennington</i> Continuation of Beginning Japanese and Intermediate Japanese I. Training in spoken and written language, increasing students' knowledge of more complex patterns. At completion, students will have a working knowledge of about 250 Kanji. Lab required. Recommended Course Background: AS.378.215 or equivalent.	4.50	16	MWF 11:00-11:50AM; TTh 10:30-11:45AM				Prereq: AS.378.215 or equivalent.	
AS.378.216	02	H		<b>Second Year Japanese II</b>	4.50	16	MWF 12:00-12:50PM; TTh 12:00-1:15PM					
AS.378.316	01	H		<b>Third Year Japanese II</b>  <i>Nakao, Makiko Pennington</i> 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. Lab required. Continuation of AS.378.315. Recommended Course Background: AS.378.315 or equivalent.	3.00	16	MWF 9:00-9:50AM				Prereq: AS.378.315 or equivalent.	



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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.378.416	01	H		<b>Fourth Year Japanese II</b>  <i>Nagata, Yoshimi</i> By using four skills in participatory activities (reading, writing, presentation, and discussion), students will develop reading skills in modern Japanese and deepen and enhance their knowledge on Kanji and Japanese culture. Lab required. Recommended Course Background: AS.378.415	3.00	16	TTh 9:00-10:15AM				Prereq: AS.378.415 or equivalent.	
AS.380.102	01			<b>First Year Korean II</b>  <i>Song, Jayoung</i> Focuses on improving speaking fluency to Limited Proficiency so that one can handle simple daily conversations with confidence. It provides basic high-frequency structures and covers Korean holidays. Continuation of AS.380.101. Recommended Course Background: AS.380.101 or permission required.	4.50	20	MWF 9:00-9:50AM; TTh 9:30-10:45AM				Prereq: AS.380.101 or equivalent.	
AS.380.202	01	H		<b>Second Year Korean II</b>  <i>Song, Jayoung</i> Aims for improving writing skills with correct spelling. Reading materials of Korean people, places, and societies will enhance cultural understanding and awareness, including discussion on family tree. Continuation of AS.380.201. Recommended Course Background: AS.380.201 or equivalent.	4.00	16	MF 10:00-10:50AM; TTh 10:30-11:20AM				Prereq: AS.380.201 or equivalent.	

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.380.302	01	H		<b>Third Year Korean II</b>  <i>Song, Jayoung</i> Emphasizes reading literacy in classic and modern Korean prose. By reading Korean newspapers and professional articles in one's major, it enables one to be well-versed and truly literate. Continuation of AS.380.301. Cross-listed with East Asian Studies Prerequisite: AS.380.301 or equivalent.	3.00	16	MWF 1:30-2:20PM				Prereq: AS.380.301 or equivalent.	

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## Economics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.180.102	01	S		<b>Elements of Microeconomics</b>  <i>Hamilton, Bruce W</i> An introduction to the economic system and economic analysis with emphasis on demand and supply, relative prices, the allocation of resources, and the distribution of goods and services; theory of consumer behavior, theory of the firm, and competition and monopoly, including the application of microeconomic analysis to contemporary problems. Prerequisite: basic facility with graphs and algebra. *Students who are looking to register for AS.180.102 and need to take the course should attend the first day of class and see Dr. Hamilton immediately afterwards*	3.00	22	MW 9:00-9:50AM; F 9:00-9:50AM					
AS.180.102	02	S		<b>Elements of Microeconomics</b>	3.00	22	MW 9:00-9:50AM; F 9:00-9:50AM					
AS.180.102	03	S		<b>Elements of Microeconomics</b>	3.00	22	MW 9:00-9:50AM; F 9:00-9:50AM					
AS.180.102	04	S		<b>Elements of Microeconomics</b>	3.00	22	MW 9:00-9:50AM; Th 12:00-12:50PM					
AS.180.102	05	S		<b>Elements of Microeconomics</b>	3.00	22	MW 9:00-9:50AM; Th 9:00-9:50AM					
AS.180.102	06	S		<b>Elements of Microeconomics</b>	3.00	22	MW 9:00-9:50AM; Th 9:00-9:50AM					

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## Economics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.180.102	07	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 9:00-9:50AM					
AS.180.102	08	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 10:30-11:20AM					
AS.180.102	09	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 10:30-11:30AM					
AS.180.102	10	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 10:30-11:20AM					
AS.180.102	11	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 10:30-11:20AM					
AS.180.102	12	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 10:30-11:20AM					
AS.180.102	13	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 10:30-11:20AM					
AS.180.102	14	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 12:00-12:50PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.180.102	15	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 12:00-12:50PM					
AS.180.102	16	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 12:00-12:50PM					
AS.180.102	17	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 12:00-12:50PM					
AS.180.102	18	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 12:00-12:50PM					
AS.180.102	19	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 12:00-12:50PM					
AS.180.102	20	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 12:00-12:50PM					
AS.180.102	21	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 1:30-2:20PM					
AS.180.102	22	S		Elements of Microeconomics	3.00	22	MW 9:00-9:50AM; Th 1:30-2:20PM					

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## Economics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.180.102	23	S		<b>Elements of Microeconomics</b>	3.00	22	MW 9:00-9:50AM; F 9:00-9:50AM					
AS.180.102	24	S		<b>Elements of Microeconomics</b>	3.00	22	MW 9:00-9:50AM; F 9:00-9:50AM					
AS.180.203	01			<b>Faculty Research in Economics</b> <i>Hamilton, Bruce W</i> This course will consist of a series of informal lectures by various professors in the Department of Economics. Each lecture will consist of a description of a professional research project which he/shel has undertaken over the course of his/her profession career. S/U grading only.	1.00	40	M 1:30-3:00PM				Prereqs: AS.180.101 AND AS.180.102	
AS.180.217	01	S		<b>Game Theory in Social Sciences</b> <i>Uyanik, Metin</i> Game Theory is the study of multiple person decision problems that are characterized by the social situations in which the well being of a decision maker depends not only on his own actions but also on those of others. Such problems arise frequently in economics, political science, business, military science, history, biology, etc. In this course, I will introduce the basic tools of game theoretic analysis with an emphasis on applications. In particular, you will first learn how to model different social situations as games and related equilibrium concepts. Then, you will see various examples from different fields. And, we will play several games in the class. Game theory has emerged as a branch of mathematical economics and is still quite mathematical. In this course, I will emphasize the conceptual analysis and applications, and keep the level of mathematical technicalities at the minimum. In a nutshell, we will use mostly the verbal and graphical tools.	3.00	15	T 1:30-4:00PM					

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Economics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.180.242	01	S		<b>International Monetary Economics</b>	3.00	125	TTh 12:00-1:30PM				AS.180.102; AS.180.101	
				Balance of payments concepts and the trade balance, exchange rates and the foreign exchange market, expectations, interest rates and capital flows, central banking and monetary policy in open economies, exchange rate regimes and macroeconomic policy. Formerly AS.180.342								
AS.180.252	01	S	W	<b>Economics of Discrimination</b> <i>Morgan, Barbara Anne</i>	3.00	30	MW 1:30-2:45PM				Prerequisite: AS.180.102	
				This course examines labor market discrimination by gender, race and ethnicity in the United States. What does the empirical evidence show, and how can we explain it? How much of the difference in observed outcomes is driven by differences in productivity characteristics and how much is due to discrimination? How have economists theorized about discrimination and what methodologies can be employed to test those theories? What has been the impact of public policy in this area; how do large corporations and educational institutions respond; and what can we learn from landmark lawsuits? The course will reinforce skills relevant to all fields of applied economics, including critical evaluation of the theoretical and empirical literature, the reasoned application of statistical techniques, and analysis of current policy issues.				This course is for freshmen, sophomores and juniors. This course is not open to seniors.	Freshmen Only; Sophomores Only; Juniors Only			

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AS.180.263	01	S		<b>Corporate Finance</b>  <i>Duffee, Gregory R</i> 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	MW 12:00-1:15PM					
AS.180.266	01	S		<b>Financial Markets and Institutions</b>  <i>Faust, Jon</i> Understanding design and functioning of financial markets and institutions, connecting theoretical foundations and real-world applications and cases. Basic principles of asymmetric information problems, management of risk. Money, bond, and equity markets; investment banking, security brokers, and venture capital firms; structure, competition, and regulation of commercial banks. Importance of electronic technology on financial systems.	3.00	125	TTh 10:30-11:45AM				AS.180.101 AND AS.180.102	
AS.180.302	01	S		<b>Macroeconomic Theory</b>  <i>Korinek, Anton</i> The course provides a treatment of macroeconomic theory including a static analysis of the determination of output, employment, the price level, the rate of interest, and a dynamic analysis of growth, inflation, and business cycles. In addition, the use and effectiveness of monetary and fiscal policy to bring about full employment, price stability, and steady economic growth will be discussed.	4.50	42	TTh 1:30-2:45PM; W 8:00-9:30AM	Prereq: 180.101 and 180.102 and a course in calculus.			Coreq for AS.180.302: AS.180.102[C]; AS.180.101 and Calculus 1 or equivalent	



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AS.180.302	02	S		<b>Macroeconomic Theory</b>	4.50	42	TTh 1:30-2:45PM; T 5:30-7:00PM					
AS.180.302	03	S		<b>Macroeconomic Theory</b>	4.50	41	TTh 1:30-2:45PM; T 7:00-8:30PM					
AS.180.302	04	S		<b>Macroeconomic Theory</b>	4.50	41	TTh 1:30-2:45PM; W 5:30-7:00PM					
AS.180.310	01	S	W	<b>Economics Of Antitrust</b>	3.00	20	Th 1:30-4:00PM					
				This course explores the economic rationale for, and consequence of, antitrust laws. In addition to economic analysis we will study landmark antitrust cases.								
AS.180.317	01	S		<b>Economics of Fixed Income Instruments</b>	3.00	20	MW 1:30-2:45PM					
				<i>Duffee, Gregory R</i> Students study economic principles and state-of-the-art mathematical models used to value fixed securities and their dervatives. The course emphasizes advanced practical applications as well as theory. Students will develop their own computer code for price fixed-income instruments and evaluate their risks.								
											AS.180.367	

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AS.180.328	01	S		<b>Economics of Auctions</b> <i>Balat, Jorge F</i> A successfully designed auction depends on the idiosyncrasies of the market being studied. Students will learn the core auction formats and some classic theoretical results that provide a benchmark for even the most recent auctions research. Additionally, students will learn simple empirical strategies that allow these models (and the behavior they predict) to be married with real world data. Students will develop the tools needed for analyzing and conducting auctions research.	3.00	10	TTh 3:00-4:15PM		Juniors Only; Seniors Only		AS.180.301	
AS.180.334	01	QS		<b>Econometrics</b> <i>Krasnokutskaya, Elena</i> 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	MW 1:30-2:45PM				Prerequisite: EN.550.111 OR EN.550.420 OR EN.550.310 OR AS.280.345 OR EN.560.435 OR EN.550.311; Prereq or Coreq: AS.180.301 or AS.180.302	
AS.180.334	02	QS		<b>Econometrics</b>	3.00	30	M 3:00-5:00PM; Th 1:30-2:20PM					
AS.180.336	01	S		<b>Macroeconomic Strategies</b> <i>Barbera, Robert</i> Will sketch out a strategy for anticipating economic turning points. Business cycle basics, monetary policy/financial market/real economy interactions will be reviewed. Long-term growth issues will be explored.	3.00	30	W 1:00-3:30PM		Prereq: 180.101- 102, 180.302 or Perm. Req'd.		AS.180.101 AND AS.180.102 AND AS.180.302 or Perm. Req'd.	
AS.180.346	01	S		<b>Identification and Estimation in Econometrics</b> <i>Sasaki, Yuya</i>	3.00	10	TTh 1:30-2:45PM					



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AS.180.368	01	S		<b>Managerial Economics and Business Strategy</b> <i>Knapp, J. Barclay</i> Seminar on quantitative concepts, decision-making, and strategy in business organizations. Overall context is 'value' – how it is measured and maximized long term. Microeconomic theory of the firm, competitive analysis, corporate finance.	3.00	35	M 1:30-4:00PM				AS.180.301 AND EN.550.111 AND ( EN.551.302 OR AS.180.367 ) or Perm. Req'd.	
AS.180.371	01	S		<b>Industrial Organization</b> <i>Krasnokutskaya, Elena</i> Investigation of firm behavior in markets characterized by imperfect competition. Imperfect competition lies in between monopoly and perfect competition and characterizes most major industries in modern capitalist economies. Central issues to be covered in the course include what determines the intensity of competition? What determines the extent of entry and exit? How is it that some firms consistently dominate their industries?	3.00	40	MW 12:00-1:15PM					

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AS.180.389	01	S		<b>Social Policy Implications of Behavioral Economics</b> <i>Papageorge, Nick W</i> Economists increasingly incorporate insights from psychology into models of rational decision-making. Known as "behavioral economics", this line of research considers how, for example, emotions, rules-of-thumb, biased beliefs and time-inconsistent preferences influence how we make choices. Behavioral economics increasingly pervades policy discussions on topics as diverse as: obesity, the role of media, subprime mortgages and voting patterns. Behavioral models are certainly novel, but do they help us to design superior social policies? With the goal of preparing students to address this question, this course (1) provides a thorough overview of the main contributions of behavioral economics, highlighting departures from more traditional economic models and (2) emphasizes how behavioral economic models might (or might not) improve how we think about social policy.	3.00	25	TTh 9:00-10:15AM				Prereqs: AS.180.301 AND AS.180.334 or knowledge of statistical analysis up to the level of multi-variate regression.	
AS.230.374	01	S	W	<b>Poverty and Public Policy</b> <i>Edin, Kathryn</i> This course examines the causes and consequences of U.S. urban poverty, it's implications for health and wellbeing, and explores strategies for addressing it. We cover the major theoretical explanations scholars have advanced to explain the persistence of urban poverty including labor markets, residential segregation, welfare policy, family structure, and the criminal justice system. Within each topic area, students are introduced to a range of interventions aimed at alleviating urban poverty. Students will conduct a formal policy analysis of 20 pages and participate in a mock congressional hearing. Enrollment restricted to Social Policy minors only.	3.00	15	M 3:30-6:00PM	Students that took 360.372 may not take AS.230.374. Will meet in Mergenthaler 537.	Z Minor Social Policy	Students that took AS.360.372 may not take AS.230.374.		
EN.570.428	01	S	W	<b>Problems in Applied Economics</b> <i>Hanke, Steve H</i>	3.00	19	TBA; F 4:45-5:45PM					Y

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				<p>This course focuses on a monetary approach to national income determination and the balance of payments. Money and banking, as well as commodity and financial markets, are dealt with under both central banking, as well as alternative monetary regimes. Particular emphasis is placed on currency board systems. Students learn how to properly conduct substantive economic research, utilizing primary data sources, statistical techniques and lessons from economic history. Findings are presented in the form of either memoranda or working papers of publishable quality. Exceptional work may be suitable for publication through the Johns Hopkins Institute for Applied Economics, Global Health, and the Study of Business Enterprise. Advanced excel programming skills are required and students are expected to be pre-screened for research at the Library of Congress in Washington, D.C.. Bloomberg certification is a pre-requisite.</p>				Class will meet in Ames 240.			EN.660.203 AND AS.180.101 AND AS.180.102	
EN.570.470	01	QS	W	<p><b>Applied Economics &amp; Finance</b> <i>Hanke, Steve H</i></p> <p>This course focuses on company valuations, using the proprietary Hanke-Guttridge Discounted Free Cash Flow Model. Students use the model and primary data from financial statements filed with the Securities and Exchange Commission to calculate the value of publically-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. A heavy emphasis is placed on research and writing. Work products are expected to be of publishable quality.</p>	3.00	12	F 1:30-4:30PM				EN.660.203 AND ( EN.570.428 OR AS.360.528)	Y

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AS.060.100	01	H	W	<b>Introduction to Expository Writing</b> <i>Evans, William</i> Introduction to "Expos" is designed to introduce less experienced writers to the elements of academic argument. Students learn to recognize the paradigm of academic argument as they learn to read and summarize academic essays, and then they apply the paradigm in academic essays of their own. Classes are small, no more than 10 students, and are organized around three major writing assignments. Each course guides students' practice through pre-writing, drafting, and revising, and includes discussions, workshops, and tutorials with the instructor. In addition to its central focus on the elements of academic argument, each "Intro" course teaches students to avoid plagiarism and document sources correctly. "Intro" courses do not specialize in a particular topic or theme and are available to freshmen only.	3.00	10	MW 1:30-2:45PM		Freshmen Only			
AS.060.100	02	H	W	<b>Introduction to Expository Writing</b> <i>Brodsky, Anne-Elizabeth Murdy</i>	3.00	10	TTh 10:30-11:45AM					
AS.060.100	03	H	W	<b>Introduction to Expository Writing</b>	3.00	10	TTh 12:00-1:15PM					
AS.060.103	01	H	W	<b>Novels After 9-11</b> <i>Favret, Mary</i>	3.00	18	TTh 1:30-2:45PM					





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AS.060.107	01	H	W	<b>Introduction to Literary Study</b> <i>Rosenthal, Jesse Karl</i> See section descriptions.	3.00	20	MW 3:00-4:15PM					
AS.060.107	02	H	W	<b>Introduction to Literary Study</b> <i>Achinstein, Sharon</i>	3.00	20	TTh 10:30-11:45AM			Freshmen seats held 8; Seats for All ASEN students 12		
AS.060.114	01	H	W	<b>Expository Writing: Freedom of Will in Neuroscience &amp; Philosophy</b> <i>Brandau, John Alexander</i> "Expos" is designed to introduce more confident student writers to the elements of academic argument. Students learn to apply the paradigm of academic argument in academic essays of their own. Classes are capped at 15 students and organized around four major writing assignments. Each course guides students' practice through pre-writing, drafting, and revising, and includes discussions, workshops, and tutorials with the instructor. In addition to its central focus on the elements of academic argument, each "Expos" course teaches students to document sources correctly and provides its own topic or theme to engage students' writing and thinking. Please see the following list of individual course descriptions to decide which sections of "Expos" will most interest you. "Expos" courses are available to freshmen, sophomores, and juniors, and to seniors by special permission.	3.00	15	MWF 9:00-9:50AM		Freshmen Only; Sophomores Only; Juniors Only; Seniors Only	Freshmen seats held 8; Seats for All ASEN students 7		
AS.060.114	02	H	W	<b>Expository Writing: Roman Gladiators</b> <i>Campbell, Elisabeth</i>	3.00	15	MWF 9:00-9:50AM					

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AS.060.114	03	H	W	<b>Expository Writing: Balancing Freedom and Security</b> <i>Webber, Robert Paul</i>	3.00	15	MWF 10:00-10:50AM					
AS.060.114	04	H	W	<b>Expository Writing: Dissent and the Power of Persuasion</b> <i>Day, Robert</i>	3.00	15	MWF 10:00-10:50AM					
AS.060.114	05	H	W	<b>Expository Writing:</b> <i>Staff</i>	3.00	15	MW 12:00-1:15PM					
AS.060.114	06	H	W	<b>Expository Writing: Life, the Cosmos, and Intelligent Design</b> <i>Stojanovic, Pavle</i>	3.00	15	TTh 9:00-10:15AM					
AS.060.114	07	H	W	<b>Expository Writing: The Power of Language and the Force of Law</b> <i>O'Connor, Marie T</i>	3.00	15	MW 12:00-1:15PM					
AS.060.114	08	H	W	<b>Expository Writing: The Power of Language and the Force of Law</b>	3.00	15	MW 1:30-2:45PM					
AS.060.114	09	H	W	<b>Expository Writing: Hitchcock</b> <i>Sisson, Andrew Reynolds</i>	3.00	15	MW 1:30-2:45PM					
AS.060.114	10	H	W	<b>Expository Writing: Detective Stories</b> <i>Tye, Douglas Allen</i>	3.00	15	MW 1:30-2:45PM					
AS.060.114	11	H	W	<b>Expository Writing: Better Than Human</b> <i>Flaherty, Matthew Thomas</i>	3.00	15	MW 3:00-4:15PM					

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AS.060.114	12	H	W	<b>Expository Writing: Welcome to a Strange New Place</b> <i>Miller, William Cook</i>	3.00	15	TTh 9:00-10:15AM					
AS.060.114	13	H	W	<b>Expository Writing: The Body as Art</b> <i>Libina, Maria</i>	3.00	15	TTh 10:30-11:45AM					
AS.060.114	14	H	W	<b>Expository Writing: Living Other Lives in American Short Stories</b> <i>Berger, Donald W</i>	3.00	15	TTh 10:30-11:45AM					
AS.060.114	15	H	W	<b>Expository Writing: Visions of War</b> <i>Hoffmann, John</i>	3.00	15	TTh 12:00-1:15PM					
AS.060.114	16	H	W	<b>Expository Writing: Western Movies</b> <i>Schade, Johannes</i>	3.00	15	TTh 12:00-1:15PM					
AS.060.114	17	H	W	<b>Expository Writing: Family Matters</b> <i>Watters, Aliza</i>	3.00	15	TTh 12:00-1:15PM			New Freshman Seats Held 8; Seats for All ASEN students 7		
AS.060.114	18	H	W	<b>Expository Writing: Family Matters</b>	3.00	15	TTh 1:30-2:45PM			Freshmen seats held 8; Seats for All ASEN students 7		

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AS.060.114	19	H	W	<b>Expository Writing: The Power and Perils of Irony</b> <i>Maioli dos Santos, Roger</i>	3.00	15	TTh 1:30-2:45PM					
AS.060.114	20	H	W	<b>Expository Writing: Fairy Tales</b> <i>Bujak, Nicholas</i>	3.00	15	TTh 3:00-4:15PM					
AS.060.114	21	H	W	<b>Expository Writing: American Gothic</b> <i>Tempesta, Erica N</i>	3.00	15	TTh 3:00-4:15PM					
AS.060.114	22	H	W	<b>Expository Writing:</b> <i>Staff</i>	3.00	15	MW 1:30-2:45PM					
AS.060.114	23	H	W	<b>Expository Writing:</b>	3.00	15	TTh 10:30-11:45AM					
AS.060.114	24	H	W	<b>Expository Writing:</b>	3.00	15	TTh 3:00-4:15PM					
AS.060.139	01	H	W	<b>Expository Writing: The Narrative Essay</b> <i>Kain, Patricia</i>	3.00	12	MW 1:30-2:45PM					

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				Telling stories is one of the first and most important ways that human beings try to make sense of the world and their experience of it. The narrative art informs fiction and nonfiction alike, is central to the writing of history, anthropology, crime reports and laboratory reports, sports stories and political documentaries. What happened? The answer may be imagined or factual, but it will almost certainly be narrative. This course focuses on the narrative essay, a nonfiction prose form that answers the question of "what happened" in a variety of contexts and aims to make sense not only of what happened but how and why. We will begin by summarizing narrative essays, will move to analyzing them, and in the second half of the course you will write two narrative essays of your own, the first based on a choice of topics and sources, the second of your own design. Authors may include James Baldwin, Annie Dillard, Chang Rae Lee, Danielle Ofri, George Orwell, Richard Rodriguez, Richard Selzer, and Abraham Verghese. You will learn the power of narrative to inform and persuade as you test that power in your own writing.									
AS.060.208	01	H		<b>Brit Lit I</b>	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM						
				<i>Childers, Joel Michael; Daniel, Andrew</i> This lecture course tracks the development of vernacular literature in English from the medieval period to the close of the early modern period. Texts include Chaucer's Canterbury Tales, Spenser's The Faerie Queene, Milton's Paradise Lost and Alexander Pope's "The Rape of the Lock."									
AS.060.208	02	H		<b>Brit Lit I</b>	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM						
				<i>Daniel, Andrew; Scozzaro, Concetta Elena</i>									
AS.060.208	03	H		<b>Brit Lit I</b>	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM						

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				<i>Best, Royce Lee; Daniel, Andrew</i>									
AS.060.265	01	H		<b>Nineteenth Century British Novel</b>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM						
				<i>Rosenthal, Jesse Karl</i>									
				Reading major novelists from the nineteenth century including Austen, C. Brontë, Dickens, Eliot, Hardy, and Conrad. We will pay attention to formal conventions, and relation to social and historical context.						Freshmen seats held 5; Seats for All ASEN students 15			
AS.060.265	02	H		<b>Nineteenth Century British Novel</b>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM						
AS.060.265	03	H		<b>Nineteenth Century British Novel</b>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM						

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AS.060.302	01	H	W	<b>Theology of the Narrative</b> <i>Hickman, Jared W</i> "Everything happens for a reason." "I guess it wasn't meant to be." People often impose a narrative logic on life events by reference—however attenuated—to a transcendent order of meaning. This course asks two basic questions: How do theological concepts such as God's omniscience, Providence, predestination, and prophecy get translated into particular narrative structures? How does narrative experimentation function as a critique of traditional theological viewpoints, particularly around the question of how divine agency is related to the existence of evil? Course texts may include: The Book of Job, Denis Diderot, Jacques the Fatalist; Olaudah Equiano, Interesting Narrative; Herman Melville, Moby-Dick; James Agee and Walker Evans, Let Us Now Praise Famous Men; James Baldwin, Go Tell It on the Mountain; Marilynne Robinson, Gilead and Home; Scarlett Thomas, Our Tragic Universe; Terrence Malick, dir., The Tree of Life.	3.00	18	W 1:30-3:50PM	This course is restricted to English and Writing Seminars majors and minors until the second week of	Z Major English; Z Major Writing Seminars; Z Minor English		AS.060.107 Intro to Literary Study, English Lecture Course, or Instructor approval.	
AS.060.314	01	H	W	<b>Social Media Fictions</b> <i>Jackson, Jeanne-Marie</i> Writers around the world are now searching for ways to incorporate new modes of social interaction - e.g. Facebook, Twitter, text messaging, and Skype - into their print work. This course explores the various techniques they have adopted for this purpose, with an eye to critically evaluating their implications for narrative structure and its "reality effect." From Teju Cole's very public experiments with the Twitter novel to a Zimbabwean writer's attempt to capture plot turns through SMS, we will discuss the ways in which narrative is helped or hindered by the ubiquity of social media. Writers studied will include Tendai Huchu, Zadie Smith, Jonathan Franzen, and Eben Venter.	3.00	18	TTh 9:00-10:15AM	This course is restricted to English and Writing Seminars majors and minors until the second week of	Z Major English; Z Major Writing Seminars; Z Minor English			
AS.060.315	01	H	W	<b>Poetry by Other Means</b> <i>Westcott, Christopher John</i>	3.00	18	TTh 1:30-2:45PM					

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English

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				In this course, we explore the makings of a new genre: the poet's novel. Reaching back to the modernist works of Gertrude Stein and Djuna Barnes to look for its resources and its models, searching for antecedents in the queer avant-gardes of the 1970s, and finally delving into the key poets' novels of just the last five or ten years—including works written by Eileen Myles, Juliana Spahr, Ben Lerner, and Bhanu Kapil—we will collectively develop an account of its yet-uncharted territory and some of its attractions. Our work will open onto a series of questions about both the category of poetry and the significance of narrative, while following thematic threads of friendship, gender and sexuality, self-reflection, feeling, crisis, and utopia. Deans Teaching Fellowship course.				This course is restricted to English and Writing Seminars majors and minors until the second week of	Z Major English; Z Major Writing Seminars; Z Minor English			
AS.060.342	01	H	W	<b>Contemporary Novel of Ideas</b> <i>Jackson, Jeanne-Marie</i>	3.00	18	T 4:30-6:50PM					
				The novel of ideas is often traced to 18th century French or 19th century Russian writing, but it has come broadly to signify works of robust philosophical contemplation. The inherently slippery term seems to indicate a work in which "form" is subsidiary to "content," or at least, in which narrative structures adapt to prioritize thought rather than style, image, or even character. But how, exactly, and about what, do novels "think?" In large part, the novel of ideas is now conflated with a rote and recognizable brand of social realism. This course asks what might qualify as a novel of ideas today, both in terms of the novel's changing relation to geographical space (and thereby the formal spaces in which philosophy might lurk), and of the particular "ideas" it critiques or puts forth. We will read novelists including J.M. Coetzee, Marlene van Niekerk, Jonathan Franzen, Teju Cole, and Ronan Bennett within a longer literary-philosophical tradition, with reference to works such as <i>Candide</i> , <i>War and Peace</i> , <i>Thus Spoke Zarathustra</i> , and Kierkegaard's <i>Diary of a Seducer</i> .				This course is restricted to English and Writing Seminars majors and minors until the second week of	Z Major English; Z Major Writing Seminars; Z Minor English			
AS.060.355	01	H	W	<b>Eighteenth Century British Literature</b> <i>O'Briain, Katarina Louisa</i>	3.00	18	MW 3:00-4:15PM					



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				This course surveys major authors, genres, and literary movements from 1690-1800. Topics to be discussed include the gendered division of labor, ecological consciousness, British imperialism, the rise of capitalism, and the relation between literary and material labor. We will be reading a variety of texts in poetry, prose, drama, and the novel from authors including Alexander Pope, Daniel Defoe, Jonathan Swift, Eliza Haywood, Stephen Duck, Mary Collier, Mary Leaper, Samuel Richardson, Thomas Gray, Oliver Goldsmith, William Wordsworth, Anna Laetitia Barbauld, and William Blake. Texts will be supplemented with historical, philosophical, and theoretical materials where appropriate. A pre-1800 course.				This course is restricted to English and Writing Seminars majors and minors until the second week of	Z Major English; Z Major Writing Seminars; Z Minor English			
AS.060.358	01	H	W	<b>Prophecy and Enlightenment</b> <i>Miller, William Cook</i>	3.00	18	Th 1:30-3:50PM	This course is restricted to English and Writing Seminars majors and minors until the second week of	Z Major English; Z Major Writing Seminars; Z Minor English			
				This class considers the relationship between prophecy and enlightenment. These two knowledge regimes, the revelatory and the rational, are often assumed to be opposed, with rationality triumphing over revelation in the seventeenth and eighteenth centuries. In recent years, notably post-9/11, we have seen a resurgence of this view from a variety of perspectives, whether that of the new atheism or that of historians of enlightenment. We will turn to a number of important primary texts associated with major enlightenment thinkers in order to interrogate more closely the opposition of prophecy and enlightenment at the point of its supposed origin. Doing so should help at once to clarify and complicate the important contemporary narrative pitting science against religion and vice versa. Later in the semester, we will turn to a number of twentieth-century thinkers who bring quite different perspectives to the role of revelation in the history of reason. Pre-1800s course.								
AS.060.359	01	H	W	<b>Posthumanist Literature</b> <i>Haley, Joseph Andrew</i>	3.00	18	TTh 9:00-10:15AM					

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				Much of the attention surrounding posthumanism has centered upon a late twentieth-century archive of speculative fiction. This 300-level course would take a longer view, tracing a prehistory of literary and critical discourses that challenge the distinction between humanity and its nonhuman others from the late enlightenment to the present day. Students will begin with sections from Jonathan Swift's Gulliver's Travels and A Modest Proposal, then progress through texts that link the humanist themes of exploration and conquest to problems of consumption and divergent forms of life, including Herman Melville's Typee and Thomas M. Disch's The Genocides. Next they will turn to the link between the bildungsroman, human enhancement, and the concept of "bare life." Readings in this section include Neal Stephenson's The Diamond Age, Philip K. Dick's Do Androids Dream of Electric Sheep, Franz Kafka's "The Hunger Artist," and Primo Levi's If This Is a Man. We will then consider the link between "monstrosity," hetero-normativity, and sexual abjection. Readings include Mary Shelley's Frankenstein, James Baldwin's Another Country, and Margaret Atwood's Handmaiden's Tale. The course will conclude with two units on posthuman ethics. The first of these, on the concept of "singularity," will include J.G. Ballard's The Drowned World and William Gibson's Neuromancer. Finally, students will consider what Donna Haraway has termed "companion species," with readings to include Franz Kafka's The Metamorphosis and J.M. Coetzee's Elizabeth Costello. Critical readings will include selections from Katherine Hayles, How We Became Posthuman; Donna Haraway, "A Cyborg Manifesto"; Friedrich Nietzsche, Human, All too Human; Michel Foucault, The History of Sexuality, vol. I; Giorgio Agamben, The Coming Community and Homo Sacer; Jean Jacques Rousseau, Émile; H.G. Wells, Anticipations and Mankind in the Making; Nick Bostrom, Human Enhancement and Global Catastrophic Risks; Alan Weisman, The World With				This course is restricted to English and Writing Seminars majors and minors until the second week of	Z Major English; Z Major Writing Seminars; Z Minor English			

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				<i>Nealon, Christopher</i> Two great arguments structure literary criticism and theory: what makes something literature, and what makes something good literature? These arguments will surely never end; but to participate in them can be a great pleasure, and it can sharpen your appreciation of literary writing across the ages. This course will introduce you to the long conversation that has come to be called "literary theory," with the aim of helping you learn to love not only reading literature, but describing it. Our readings will range from Plato and Aristotle to Kant, Hegel, and Scheiermacher, on to Marx, Freud, and Nietzsche, and finally to a range of recent thinkers.				This course is restricted to English and Writing Seminars majors and minors until the second week of	Z Major English; Z Major Writing Seminars; Z Minor English			
AS.060.374	01	H	W	<b>Border Crossings: Travel Writing and the Journeys of Nonfiction</b> <i>de Kock, Leon</i> The rise of "creative nonfiction", in tandem with the acceleration of "reality hunger" in recent years, has shifted scholarly attention (and book sales) in the direction of that which is perceived to be real or true rather than merely imagined or fabricated. But how fictional is "faction", and through what narrative means is the "real" produced? If nonfiction is a journey that involves the simultaneous opening and occulting of the real, then how does travel writing stitch together its quilts of place and emplacement? These are the kinds of questions we will be asking in this course, based on readings of celebrated contemporary nonfiction writers from across the globe: Haruki Marukami (Underground: The Tokyo Gas Attack and the Japanese Psyche), Katherine Boo (Behind the Beautiful Forevers: Life, Death, and Hope in a Mumbai Undercity), Bruce Chatwin (The Songlines), Jonny Steinberg (A Man of Good Hope), Paul Theroux (The Great Railway Bazaar), and V.S. Naipual (The Enigma of Arrival). Only open to English Major/minors and Writing Seminars Majors	3.00	18	TTh 9:00-10:15AM		Z Major English; Z Major Writing Seminars; Z Minor English			
AS.211.475	01	H	W	<b>Inside the Writer's Laboratory</b> <i>Miglietti, Sara Olivia</i>	3.00	15	M 1:30-4:00PM					

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				How do books come to life? Behind every masterpiece is a tale of hard work, dialogue with other texts, and constant negotiations with social and material circumstances that evolve over time. This course opens up the "laboratory" of figures of the European Renaissance like Erasmus, Machiavelli, and Montaigne to explore the world of writerly culture in its manifold expressions, including authorial revision, self-translation, controversy, censorship, intertextuality, and forgery. Our own laboratory will be the Department of the Special Collections, where we will spend a good deal of our time handling manuscripts and early printed books. Course may be used to satisfy major requirements in both French and Italian sections.								
AS.300.346	01	H		<b>Forms of Moral Community: The Contemporary World Novel</b> <i>Ong, Yi-Ping</i> Literary and philosophical imaginations of moral community in the post-WWII period (1950-2001). Texts include: Coetzee, Disgrace; McEwan, Atonement; Achebe, Things Fall Apart; Ishiguro, An Artist of the Floating World; Roy, The God of Small Things; Lessing, The Grass is Singing; Mistry, A Fine Balance; Morrison, Beloved; and essays by Levi, Strawson, Adorno, Murdoch, Beauvoir and Barthes on the deep uncertainty over moral community after the crisis of World War II. Close attention to novelistic style and narrative will inform our study of the philosophical questions that animate these works. What does it mean to acknowledge another person's humanity? Who are the members of a moral community? Why do we hold one another responsible for our actions? How do fundamental moral emotions such as contempt, humiliation, compassion, gratitude, forgiveness, and regret reveal the limits of a moral community? Cross listed with English.	3.00	20	M 1:30-4:00PM					
AS.300.363	01	H	W	<b>Reading Judith Shakespeare: poetry and drama by women writers in Elizabethan England (ca 1558-1650)</b> <i>Patton, Elizabeth</i>	3.00	12	T 1:30-4:00PM					

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				Virginia Woolf's account of the thwarted career of Shakespeare's hypothetical sister, Judith (in <i>A Room of One's Own</i> ) frames our reading of plays and poetry by Shakespeare and contemporary women writers, including Isabella Whitney, Elizabeth Cary, Mary Sidney, Aemelia Lanyer, Mary Wroth, and others. Students will create fictional biographies of "Judith Shakespeare" and her literary accomplishments. Cross listed with English, Theater Arts, Writing Seminars, and WGS.								
AS.389.355	01	H	W	<b>Literary Culture in the Nineteenth-Century Library</b> <i>Dean, Gabrielle</i> What did people actually read in the nineteenth century? What can we learn from their books and magazines? In this class, we read nineteenth-century English and American literary works and examine nineteenth-century literary objects from the collection of the George Peabody Library, to better understand the cultural and material environments within which literary works circulated. Featured writers likely to include Edgar Allan Poe, Charles Dickens, Harriet Beecher Stowe, Emily Dickinson, Mark Twain, Stephen Crane. Several field trips to the Peabody Library throughout the semester.	3.00	15	T 2:00-4:30PM					

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## Film and Media Studies

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AS.061.141	01	H		<b>Introduction to Cinema, 1941-present</b>  <i>Bucknell, Lucy</i> Introduction to Cinema provides an overview of American and international cinema from the post World War II era to the present. Through lectures and discussion, weekly screenings, and intensive visual analysis of individual films, we will explore the aesthetic, cultural, political, and economic forces that have shaped the art and industry of film over the past 70 years. Regular quizzes, writing assignments, class participation required. Mandatory film screenings.	3.00	40	M 3:00-5:20PM; Th 7:30-10:00PM; S 7:00-10:30PM	No prior film experience necessary \$40 Lab Fee; Screenings required.	Z Major Film & Media Studies; Z Minor Film And Media Studies			
AS.061.149	01	H		<b>Movies We Love</b>  <i>DeLiberio, Linda; Mason, Laura</i> Designed for non-majors, this course introduces students to some of the world's great films. Through lectures and screenings scheduled at the Charles Theater or on Homewood campus, faculty from Film and Media Studies and other disciplines will present films they find uniquely significant and explore what makes them great. Lectures will take place in the state-of-the-art screening room at the new Film Center in Station North, a five-minute ride from Homewood on the JHU Shuttle.	3.00	39	T 5:00-7:20PM; M 7:30-10:00PM	\$40 lab fee.	Z Major Film & Media Studies; Z Minor Film And Media Studies			

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AS.061.150	01	H		<b>Introduction to Film Production: Rediscovering Early Cinema</b> <i>Mann, John</i> This course presents several basic elements of 16mm film production. These include the use of a light meter, an understanding of camera lenses and how they function, and some basic aesthetic concerns. These aesthetic issues primarily involve shot composition and lighting. You will also learn basic concepts of film editing. You will be assigned readings from classical film theory texts (primarily from Jean Epstein and Sergei Eisenstein). These readings will closely align with specific exercises for each class. This coalescence of the practical with the theoretical is a vital component of the class.	3.00	12	W 12:00-2:20PM	Lab fee \$125	Freshmen Only; Sophomores Only; Z Major Film & Media Studies			Y
AS.061.152	01	H		<b>Introduction to Digital Film</b> <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.	3.00	9	Th 1:30-3:50PM	\$100 lab fee.				Y
AS.061.219	01	H		<b>Special Topics: Animation Workshop</b> <i>Yasinsky, Karen</i> Students will produce several animations using hand-made techniques, including drawing animation, paper puppets and stop-motion. Screenings and readings will provide a historical and conceptual context to the exploration of animation as an experimental technique within both narrative and non-narrative works. Weekly film screenings.	3.00	8	W 12:00-2:20PM; Th 7:30-10:00PM	\$125 lab fee	Z Major Film & Media Studies; Z Minor Film And Media Studies			
AS.061.232	01	H		<b>Dreams, Psychosis, and Altered States in Cinema</b> <i>Roche, Jimmy</i>	3.00	10	W 3:00-5:20PM					Y





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				Using P. Adams Sitney's text: The Cinema of Poetry, this course will explore the relationship between poetry and the moving image. When experimental film began to define itself in the 1950s and 60s the terms cine-poem and film-poem were ubiquitous as identifying avant-garde cinema. Poetic structures in the moving image will be studied in relation to language, images and formation of meaning. Students will independently research a poet who greatly inspired and influenced a filmmaker/moving image artist and write on that filmmaker's work. One moving image project will be undertaken and completed during the semester as well. Weekly assignments will include screenings, reading, writing, and or video work.				\$125 Lab fee	Z Major Film & Media Studies; Z Minor Film And Media Studies			
AS.061.270	01	H	W	<b>Writing for the Screen</b>	3.00	9	W 1:30-4:00PM; M 7:30-10:00PM					
				<i>Bucknell, Lucy</i> An Introduction to dramatic writing for film. Weekly film screenings. Several short, written exercises in story, scene, and character design, and a final complete script for a short film. AS.061.148 Storytelling for Film and Fiction or Introduction to Fiction and Poetry strongly recommended.				\$40 Lab fee.	Z Major Film & Media Studies; Z Minor Film And Media Studies			

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AS.061.271	01	H	W	<b>'Inside Station North' TV/Webcast Show</b>  <i>Dolby, Thomas</i> During this one-semester course you will create a pilot episode for a TV show/webcast tentatively titled 'Inside Station North.' It will be a magazine type show focusing on the arts/music/performance community around Baltimore's vibrant Station North district. We will research comparable shows, design the image and graphic style, investigate alternative broadcast and distribution channels ranging from YouTube and iTunes to Public Television and cable. We will select exciting local artists and venues, and shoot video both on the Sound Stage at the Film Centre and out and about in the neighborhood. We will edit and post-produce the pilot and put it on the air with a view to producing a full series commencing Fall 2016.	3.00	8	F 11:00AM-1:20PM	Lab fee: \$100			AS.061.140 OR (AS.061.141 AND AS.061.152)	Y
AS.061.356	01	H		<b>Narrative Productions</b> <i>Porterfield, Matthew</i>	6.00	12	M 4:00-10:00PM					Y

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				<p>This course is designed to immerse students in the creative and practical challenges of narrative production. It is our hope that you will emerge with a greater understanding of the professional structure of a film crew, as well as with an understanding of the collaborative creativity necessary to make a narrative short. We will work hard, but if you are interested in video, film and filmmaking, we guarantee you will learn a great deal. In this course students will be divided into teams, each of which will produce a short narrative film based upon a script written by a fellow student. All films will be fully student produced. Students will fill all principal roles: scripting, casting, producing, directing, designing, shooting, sound recording, and editing. Throughout the course, instructors will expose students to relevant films and film professionals in order to illuminate the key creative roles necessary in the making of any film. Instructors will serve a guiding role in the production of student projects, offering technical information and advice. Students will be evaluated not only on the films they produce, but also on their ability to create and contribute to the collaborative art of filmmaking.</p>				<p>Taught at JHU/MICA Film Center. Minors accepted. Please email film@jhu.edu.</p>	<p>Z Major Film &amp; Media Studies</p>		<p>Prerequisite: AS.061.152 AND AS.061.202</p>	
AS.061.369	01	H		<p><b>The 1930s in Jazz, Film, and Poetry</b>  <i>Robbins, Hollis</i></p> <p>The 1930s in Jazz, Film, and Poetry will focus on three art forms, jazz, film, and poetry, both separately and in conversation with each other during a decade of political, economic, technological, and cultural upheaval. A decade after the invention of amplifiers and public address systems, advances in sound recording and synchronized sound revolutionized film and recording arts. Jazz musicians, filmmakers, and poets collaborated on innovative and radical projects, often funded by the New Deal Federal Writers Project. Team-taught by faculty in Film and Media Studies, the Department of Jazz (Peabody), and the Center for Africana Studies, this course will bring together students from Peabody and the Krieger School of Arts &amp; Sciences to engage with issues of art, culture, and politics during a turbulent decade.</p>	3.00	10	Th 4:00-6:20PM				<p>AS.061.140 OR AS.061.141</p>	

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AS.061.376	01	H	W	<b>Arts and Culture Journalism: Interactive Media, Online Publishing</b> <i>Ober, Cara</i> Students will participate in the ongoing creation of BmoreArt.com, an online arts and culture publication that serves the Baltimore community. In conjunction with visiting professionals, students will investigate the Baltimore cultural community and create different types of editorial content using interactive media including film, video, sound, and writing. Students will produce creative content utilizing their individual areas of expertise - such as visual art, art history, music, literary arts, film, and theater - while working together as a professional organization. A strong emphasis will be placed on the student's collaborative participation and creative experimentation. Students with differing backgrounds in media will approach this project from unique perspectives, which will be valued and cultivated. Students with previous experience in journalism are welcome. An introductory writing or film course is suggested as a prerequisite.	3.00	15	Th 10:00AM-12:20PM			Z Major Film & Media Studies; Z Minor Film And Media Studies; Z Major Writing Seminars; Z Minor Visual Arts		
AS.061.381	01	H		<b>Sound on Film</b> <i>Dolby, Thomas</i>	3.00	8	W 4:00-6:20PM; W 6:30-9:00PM					

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				<p>This 3-credit upper-level course, sponsored by the Film and Media Studies Program at JHU and the program in Recording Arts and Sciences at the Peabody Institute, will offer undergraduates and faculty/staff from both institutions an unprecedented opportunity to collaborate on all aspects of designing soundtracks for film. Utilizing in-progress works, student filmmakers from the Film and Media Studies program will work with Peabody students to create soundtracks, from the initial phases of composition and scoring to the final stages of recording and sound syncing. Students will work in small teams in a lab setting to create their soundtracks, exploring a variety of scenarios, including the implications of image-driven music vs music-driven images, and the various uses of acoustic and electronic sound. Lab work will be supplemented by guest lectures and faculty presentations on various aspects—practical, theoretical, and historical—of applying sound to film. Guest lecturers will include sound designers and engineers, composers, editors, historians of film sound, and filmmakers working in both live action and animated film. Weekly film screenings.</p>				\$40 lab fee.	Z Major Film & Media Studies; Z Minor Film And Media Studies				

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AS.061.413	01	H		<b>Lost &amp; Found Film</b> <i>Mann, John</i> This course explores various elements of film production and filmic expression through a somewhat nebulous field typically described as lost films. Lost films (or as they are sometimes called, "orphan" films) can be generally described as films that have, for a variety of reasons, fallen out of the public view. They frequently come from educational, scientific, medical, or industrial films from the 1950s and 1960s. Using these films as source materials, lost film filmmakers explore and expose cultural conventions, visual icons, and historical value materials. Each week, students are responsible for re-editing sources found on an internet archive site. The assignments follow thematic concerns related to film editing. Students complete a final project (4-8 minutes). All editing for the course is accomplished with non-linear software, generally Adobe Premiere or Final Cut.	3.00	6	F 12:00-2:20PM	\$125 lab fee.				Y
AS.061.441	01	H		<b>Sen Proj-Film Production</b> <i>Mann, John</i>	3.00		TBA	Instructor's permission required	In Person Registration Only			
AS.061.443	01	H		<b>Sen Proj-Digital Video Prod</b> <i>Mann, John</i> Perm. Req'd.	3.00		TBA	Instructor's permission required.	In Person Registration Only			
AS.061.443	02	H		<b>Sen Proj-Digital Video Prod</b> <i>Porterfield, Matthew</i>	3.00		TBA					
AS.213.361	01	H		<b>The Holocaust in Film and Literature</b> <i>Spinner, Samuel Jacob</i>	3.00	20	MW 12:00-1:15PM					

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## Film and Media Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				How has the Holocaust been represented in literature and film? Are there special challenges posed by genocide to the traditions of visual and literary representation? Where does the Holocaust fit in to the array of concerns that the visual arts and literature express? And where do art and literature fit in to the commemoration of communal tragedy and the working through of individual trauma entailed by thinking about and representing the Holocaust? These questions will guide our consideration of a range of texts — nonfiction, novels, poetry — in Yiddish, German, English, French and other languages (including works by Elie Wiesel, Primo Levi, and Isaac Bashevis Singer), as well as films from French documentaries to Hollywood blockbusters (including films by Alain Resnais, Claude Lanzmann, and Quentin Tarantino). All readings in English.								
AS.216.398	01	H		<b>Zionism: Literature, Film, Thought</b>	3.00	15	TTh 10:30-11:45AM					
				<i>Stahl, Neta</i> This course studies the relation between Israeli culture and Zionism. Based on a close reading of both literary and non-literary Zionist texts, we will explore the thematic, social and political aspects of the Zionist movement. The course focuses on primary sources and its main goal is to familiarize students with the history of Zionism and its influence on Israeli culture. In the last part of the semester we will investigate the different meanings of Post-Zionism through contemporary literary and non-literary texts as well as recent Israeli films. Students wishing to do additional work in Hebrew should enroll in section 2 where students will meet for an additional hour at a time TBD and will earn 4 credits for the course.							Students may receive credit for AS.216.398 or AS.300.398, but not both.	
AS.216.398	02	H		<b>Zionism: Literature, Film, Thought</b>	4.00	5	TTh 10:30-11:45AM					
				<i>Cohen, Zvi; Stahl, Neta</i>								
AS.300.353	01	H	W	<b>Present Mirth: Stages of Comedy</b> <i>Macksey, Richard A; Mehrgan, Omid</i>	3.00	12	Th 5:00-7:30PM					

Spring 2016

## Film and Media Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				A comparative survey of presentational comedies from Aristophanes to Beckett on stage and screen, with some attention to to the vexed question of theories of comedy [no laughing matter].				Please email Marva Philip at mphilip@jhu.edu for class location.				
MI.061.200	01			<b>Moving Image I</b>	3.00	2	M 9:00AM-1:00PM					Y
				<i>Staff</i> Through in-class workshops, students will learn each stage of the filmmaking process, from concept development to exhibition. Students will develop basic skills in digital video production and editing. Screenings and readings will demonstrate the diverse ways moving images are used in fine arts and the cinema. Assignments explore the various ways moving images are used for individual expression, entertainment and social & intellectual inquiry.								
MI.061.200	02			<b>Moving Image I</b>	3.00	2	T 4:00-8:00PM					Y
MI.061.200	03			<b>Moving Image I</b>	3.00	2	Th 4:00-8:00PM					Y
MI.061.230	01	H		<b>The Story</b>	3.00	2	Th 4:00-8:00PM					Y
				<i>Staff</i> Japanese director Akira Kurosawa noted, "with a good script, a good director can produce a masterpiece, but with a bad script, even a good director can't possibly make a good film." This course will focus on the art of storytelling, exploring the building blocks of what makes a strong story. Students will study examples in literature, television and cinema, animation, radio and art. Students will have a number of short assignments in these areas but will also work on a semester long story in a medium of their choosing. Recommended Course Background: AS.061.152.						Z Major Film & Media Studies; Z Minor Film And Media Studies		
MI.061.300	01	H		<b>Moving Image II</b>	3.00	2	Th 9:00AM-3:00PM					Y



Spring 2016

## Film and Media Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<i>Staff</i> Students learn professional high definition cameras and advanced production techniques while working both individually and in groups. Readings and screenings explore artistic uses of moving images and continues to develop a sophisticated understanding of the language of the cinema. Each student creates a final project that involves shooting with a crew. Recommended Course Background: AS.061.152.					Z Major Film & Media Studies; Z Minor Film And Media Studies			
MI.061.305	01	H		<b>Film Marketing and Distribution</b>	3.00	2	F 10:00AM-2:00PM					Y
				<i>Staff</i> Film Marketing and Distribution instructs students on what happens to a film after it is completed. In this course, students will devise marketing and distribution plans for one of their own films. Students will work with social media, plan film festival submissions, create a promotional trailer, write loglines, compose synopses, and put together a press kit. Students will be introduced to film budgeting for DIY, independent and Hollywood films. They will learn to create their own budgets for marketing and distribution expenses. Students will be introduced to the growing number of distribution platforms, including theatrical, broadcast, DVD/BluRay, and VOD. The semester will culminate in a public showcase of the students' promotional materials and marketing/distributions plans with guest filmmakers.					Z Major Film & Media Studies; Z Minor Film And Media Studies			
MI.061.317	01	H		<b>Documentary Production</b>	3.00	2	T 9:00AM-3:00PM					Y
				<i>Staff</i> Explores a wide variety of documentary styles and genres with an overview of the history of documentary film-making. Topics will include pre-production planning, shooting interviews and recording sound in the field. Students will produce several short projects. Recommended Course Background: AS.061.152.					Z Major Film & Media Studies; Z Minor Film And Media Studies			

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## Film and Media Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
MI.061.325	01	H		<b>Advanced Edit and Post Production</b>	3.00	3	W 10:00AM-2:00PM					Y
				<i>Staff</i> Film editor Walter Murch (The Godfather, Apocalypse Now) says that "editing is now something almost everyone can do, but to take it to a higher level requires the same dedication and persistence that any art form does." Through screenings and seminars students will study the art of editing in experimental, documentary and narrative genres while developing a vocabulary to discuss both the function and art of the cut. Additionally, this course will teach advanced editing and finishing techniques including the basics of high definition media formats, frame rates, color correction techniques and working with Photoshop and After Effects. The entire post production work flow will be covered from input to editing to output. Exercises will be part of the course and students are expected to work throughout the semester on one project. Students will learn and have the opportunity to work on AVID's Media Composer. Other edit platforms will be demonstrated including FCP X and Adobe Premiere. Recommended Course Background: AS.061.152 Film and Media Studies Majors and Minors Only					Z Major Film & Media Studies; Z Minor Film And Media Studies			
MI.061.374	01	H		<b>Advanced Cinematography Workshop</b>	3.00	2	M 9:00AM-3:00PM					Y
				<i>Staff</i> This course is an in-depth exploration of the most advanced HD camera technology available in the industry today. Students will be immersed in the highly technical levels of video camera set up and menu adjustment. Hands-on exercises will experiment with complex camera shooting situations. Assignments will include working with available light and in low light. There will be a collaborative project choreographing an extended shot where light and focal point changes. The goal of the course is to maximize the camera, light and environment to render a beautiful image.					Z Major Film & Media Studies; Z Minor Film And Media Studies			
MI.061.399	01	H		<b>Special Topics in Film: Sci-Fi Film and Art</b>	3.00	2	W 4:00-8:00PM					Y

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Film and Media Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
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*Staff*

An investigation into the phenomena of Science Fiction, through the illumination of its cinematic history and accordingly, explore the impact on moving image art and culture. Lectures, screenings, and readings will investigate various Sci-fi themes and their cultural significance. Students will create several short works or develop a longer more focused semester long project that responds to a selection of Sci-fi topics covered throughout the course. Film and Media Studies Majors and Minors Only.

Z Major Film & Media Studies;  
 Z Minor Film And Media Studies



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## Foreign Literature and Culture

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.211.380	02	H		<b>Modern Latin American Culture</b>	3.00	17	TTh 10:30-11:45AM					
AS.211.402	01	H	W	<b>La France Contemporaine II</b>  <i>Staff; Wuensch, April</i> 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. Recommended Course Background: AS.210.301-AS.210.302 or AS.210.301 or permission of instructor.	3.00	15	TTh 10:30-11:45AM	Permission required: Contact Professor Cook-Gailloud: kacg@mac.com)				
AS.211.402	02	H	W	<b>La France Contemporaine II</b>	3.00	15	TTh 1:30-2:45PM					
AS.212.334	01	H	W	<b>Introduction à la littérature française II</b>  <i>Schilling, Derek</i> Readings and discussion of texts of various genres from the Middle Ages to the 20th century. The two semesters (212.333 and 212.334) 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. Introduction à la littérature française II covers the time period from the Revolution to the present.	3.00	15	TTh 10:30-11:45AM				Prerequisite: AS.210.301 OR AS.210.302 or at least one semester of AS.210.301 or AS.210.302 with a grade of A and written permission of the instructor.	
AS.212.429	01	H		<b>Thesis Prep</b> <i>Staff</i>	1.00	15	TBA					

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## Foreign Literature and Culture

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				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. 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.				Prerequisites: 212.333-334 and either prior enrollment or concurrent enrollment in AS.210.417 Eloque			Prerequisite or Corequisite: AS.210.417; Prerequisite: AS.212.333 OR AS.212.334	
AS.212.430	01	H	W	<b>Senior Seminar</b> <i>Anderson, Wilda; Staff</i>	3.00	16	T 1:30-4:00PM					
				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. Recommended Course Background: AS.212.429.				French majors only AS.212.333 and AS.212.334 or permission of the instructor	Seniors Only		AS.212.429	
AS.213.371	01	H		<b>Kafka and the Kafkaesque</b> <i>Krauss, Andrea B</i>	3.00	15	MW 1:30-2:45PM					

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## Foreign Literature and Culture

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<p>Taught in German. Franz Kafka is regarded as one of the most influential writers of the 20th century. To this day, his lucid and subtle prose continues to intrigue literary critics, writers of fiction, and readers with observations that create a fictive world at once strange and familiar, hopelessly tragic and hilariously comical. The related term "kafkaesque" refers to the unique character of a literary universe that is perceived as both eerie and resistant to any classification. In this course, we will analyze texts by Franz Kafka from a variety of perspectives: as investigations into modern institutions and bureaucracy, law, punishment and family structures. Special emphasis will be given to the exploration of Kafka's poetic practice, i.e. to the material, rhetorical and performative quality of his writing. In addition to reading a selection of Kafka's prose and analyzing several film adaptations, we will also discuss some influential commentaries on his work and discuss Kafka's impact on the conceptualization of modernity. Students will gain an in-depth understanding of Kafka's oeuvre while developing skills in critical analysis and literary close reading.</p>								
AS.215.231	01	H		<b>Introduction to Literature in Spanish</b>	3.00	17	MW 12:00-1:15PM					
				<p><i>Gonzalez, Eduardo; Staff</i></p> <p>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.</p>								
AS.215.231	02	H		<b>Introduction to Literature in Spanish</b>	3.00	17	TTh 3:00-4:15PM					
AS.215.336	01	H		<b>Don Quijote</b> <i>Sieber, Harry</i>	3.00	12	T 4:00-6:30PM					

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## Foreign Literature and Culture

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				A close reading and discussion primarily in Spanish of Cervantes' masterpiece, with concentration on its major themes and contributions to the formation of the modern novel. We will use A. Murillo's edition of the novel, Editorial Castalia.							Prerequisite: AS.210.311 AND AS.210.312	
AS.216.300	01	H		<b>Contemporary Israeli Poetry</b> <i>Stahl, Neta</i> This course examines the works of major Israeli poets such as Yehuda Amichai, Nathan Zach, Dalia Rabikovitch, Erez Biton, Roni Somek, Dan Pagis, Yona Wollach, Yair Horwitz, Maya Bejerano, and Yitzhak Laor. Against the background of the poetry of these famous poets we will study recent developments and trends in Israeli poetry, including less known figures such as Mois Benarroch, Shva Salhoov and Almog Behar. Through close reading of the poems, the course will trace the unique style and aesthetic of each poet, and will aim at presenting a wide picture of contemporary Hebrew poetry.	3.00	15	T 1:30-4:00PM				Students may receive credit for AS.216.300 or AS.300.413, but not both.	
AS.216.398	01	H		<b>Zionism: Literature, Film, Thought</b> <i>Stahl, Neta</i> This course studies the relation between Israeli culture and Zionism. Based on a close reading of both literary and non-literary Zionist texts, we will explore the thematic, social and political aspects of the Zionist movement. The course focuses on primary sources and its main goal is to familiarize students with the history of Zionism and its influence on Israeli culture. In the last part of the semester we will investigate the different meanings of Post-Zionism through contemporary literary and non-literary texts as well as recent Israeli films. Students wishing to do additional work in Hebrew should enroll in section 2 where students will meet for an additional hour at a time TBD and will earn 4 credits for the course.	3.00	15	TTh 10:30-11:45AM				Students may receive credit for AS.216.398 or AS.300.398, but not both.	



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## Foreign Literature and Culture

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.216.398	02	H		<b>Zionism: Literature, Film, Thought</b> <i>Cohen, Zvi; Stahl, Neta</i>	4.00	5	TTh 10:30- 11:45AM					

Spring 2016

## Freshman Seminars

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.020.122	01	N		<b>Cancer and Aging</b> <i>Mefford, Melissa</i> Cancer and aging are intimately intertwined with one another. For instance, older age is the number one risk factor for developing cancer, and cancer is predicted to be the number one killer in the U.S. in the next 15 years, surpassing heart disease. Interestingly, both cancer and aging result from an accumulation of genetic mutations over time with very different outcomes. In cancer, genetic mutations cause unrestricted and aberrant division of cells, while in aging mutations cause cells to cease cell division. This discussion based course will provide an overview of the hallmarks of cancer and aging, including recent research, emerging therapeutics, and bioethical considerations. Freshmen only.	1.00	18	Th 3:00-3:50PM		Freshmen Only			
AS.100.205	01	HS	W	<b>Freshman Seminar: Health, Healing, and Medicine in Africa</b> <i>Larson, Pier M</i> A freshman seminar introducing students to the history of health, healing, and forms of medical practice in Africa over the last two centuries.	3.00	16	W 2:30-4:50PM		Freshmen Only			
AS.100.210	01	HS		<b>Freshman Seminar: Real Pirates of the Caribbean</b> <i>Smoak, Katherine L</i> This freshman seminar explores the rise of economic crimes, including piracy, smuggling, and counterfeiting, in the 17th- and 18th-century British North America and Caribbean, and their portrayal in popular culture. Freshmen Only.	3.00	15	TTh 10:30-11:45AM		Freshmen Only			
AS.100.218	01	HS	W	<b>Freshman Seminar: Russian History from Revolution to Cold War</b> <i>Brooks, Jeffrey P</i> Students will explore Russian politics and culture from 1905 to 1953.	3.00	18	T 1:30-3:50PM		Freshmen Only			
AS.130.108	01	H	W	<b>Freshman Seminar: Demons &amp; Doctors: Magic and Medicine in the Ancient Near East</b> <i>Guinn-Villareal, Erin Leigh</i>	3.00	15	TTh 3:00-4:15PM					

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## Freshman Seminars

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				This course will provide an introduction to the magical and medical arts of ancient Mesopotamia and Syria-Palestine by engaging with ritual texts dealing with disease, exorcisms, sorcery, and harmful ghosts.					Freshmen Only			
AS.140.115	01	HS	W	<b>Freshman Seminar: Artificial Humans</b> <i>Frumer, Yulia</i> Looking at the history of attempts to augment or construct human beings, the course will explore the role of technology in molding human existence and shaping the definition of humanity.	3.00	14	T 1:30-3:50PM		Freshmen Only			
AS.140.154	01	HS	W	<b>Picture This: A Photographic History of Johns Hopkins University</b> <i>Leslie, Stuart W</i> Every picture tells a story, if you know how to read it. This freshman seminar will explore the history of Hopkins through images, creating interactive timelines of important themes in the university's history.	3.00	18	MW 3:00-4:15PM		Freshmen Only			
AS.200.159	01	S		<b>Freshmen Seminar: Evolutionary Psychology</b> <i>Egeth, Howard E</i> In this course we discuss evolutionary psychology, which is the idea that the mind can be understood as an adaptation to our ancestral environment by means of natural selection. Freshmen only.	1.00	13	T 2:00-2:50PM		Freshmen Only			
AS.270.110	01	N		<b>Freshman Seminar: Sustainable + Non-Sustainable Resources</b> <i>Sverjensky, Dimitri</i> An introduction to the important resources involved in the origin and production of oil, natural gas, coal, cement, metals and geothermal fluids.	1.00	12	M 3:00-4:00PM		Freshmen Only			
AS.300.133	01	H	W	<b>Freshmen Seminar: Women of Epic Fame in Literature and Drama, 800 BCE-1650 CE</b> <i>Patton, Elizabeth</i>	3.00	12	TTh 10:30-11:45AM					

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Freshman Seminars

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				From Homer's Odyssey to Shakespeare's Antony and Cleopatra, powerful women who achieve their ends by working from within the system are often overlooked or not fully explored. Our readings and discussions will foreground these women of fiction, while we also consider the social conditions of their living contemporaries. Readings will include: Homer's Odyssey (Penelope); Virgil's Aeneid (Dido); Dante's Inferno (Beatrice); Milton's Paradise Lost (Eve), and several accounts of Cleopatra in plays by Shakespeare and his contemporary women writers. Cross listed with Theater Arts, Writing Seminars, and WGS.					Freshmen Only			
AS.389.105	01	H	W	<b>Freshman Seminar: Art in the Museum</b> <i>Kingsley, Jennifer P</i> Go behind the scenes of local art museums to explore fundamental concepts and social issues particular to the collection and display of art in the past and today.	3.00	15	Th 1:30-3:50PM	Class usually meets 1:30-3:50 except for days with field trips.	Freshmen Only			

Spring 2016

## German &amp; Romance Languages &amp; Literatures

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.010.204	01	H		<b>Italian Art in the Middle Ages</b> <i>Zchomelidse, Nino</i> This course explores key monuments of medieval art and architecture in Italy from c. 400 until 1350. We will concentrate on historical, functional, and aesthetical aspects that lead to the creation of single monuments and art works. Emphasis is given to the analysis of "sacred space" by means of architecture, painted, and sculptural decoration, as well as ritual performances. Another focus is laid on the emergence on the political dimension of art for the creation of civic identity as well as in the context of the late medieval courts. We raise questions about the importance of materiality and science for the creation of medieval art works.	3.00	25	MW 1:30-2:45PM					
AS.010.326	01	H		<b>Monsters, Madmen, and Matadors: Goya between Truth and Fantasy</b> <i>Letvin, Alexandra Owen</i> With over 1,800 works attributed to him, Francisco de Goya (1746-1828) was constantly inventing, experimenting, and pushing the limits of the representable. This course will begin by examining Goya's printed oeuvre as one possible itinerary for studying his life and work. The second half of the course will consider alternative narratives for Goya's career based on genre and theme. Topics will include portraiture, madness, religious painting, and the discovery of Goya by later generations of artists, authors, and filmmakers.  The course includes several visits to the print room at the Baltimore Museum of Art. There will be a final paper.	3.00	12	TTh 3:00-4:15PM					
AS.145.330	01	HS		<b>Insomnia in Modern Literature, Philosophy, and Film</b> <i>Krauss, Andrea B</i>	3.00	15	TTh 1:30-2:45PM					Y



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## German &amp; Romance Languages &amp; Literatures

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.210.102	01			<b>French Elements II</b>  <i>Guillemard, Claude H; Staff</i> 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 basic skills of grammar structure, phonetics, reading, and writing. May not be taken Satisfactory/Unsatisfactory. Recommended course background: AS.210.101 or AS.210.103.	4.00	17	MWF 9:00-9:50AM; T 4:30-5:45PM					
AS.210.102	02			<b>French Elements II</b>	4.00	17	MWF 10:00-10:50AM; T 4:30-5:45PM					
AS.210.102	03			<b>French Elements II</b>	4.00	17	MWF 11:00-11:50AM; T 4:30-5:45PM					
AS.210.102	04			<b>French Elements II</b>	4.00	17	T 4:30-5:45PM; MWF 11:00-11:50AM					
AS.210.102	05			<b>French Elements II</b>	4.00	17	T 4:30-5:45PM; MWTh 4:30-5:20PM					
AS.210.104	01			<b>Learner Managed French Elements II</b> <i>Anderson, Bruce</i> Continuation of the refresher course AS.210.103, offered for three credits and letter grade. Recommended for self-motivated students who have some knowledge of French and wish to continue their review of the language intensively. Major online component supplements in-class instruction.	3.00	17	TTh 3:00-4:15PM				AS.210.101 OR AS.210.103 or appropriate test score	





Spring 2016

## German &amp; Romance Languages &amp; Literatures

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<p>This introductory Spanish language course is a continuation of the content covered in Spanish Elements I. On completion of this course, the students will have further developed the communication and grammatical skills necessary for speaking, writing, listening and reading in Spanish. Students will demonstrate these skills through their performance in class, by completing several online assignments, and by taking part in three group presentations in addition to two comprehensive exams which focus on the following thematic topics: Food, Sports, Shopping, Travel, and Health. Students will also be introduced to the culture, history and geography of various Spanish and Latin American countries. The content covered in Spanish Elements II prepares the students for Intermediate Spanish.</p> <p>May not be taken satisfactory/unsatisfactory. No new enrollments permitted after 4th class session</p> <p>Prerequisite: AS.210.111 or appropriate webcape score.</p> <p>.</p>				May not be taken satisfactory/unsatisfactory. No new enrollments permitted after 4th class session			Prerequisite: AS.210.111 or appropriate webcape score.	
AS.210.112	02			<b>Spanish Elements II</b>	4.00	17	MWF 10:00-10:50AM					
AS.210.112	03			<b>Spanish Elements II</b>	4.00	17	MWF 10:00-10:50AM					
AS.210.112	04			<b>Spanish Elements II</b>	4.00	17	MWF 11:00-11:50AM					
AS.210.112	05			<b>Spanish Elements II</b>	4.00	17	MWF 11:00-11:50AM					
AS.210.112	06			<b>Spanish Elements II</b>	4.00	17	MWF 12:00-12:50PM					

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AS.210.152	01			<b>Italian Elements II</b>  <i>Staff; Zannirato, Alessandro</i> 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).	4.00	17	MWF 10:00-10:50AM	May not be taken satisfactory/unsatisfactory			Prerequisite: AS.210.151 or Placement Exam Part 1.	
AS.210.152	02			<b>Italian Elements II</b>	4.00	17	MWF 11:00-11:50AM					
AS.210.152	03			<b>Italian Elements II</b>	4.00	17	MWF 12:00-12:50PM					
AS.210.162	01			<b>German Elements II</b>  <i>Mifflin, Deborah McGee; Staff</i> Continuation to the introduction to the German language and a development of reading, speaking, writing & listening through the use of basic texts and communicative activities. The culture of the German-language countries is also incorporated into the curriculum. May not be taken on a Satisfactory/Unsatisfactory basis. Choose your section based on MWF schedule. Tuesday hour is mandatory but flexible and conflicts with Tuesday hour can be resolved after the start of the semester.	4.00	17	MWF 10:00-10:50AM; T 9:00-9:50AM	Prereq: 210.161 or appropriate score on placement exam			AS.210.161 or appropriate score on placement exam.	
AS.210.162	02			<b>German Elements II</b>	4.00	17	MWF 11:00-11:50AM; T 10:30-11:20AM					

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AS.210.162	03			<b>German Elements II</b>	4.00	17	MWF 12:00-12:50PM; T 12:00-12:50PM					
AS.210.164	01	H		<b>Elementary Yiddish II</b> <i>Caplan, Beatrice</i> Year-long course that 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. Recommended Course Background: AS.210.163 or instructor permission.	3.00	12	TTh 9:00-10:15AM					
AS.210.172	01	H		<b>Italian Elements II for Advanced Spanish Speakers</b> <i>Zannirato, Alessandro</i> Course draws on the many similarities between Spanish and Italian to help students develop basic listening, reading, writing, speaking, and interactional skills in Italian in an accelerated fashion. The content of the course is highly communicative, and students are constantly presented with real-life, task-based activities. Course is taught in Spanish and Italian. Students successfully completing the course with a grade of A- or higher will be allowed to place into Advanced Italian I (AS210.351)	4.00	17	MW 12:00-1:15PM				AS.210.171 with a grade of A- or higher.	Y
AS.210.177	01			<b>Portuguese Elements</b> <i>De Azeredo Cerqueira, Flavia Christina</i>	4.00	17	WF 12:00-1:15PM					

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				<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 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. Students wishing to retain credits for Portuguese Elements I must complete Portuguese Elements II with a passing grade.</p>								
AS.210.178	01			<b>Portuguese Elements II</b>	4.00	20	MWF 11:00-11:50AM					
				<p><i>De Azeredo Cerqueira, Flavia Christina</i> This course expands students knowledge of the basic language skills: reading, writing, listening, speaking. It uses a multifaceted approach to immerse students in the cultures of Brazil, Portugal, and Portuguese-speaking Africa. The focus of the course is on oral communication with, however, extensive training in grammar. The course is conducted entirely in Portuguese. Lab work required. Students must complete both semesters with passing grades to receive credit.</p>								
				<p>Cannot be taken Satisfactory/Unsatisfactory.</p>								
				<p>Prerequisite: AS.210.177 or equivalent score on placement test.</p>								
AS.210.202	01	H		<b>Intermediate French II</b>	3.00	17	MWF 9:00-9:50AM					
				<p><i>Roos, Suzanne; Staff</i> Focus on oral communication; develops skills in oral and written expression, listening comprehension, and reading, with extensive study of films and readings from French-speaking countries. Online component via Blackboard. Continuation of AS.210.201. Recommended course background: AS.210.201 or AS.210.203.</p>								

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AS.210.202	02	H		<b>Intermediate French II</b>	3.00	17	MWF 10:00-10:50AM						
AS.210.202	03	H		<b>Intermediate French II</b>	3.00	17	MWF 11:00-11:50AM						
AS.210.202	04	H		<b>Intermediate French II</b>	3.00	17	MWF 11:00-11:50AM						
AS.210.202	05	H		<b>Intermediate French II</b>	3.00	17	MWF 12:00-12:50PM						
AS.210.202	06	H		<b>Intermediate French II</b>	3.00	17	MWF 12:00-12:50PM						
AS.210.211	01	H		<b>Intermediate Spanish I</b>	3.00	17	MWF 9:00-9:50AM						
				<i>Staff; Weingarten, Barry E</i>									
				Intermediate Spanish I is a comprehensive study of Spanish designed for students who have attained an advanced elementary level in the language. The course is organized around a thematic approach to topics relevant to contemporary Hispanic culture. Students will practice the four language skills in the classroom through guided grammatical and creative conversational activities and through the completion of three comprehensive exams. Outside of class, students will complete extensive online assignments and write three major compositions (as part of the three exams). In addition, students will broaden their knowledge of Hispanic culture by viewing a Spanish-language film and by reading several literary selections. Successful completion of Intermediate Spanish I will prepare students for the next level of Spanish (Intermediate Spanish II).				May not be taken satisfactory/unsatisfactory. No new enrollments permitted after 4th class session.				Prerequisite: AS.210.112 or appropriate placement exam score.	

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AS.210.211	02	H		<b>Intermediate Spanish I</b>	3.00	17	MWF 10:00-10:50AM					
AS.210.211	03	H		<b>Intermediate Spanish I</b>	3.00	17	MWF 11:00-11:50AM					
AS.210.211	04	H		<b>Intermediate Spanish I</b>	3.00	17	MWF 11:00-11:50AM					
AS.210.211	05	H		<b>Intermediate Spanish I</b>	3.00	10	MWF 12:00-12:50PM					
AS.210.212	01	H		<b>Intermediate Spanish II</b>	3.00	17	MWF 9:00-9:50AM					
				<p><i>Staff; Weingarten, Barry E</i></p> <p>Intermediate Spanish II is a comprehensive study of Spanish designed for students who have attained a mid-intermediate level in the language or who have completed Spanish 210 and 211. The course is organized around a thematic approach to topics relevant to contemporary Hispanic culture. Students will practice the four language skills in the classroom through guided grammatical and creative conversational activities and through the completion of three comprehensive exams. Outside of class, students will complete extensive online assignments and write three major compositions (as part of the three exams). In addition, students will broaden their knowledge of Hispanic culture by viewing a Spanish-language film and by reading several literary selections. Successful completion of Intermediate Spanish II will prepare students for the next level of Spanish (Advanced Spanish I).</p>			<p>May not be taken satisfactory/unsatisfactory. No new enrollments permitted after 4th class session.</p>			<p>Prerequisite: AS.210.211 or appropriate webcap score.</p>		
AS.210.212	02	H		<b>Intermediate Spanish II</b>	3.00	17	MWF 10:00-10:50AM					

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AS.210.212	03	H		<b>Intermediate Spanish II</b>	3.00	17	MWF 11:00-11:50AM					
AS.210.212	04	H		<b>Intermediate Spanish II</b>	3.00	17	MWF 11:00-11:50AM					
AS.210.212	05	H		<b>Intermediate Spanish II</b>	3.00	17	MWF 12:00-12:50PM					
AS.210.252	01	H		<b>Intermediate Italian II</b>  <i>Staff; Zannirato, Alessandro</i> Taught in Italian. Course provides further development of students' language skills through intensive listening, speaking, reading, writing and interactional activities on topics of increasing complexity. Course adopts a continuous assessment system (no mid-term and no final).	3.00	17	MWF 10:00-10:50AM	May not be taken Satisfactory/Unsatisfactory.			Prerequisite: AS.210.251 or appropriate placement exam scores (Parts I & II).	
AS.210.252	02	H		<b>Intermediate Italian II</b>	3.00	17	MWF 11:00-11:50AM					
AS.210.252	03	H		<b>Intermediate Italian II</b>	3.00	17	MWF 12:00-12:50PM					

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AS.210.262	01	H		<b>Intermediate German II</b> <i>Staff; Wheeler, Heidi L</i> Taught in German. This course is designed to continue the four skills (reading, writing, speaking and listening) approach to learning German. Readings and discussions are topically based and include fairy tales, poems, art and film, as well as readings on contemporary themes such as Germany's green movement. Students will also review and deepen their understanding of the grammatical concepts of German.	3.00	17	MW 9:00-9:50AM	Prereq: 210.261 or placement exam			Prerequisite: AS.210.261 or placement exam.	
AS.210.262	02	H		<b>Intermediate German II</b>	3.00	17	MWF 10:00-10:50AM					
AS.210.262	03	H		<b>Intermediate German II</b>	3.00	17	MWF 11:00-11:50AM					
AS.210.262	04	H		<b>Intermediate German II</b>	3.00	17	MW 12:00-12:50PM					
AS.210.278	01	H		<b>Intermed/Adv Portuguese</b> <i>De Azeredo Cerqueira, Flavia Christina</i> This course is conducted entirely in Portuguese. Emphasis is placed 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. Lab work required.	3.00	20	MWF 10:00-10:50AM	May not be taken Satisfactory/Unsatisfactory.			Prerequisite: AS.210.177 AND AS.210.178 or placement test.	
AS.210.288	01	H		<b>Portuguese: Conversation through Film &amp; Music</b> <i>De Azeredo Cerqueira, Flavia Christina</i>	3.00	12	WF 1:30-2:45PM					



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				<p>This course is designed for highly motivated undergraduate and graduate students who want to SPEAK Portuguese. Conversation sessions provide intensive work on communication skills through discussion on issues raised in films, news media &amp; music.</p> <p>Grammar will be reviewed as needed outside of class with tutors or TA, freeing class time for more communicative activities. May not be taken on a Satisfactory / Unsatisfactory basis.</p> <p>Recommended Course Background: one semester of Portuguese (AS.210.177), or Placement test.</p>								
AS.210.302	01	H	W	<b>Advanced Writing and Speaking in French II</b>	3.00	15	MWF 9:00-9:50AM					
				<p><i>Anderson, Bruce; Staff</i></p> <p>Designed to further reveal the most fascinating and fearsome features of both written and spoken French, this unconventional course takes into account the unique profile of Johns Hopkins' undergraduates by addressing their ability to generate powerful and new ideas. To that effect, this course proposes to involve students directly in the process of learning and assessing by raising participatory questions such as "What is the best way to learn this grammar point? What type of test will actually allow me to learn the material so I don't forget it the next day? How can I move towards fluency without feeling discouraged?" In full knowledge of our students' ability to analyze and explore these questions, but also of the exceptionally high challenges they face today, this experimental, self-reflective course endeavors to get rid of needless (and unproductive) stress, and invite them to take pleasure in discovering how to better learn and master the French language.</p>								
AS.210.302	02	H	W	<b>Advanced Writing and Speaking in French II</b>	3.00	15	MWF 10:00-10:50AM					

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AS.210.302	03	H	W	<b>Advanced Writing and Speaking in French II</b>	3.00	15	MWF 11:00-11:50AM					
AS.210.302	04	H	W	<b>Advanced Writing and Speaking in French II</b>	3.00	15	MWF 11:00-11:50AM					
AS.210.302	05	H	W	<b>Advanced Writing and Speaking in French II</b>	3.00	15	MWF 12:00-12:50PM					
AS.210.302	06	H	W	<b>Advanced Writing and Speaking in French II</b> <i>Staff; Wuensch, April</i>	3.00	15	TTh 10:30-11:45AM					
AS.210.302	07	H	W	<b>Advanced Writing and Speaking in French II</b> <i>Anderson, Bruce; Staff</i>	3.00	15	TTh 12:00-1:15PM					
AS.210.311	01	H		<b>Advanced Spanish I</b> <i>Hubbard, Aranzazu; Staff</i> This course is a comprehensive study of the Spanish language focused on the continuing development of students' communicative abilities and their knowledge of Hispanic cultures. Students will expand their use of basic structures of Spanish with a special emphasis on more difficult grammatical and vocabulary aspects, and further improve both their oral and written skills. Students will sharpen their critical thinking skills and listening abilities utilizing movies and written texts. This course combines an extensive use of an online component with class participation and three exams. Upon successful completion of this course, students will have acquired extended complex language tools that facilitate proficiency in Spanish and its use in various professional contexts.	3.00	15	MWF 9:00-9:50AM	May not be taken satisfactory/unsatisfactory. No new enrollments permitted after 4th class session.			Prerequisites: AS.210.212 or AS.210.213 or appropriate placement exam score.	

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AS.210.311	02	H		<b>Advanced Spanish I</b>	3.00	15	MWF 10:00-10:50AM					
AS.210.311	03	H		<b>Advanced Spanish I</b>	3.00	15	MWF 11:00-11:50AM					
AS.210.311	04	H		<b>Advanced Spanish I</b>	3.00	15	MWF 11:00-11:50AM					
AS.210.311	05	H		<b>Advanced Spanish I</b>	3.00	15	MWF 12:00-12:50PM					
AS.210.312	01	H		<b>Advanced Spanish II</b> <i>Hubbard, Aranzazu; Staff</i> This course is thorough review of the Spanish language focused on the development of students' communicative abilities and their knowledge of Hispanic cultures. Students will both expand their knowledge of the basic structures of Spanish, with special emphasis on more difficult grammatical and vocabulary aspects, and further improve on oral and written skills. Students will increase their critical thinking skills and listening abilities utilizing movies and written texts. This course combines an extensive use of an online component, class participation and three exams. Upon successful completion of this course, students will have acquired more complex language tools to become proficient in Spanish and its use in various professional contexts.	3.00	15	MWF 10:00-10:50AM	May not be taken satisfactory/unsatisfactory. No new enrollments permitted after 4th class session.			Prerequisites: AS.210.311 (Advanced Spanish) or appropriate placement exam score.	
AS.210.312	02	H		<b>Advanced Spanish II</b>	3.00	15	MWF 11:00-11:50AM					



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				Spanish for international relations is an advanced examination of grammar and an analysis of international relations' topics in Spanish. By completion of this course the student will have developed the ability to read, critically discuss and demonstrate mastery of political and socio-economic issues in Spanish-speaking environments. Potential topics include a survey of the professions in international relations, NGOs in Latin America, intellectual property, cultural diplomacy, remesas, regional coalitions and treaties, and the environment. Class presentations and final projects will allow students to apply, synthesize, and reflect on what has been learned in the class by participating in a global simulation that will include a written exercise individualized to their professional interests. May not be taken satisfactory/unsatisfactory. Not open to native speakers of Spanish. No new enrollments permitted after the 4th class session				May not be taken satisfactory/unsatisfactory. Not open to native speakers of Spanish. No new enrollm				Prerequisite: AS.210.311 or appropriate placement exam score.	
AS.210.316	01	H		<b>Conversational Spanish</b>  <i>Ramos, Maria Del Rosario; Staff</i> Conversational Spanish surveys high-interest themes, discusses short films by contemporary Hispanic filmmakers and offers a thorough review of grammar. The student will be able to participate in conversations on topics such as personality traits, social media, political power, art and lifestyles on completion of this course. Conversational skills mastered during the course apply to all careers interconnected by Spanish.	3.00	15	TTh 10:30-11:45AM	May not be taken satisfactory/unsatisfactory. Not open to native speakers of Spanish. No new enrollm			Prerequisites: AS.210.311 (Advanced Spanish I) or appropriate placement exam score.		
AS.210.352	01	H	W	<b>Advanced Italian II</b>  <i>Staff; Zannirato, Alessandro</i> 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).	3.00	15	MWF 11:00-11:50AM	May not be taken Satisfactory/Unsatisfactory.			Prerequisite: AS.210.351 or appropriate placement exam scores (Parts I, II and III).		

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AS.210.362	01	H	W	<b>Advanced German II: Contemporary Issues in the German Speaking World</b> <i>Mifflin, Deborah McGee; Staff</i> Taught in German. Topically, this course focuses on contemporary issues such as national identity, multiculturalism and the lingering social consequences of major 20th century historical events. Readings include literary and journalistic texts, as well as radio broadcasts, internet sites, music and film. Students read a full-length novel. Emphasis is placed on improving mastery of German grammar, development of self-editing skills and practice in spoken German for academic use. Introduction/Review of advanced grammar.	3.00	17	MWF 10:00-10:50AM	May not be taken Satisfactory/Unsatisfactory.			AS.210.361 or equivalent score on placement test.	
AS.210.362	02	H	W	<b>Advanced German II: Contemporary Issues in the German Speaking World</b>	3.00	17	MWF 11:00-11:50AM					
AS.210.363	01	H		<b>Business German</b> <i>Staff; Wheeler, Heidi L</i> Taught in German. Course is designed to familiarize students with the vocabulary and standards for doing business in Germany. Taking a cultural approach, students read texts and engage in discussion that elucidate the works of business, commerce & industry in Germany, the world's third largest economy. Emphasis is placed on vocabulary expansion and writing as it relates to business.	3.00	17	TTh 10:30-11:45AM				Prerequisite: AS.210.262	

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AS.210.373	01	H		<b>Guided Readings in Yiddish</b> <i>Caplan, Beatrice</i> This course will allow students with advanced Yiddish language skills to design their own reading list, in consultation with the instructor, in order to deepen their understanding of an area of Yiddish culture of special interest while at the same time continuing to improve their language skills. Texts may include literary works, scholarship, the press, and archival materials. All discussion and written responses will be in Yiddish.	3.00	12	TTh 1:30-2:45PM					Y
AS.210.392	01	H	W	<b>Advanced Portuguese: Language and Literature II</b> <i>De Azeredo Cerqueira, Flavia Christina</i> This course focuses on reading, writing, and oral expression. Under the supervision of the instructor, students will read several works by major Brazilian, Portuguese, and/or Afro-Portuguese writers, followed by intensive writing and oral discussion on the topics covered. Grammar will be reviewed as necessary. The course is conducted entirely in Portuguese. No satisfactory/unsatisfactory.	3.00	15	MWF 9:00-9:50AM	May not be taken Satisfactory/Unsatisfactory.			Prerequisite: AS.210.391 or equivalent score on placement test.	
AS.210.411	01	H	W	<b>Translation for the Professions</b> <i>Ramos, Maria Del Rosario; Staff</i>	3.00	12	TTh 12:00-1:15PM					

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				Spanish Translation for the Professions surveys the field of contemporary translation theory and provides practice of translation from English to Spanish. Translation exercises may include comparing and contrasting texts of literature, medicine, health, law, technology, politics, and journalism. Students will identify and differentiate terminology specific to these various fields and will focus on practicing correct uses of the grammatical structures relevant to the translation of both English and Spanish. In the course's final projects students will apply, synthesize, and reflect on what has been learned in the class by completing a translation exercise individualized to their professional interests. Strategies of communication mastered in this course will help students of Spanish throughout their careers, in that achievement of the course objectives will help students discern, translate, and evaluate the usefulness of translations in different professional settings.				May not be taken satisfactory/unsatisfactory. No new enrollments permitted after 4th class session.			Prereqs: AS.210.313 OR AS.210.314 OR AS.210.315 -	
AS.210.412	01	H	W	<b>Spanish Language Practicum-Community Based Learning</b> <i>Sanchez, Loreto</i>	3.00	12	T 1:30-4:00PM				Prerequisite: AS.210.411	
				This fourth-year course involves a specially designed project related to the student's minor concentration. On completion of this course, the student will be able to use the Spanish language in real world contexts. The student-designed project may be related to each student's current employment context or developed in agencies or organizations that complement student's research and experimental background while contributing to the improvement of his/her language proficiency.				May not be taken satisfactory/unsatisfactory. No new enrollments permitted after 4th class session.				
AS.210.413	01	H	W	<b>Curso de Perfeccionamiento</b> <i>Sanchez, Loreto</i>	3.00	12	TTh 12:00-1:15PM					





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				<p>¡Salsa! The Afro-Antillean song surveys Caribbean music in an international Spanish-speaking context. As a language course, it reviews grammar and instils vocabulary acquisition through the close analysis of the biggest hits of salsa from the past one hundred years.</p> <p>On completion of this course the student will have developed the ability to read and critically discuss music and its history in the Spanish-speaking Caribbean and will have examined cultural roots, market dominance, and media crossovers in the musical universe of the Spanish-speaking archipelago of the Antilles. In completing the course's final project students will apply, synthesize, and reflect on what has been covered in the class by creating a professional dossier individualized to their own personal musical interests.</p> <p>Concepts learned in this course will be directly applicable to careers linked to intercultural and international relations while also apply to multiple careers in media, music industry and dance.</p> <p>There is no final exam. May not be taken satisfactory/unsatisfactory. Not open to native speakers of Spanish. No new enrollments permitted after the third class session.</p>								
AS.211.340	01	H		<p><b>Topics in French Cinema: Amour, Sexualité, Mariage</b></p> <p><i>Roos, Suzanne</i></p> <p>What is the nature of desire? Where does it come from, and what determines and conditions it? What do we fall in love with when we fall in love? An exploration of a series of films that ask essential questions about the psychological, political, and social stakes of human love, desire and sexuality, and about the institution of marriage. Focus on discussion and analyses of film sequences in class and on oral presentations. Students will have the opportunity to progress in vocabulary and oral expression. Films studied include works of Truffaut, Godard, Bunuel, Kechiche, Haneke, Breillat and Ophuls.</p>	3.00	12	MW 1:30-2:45PM	Recommended course background: completion of AS. 210.301 or equivalent score on Placement test.				
AS.211.380	01	H		<b>Modern Latin American Culture</b>	3.00	17	MW 4:30-5:45PM					

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				<i>Staff</i> Taught in Spanish. This course will explore the fundamental aspects of Latin- America culture from the formation of independent states through the present—in light of the social, political, and economic histories of the region. The course will offer a general survey of history of Latin- America, and will discuss texts, movies, songs, pictures, and paintings, in relation to their social, political, and cultural contexts. May not be taken satisfactory/unsatisfactory.								
AS.211.380	02	H		<b>Modern Latin American Culture</b>	3.00	17	TTh 10:30-11:45AM					
AS.211.402	01	H	W	<b>La France Contemporaine II</b>  <i>Staff; Wuensch, April</i> 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. Recommended Course Background: AS.210.301-AS.210.302 or AS.210.301 or permission of instructor.	3.00	15	TTh 10:30-11:45AM	Permission required: Contact Professor Cook-Gailloud: kacg@mac.com)				
AS.211.402	02	H	W	<b>La France Contemporaine II</b>	3.00	15	TTh 1:30-2:45PM					
AS.211.472	01	H	W	<b>Barbers and countesses: conflict and change in the Figaro trilogy from the age of Mozart to the 20th century</b> <i>Refini, Eugenio</i>	3.00	15	T 1:30-4:00PM					

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				<p>2016 marks the bicentennial of Rossini's irreverent masterwork <i>The Barber of Seville</i>, which premiered in Rome in February 1816. Thirty years earlier, in 1786, Mozart's <i>The Marriage of Figaro</i> had opened in Vienna. The two operas, based on the first two plays of Beaumarchais' controversial "Figaro trilogy", stage conflicts of class and gender, challenging the assumptions of the aristocracy as well as the ludicrous pretensions of the rising bourgeoisie. The same themes inform the post-modern portrayal of the past in John Corigliano's <i>The Ghosts of Versailles</i> (1991), which ideally completes the musical afterlife of the trilogy. By studying how the plays were adapted to the opera stage within their different cultural and historical contexts, the course will explore the representation of the ideological, social, and political turmoil that, eventually, culminated in the French Revolution. The course will also include field trips and screenings of movies such as Stanley Kubrick's <i>Barry Lyndon</i> (1975) and Milos Forman's <i>Amadeus</i> (1984). This course may be used to satisfy major requirements in both the French and Italian majors.</p>								
AS.211.475	01	H	W	<p><b>Inside the Writer's Laboratory</b> <i>Miglietti, Sara Olivia</i></p> <p>How do books come to life? Behind every masterpiece is a tale of hard work, dialogue with other texts, and constant negotiations with social and material circumstances that evolve over time. This course opens up the "laboratory" of figures of the European Renaissance like Erasmus, Machiavelli, and Montaigne to explore the world of writerly culture in its manifold expressions, including authorial revision, self-translation, controversy, censorship, intertextuality, and forgery. Our own laboratory will be the Department of the Special Collections, where we will spend a good deal of our time handling manuscripts and early printed books. Course may be used to satisfy major requirements in both French and Italian sections.</p>	3.00	15	M 1:30-4:00PM					
AS.212.334	01	H	W	<p><b>Introduction à la littérature française II</b> <i>Schilling, Derek</i></p>	3.00	15	TTh 10:30-11:45AM					

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				Readings and discussion of texts of various genres from the Middle Ages to the 20th century. The two semesters (212.333 and 212.334) 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. Introduction à la littérature française II covers the time period from the Revolution to the present.							Prerequisite: AS.210.301 OR AS.210.302 or at least one semester of AS.210.301 or AS.210.302 with a grade of A and written permission of the instructor.	
AS.212.339	01	H	W	<b>Constructing Poe: How 19th Century France created an icon</b> <i>Alexander, Abigail Rose</i> Just who was Edgar Allan Poe, and who is he today? This course explores how and why a multitude of 19th-century French writers constructed Poe as an author. Through selected works from Hugo, Baudelaire, Mallarmé, and Verne, to be read alongside Poe's original texts, we will study the means by which these figures projected uniquely French versions of this mysterious American writer the better to stake out their own literary revolutions. By exploring versification, translation, adaptation, and the role of the proper name, we will examine the broad literary history that underlies contemporary understandings of Poe. No knowledge of French is required.	3.00	15	TTh 10:30-11:45AM					
AS.212.362	01	H		<b>Ecrire l'héroïsme au féminin [Writing Heroism in the Feminine]</b> <i>Cariou, Lenaig</i>	3.00	15	TTh 3:00-4:15PM					

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				How can we define a heroine? What distinguishes heroines from mere female protagonists? Who are the main heroines to have marked the French literary tradition? This course examines how writers have transformed the notion of heroism inherited from Ancient Greece and Rome to lend it different and distinctly gendered shapes in the figure of the female hero: bravery, scandal, crime, sacrifice, nationalism. Focus will be placed on the evolution of the concept from the 17th century to the end of the 20th century in novels and plays by Racine, Madame de Lafayette, Prevost, Balzac, Maupassant, Anouilh, Wittig, and Condé. Recommended Course Background: AS.212.333 or AS.212.334.								
AS.212.383	01	H	W	<b>Ecrire l'ailleurs : littérature, voyage, utopie</b>	3.00	15	MW 12:00-1:15PM					
				<i>Miglietti, Sara Olivia</i> Distant places have always exerted a particular fascination on the human mind. Many classics of European literature feature journeys to foreign lands, whether real or imaginary: from More's Utopia and Ariosto's Moon, to Bacon's New Atlantis and Swift's Lilliput. Through a range of examples from early modern France, we will explore the complex relationship between travel and the literary imagination. Topics to discuss include: the style, status, and models of travel literature; cultural encounter, Otherness, and self-representation; imaginary places and social critique. Readings will include fictional texts like Cyrano's Estats et empires de la Lune, genuine travel reports such as Champlain's Voyage au Canada, and works that skilfully mix fiction and reality, as in Montesquieu's Lettres persanes.								
AS.212.429	01	H		<b>Thesis Prep</b> <i>Staff</i>	1.00	15	TBA					

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				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. 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.				Prerequisites: 212.333-334 and either prior enrollment or concurrent enrollment in AS.210.417 Eloque			Prerequisite or Corequisite: AS.210.417; Prerequisite: AS.212.333 OR AS.212.334		
AS.212.430	01	H	W	<b>Senior Seminar</b> <i>Anderson, Wilda; Staff</i> 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. Recommended Course Background: AS.212.429.	3.00	16	T 1:30-4:00PM	French majors only AS.212.333 and AS.212.334 or permission of the instructor	Seniors Only		AS.212.429		
AS.212.434	01	H	W	<b>Reading Poetry</b> <i>Staff</i> Reading poetry is one of the best ways to learn and practice the complex richness of a language. Through close readings and interpretation of prominent poems in French from the Early Modern to the Contemporary period, this course addresses the variations of Poetry through history and its function and importance in society. What do changes in poetic forms mean? How do tensions between verse and prose in modern Poetry work? What makes writing and reading Poetry interesting? Students will compose and present their own "French Poetry Anthology." Course taught in French, though students may also investigate the translatability of Poetry.	3.00	12	Th 1:30-4:00PM	Recommended course background: AS.212.333 and AS.212.334					
AS.213.329	01			<b>Berlin Ost-Ost-West</b> <i>Pahl, Katrin</i>	3.00	15	TTh 12:00-1:15PM						





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Taught in German. Franz Kafka is regarded as one of the most influential writers of the 20th century. To this day, his lucid and subtle prose continues to intrigue literary critics, writers of fiction, and readers with observations that create a fictive world at once strange and familiar, hopelessly tragic and hilariously comical. The related term "kafkaesque" refers to the unique character of a literary universe that is perceived as both eerie and resistant to any classification. In this course, we will analyze texts by Franz Kafka from a variety of perspectives: as investigations into modern institutions and bureaucracy, law, punishment and family structures. Special emphasis will be given to the exploration of Kafka's poetic practice, i.e. to the material, rhetorical and performative quality of his writing. In addition to reading a selection of Kafka's prose and analyzing several film adaptations, we will also discuss some influential commentaries on his work and discuss Kafka's impact on the conceptualization of modernity. Students will gain an in-depth understanding of Kafka's oeuvre while developing skills in critical analysis and literary close reading.

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AS.214.171	01	H		<b>Witchcraft and Demonology in Renaissance Europe</b> <i>Stephens, Walter E</i> Who were the witches? Why were they persecuted for hundreds of years? Why were women identified as the witches par excellence? How many witches were put to death? (Answer: 30-40,000, between about 1400 and 1800.) What traits did European witchcraft share with witch-mythologies in other societies? After the witch-hunts ended, how did "The Witch" go from being "monstrous" to being "admirable" and even "sexy"? Answers are found in history and anthropology, but also in literature, folklore, music, and the visual arts. After an introduction to ancient and medieval witchcraft, we will study European witch-persecution between 1400 and 1800. The second half of the course will concentrate on artistic representations of witches in media ranging from manuscripts to movies, concentrating on Italy, France, Spain, and Germany.	3.00	18	TTh 10:30-11:45AM					
AS.214.302	01	H	W	<b>The Agony and the Ecstasy from Dante to the Romantics</b> <i>Staff</i> By exploring texts and topics in Italian literature and culture from the Middle Ages to modernity, the course will address a variety of themes crucial to the development of the Italian literary tradition. Authors will include Dante, Petrarch, Boccaccio, Ariosto, Tasso, Leopardi, Manzoni. The course is taught in English with special sessions in Italian for Italian Majors and Minors (so as to count towards the Italian Major/Minor requirements).	3.00	12	TTh 4:30-5:45PM				Not open to students who have taken AS.214.301.	
AS.214.302	02	H	W	<b>The Agony and the Ecstasy from Dante to the Romantics</b>	4.00	3	TTh 4:30-5:45PM					
AS.214.445	01	H	W	<b>Boccaccio's Decameron and the Multiplicity of Story-Telling</b> <i>Stephens, Walter E</i>	3.00	9	W 1:30-4:00PM					

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				Boccaccio's Decameron (1352), a collection of 100 short stories, ranges from the bawdy through the cynical to the romantic and even fantastic. It has inspired numerous writers, artists, musicians and film-makers. We will read Boccaccio's masterpiece on its own terms and in relation to the development of story-telling, from gossipy "news" (nouvelle) to artistic short story, theatrical adaptation, literary fairy-tale, and the fantastic. The Decameron will be compared with its forerunners in saints' lives, bawdy fabliaux, and moral exempla, and with its literary, theatrical, and filmic imitators in Italy and Europe. Italian graduate students and undergraduate majors will attend an extra weekly meeting conducted in Italian. Those students should enroll in section 2 which will be awarded 4 credits.								
AS.214.445	02	H	W	<b>Boccaccio's Decameron and the Multiplicity of Story-Telling</b>	4.00	3	W 1:30-4:00PM					
AS.215.231	01	H		<b>Introduction to Literature in Spanish</b>  <i>Gonzalez, Eduardo; Staff</i> 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.	3.00	17	MW 12:00-1:15PM					
AS.215.231	02	H		<b>Introduction to Literature in Spanish</b>	3.00	17	TTh 3:00-4:15PM					
AS.215.336	01	H		<b>Don Quijote</b> <i>Sieber, Harry</i>	3.00	12	T 4:00-6:30PM					

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				A close reading and discussion primarily in Spanish of Cervantes' masterpiece, with concentration on its major themes and contributions to the formation of the modern novel. We will use A. Murillo's edition of the novel, Editorial Castalia.							Prerequisite: AS.210.311 AND AS.210.312	
AS.215.338	01	H		<b>Introduccion a la literatura argentina</b> <i>Altschul, Nadia</i> La literatura se enmarca en la realidad social y es una ventana hacia la cultura. En esta introducción consideraremos diferentes temas de especial importancia en la cultura y literatura argentina, como la separación entre la ciudad (puerto, civilización, contacto europeo) y el campo (provincias, barbarie, tradicionalismo rural) que empieza con el texto fundacional de Domingo F. Sarmiento, Facundo. Observaremos asimismo que esta influyente dicotomía que se establece con la independencia política es modificada con la llegada masiva de inmigrantes a fin de siglo y finalmente pierde su fuerza con la dictadura militar de los años '70 y con el desencanto neoliberal que estalla con la crisis del 2001.	3.00	15	T 1:30-4:00PM	Recommended course background: Advanced Spanish I (AS.210.311)				
AS.215.345	01	H		<b>Children &amp; Adolescents in Latin America</b> <i>Judy, Lauren Gabrielle</i> Through the close reading of primary texts written by or about adolescents, this course examines youth participation in Latin American art and society from the mid 20th century. Students wishing to complete the writing portions of the course in Spanish or Portuguese should enroll in section 2 which will award 4 credits instead of the usual 3.	3.00	12	TTh 12:00-1:15PM					

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AS.215.345	02	H		<b>Children &amp; Adolescents in Latin America</b>	4.00	6	TTh 12:00-1:15PM	Some background in Spanish or Portuguese is recommended but unnecessary.					
AS.215.463	01	H	W	<b>Borges: His Fiction and Critical Essays</b> <i>Castro-Klaren, Sara</i> This course will deal with close readings of Borges ficciones and critical essays in order to determine how his thinking on the problem of writing and thinking is fictionalized in his stories.	3.00	15	W 1:30-4:00PM						
AS.215.484	01			<b>Orientalismo al Sur</b> <i>Altschul, Nadia</i> Taught in Spanish. Este curso examina la presencia del Islam y el concepto del "oriente" en el Cono Sur, especialmente Argentina. Leeremos obras de los siglos 19 y 20 que representan al oriente, y discutiremos los significados y cambios que la llegada de inmigrantes "islámicos" produjo en la cultura literaria de esta zona de América Latina. Tendremos en cuenta de forma particular que el problema del "oriente" en España y sus colonias es un problema "interno". Debido a que la península ibérica tuvo una importante presencia musulmana durante toda la edad media (711-1609), en los círculos europeos España fue considerada "islámica" u "oriental" también durante los tiempos modernos. Es así que el Oriente llega a América con la conquista de los españoles "islamizados." Cross-listed with PLAS	3.00	15	M 1:30-4:00PM	Waived language required by placement exam or permission of instructor may substitute for Advanced S					
AS.216.300	01	H		<b>Contemporary Israeli Poetry</b> <i>Stahl, Neta</i>	3.00	15	T 1:30-4:00PM						

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				This course examines the works of major Israeli poets such as Yehuda Amichai, Nathan Zach, Dalia Rabikovitch, Erez Biton, Roni Somek, Dan Pagis, Yona Wollach, Yair Horwitz, Maya Bejerano, and Yitzhak Laor. Against the background of the poetry of these famous poets we will study recent developments and trends in Israeli poetry, including less known figures such as Mois Benarroch, Shva Salhoov and Almog Behar. Through close reading of the poems, the course will trace the unique style and aesthetic of each poet, and will aim at presenting a wide picture of contemporary Hebrew poetry.							Students may receive credit for AS.216.300 or AS.300.413, but not both.	
AS.216.342	01	H	W	<b>The Holocaust in Israeli Society and Culture</b>	3.00	15	TTh 12:00-1:15PM					
				<i>Stahl, Neta</i> This course examines the role of the Holocaust in Israeli society and culture. We will study the emergence of the discourse of the Holocaust in Israel and its development throughout the years. Through focusing on literary, artistic and cinematic responses to the Holocaust, we will analyze the impact of its memory on the nation, its politics and its self-perception.								
AS.216.398	01	H		<b>Zionism: Literature, Film, Thought</b>	3.00	15	TTh 10:30-11:45AM					
				<i>Stahl, Neta</i> This course studies the relation between Israeli culture and Zionism. Based on a close reading of both literary and non-literary Zionist texts, we will explore the thematic, social and political aspects of the Zionist movement. The course focuses on primary sources and its main goal is to familiarize students with the history of Zionism and its influence on Israeli culture. In the last part of the semester we will investigate the different meanings of Post-Zionism through contemporary literary and non-literary texts as well as recent Israeli films. Students wishing to do additional work in Hebrew should enroll in section 2 where students will meet for an additional hour at a time TBD and will earn 4 credits for the course.							Students may receive credit for AS.216.398 or AS.300.398, but not both.	

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AS.216.398	02	H		<b>Zionism: Literature, Film, Thought</b>  <i>Cohen, Zvi; Stahl, Neta</i>	4.00	5	TTh 10:30-11:45AM					
AS.300.115	01	H		<b>Introduction to Romantic Poetry</b>  <i>Lisi, Leonardo</i> This course offers an introduction to romantic poetry through a comparative approach to three of the movement's key authors: Friedrich Hölderlin, John Keats, and Giacomo Leopardi. We will work through their main writings in detail along with considerations of their cultural contexts and theoretical and critical approaches to romanticism more broadly.	3.00	15	WF 12:00-1:15PM					Y
AS.300.349	01	H		<b>Capitalism and Tragedy: from the 18th Century to Climate Change</b>  <i>Lisi, Leonardo</i> In contemporary discussions of climate change it is an increasingly prevalent view that capitalism will lead to the destruction of civilization as we know it. The notion that capitalism is hostile to what makes human life worth living, however, is one that stretches back at least to the early eighteenth century. In this class we will examine key moments in the history of this idea in works of literature, philosophy, and politics, from the birth of bourgeois tragedy in the 1720s, through topics such as imperialism and economic exploitation, to the current prospects of our ecological future. Authors to be studied will include: Lillo, Büchner, Balzac, Dickens, Marx and Engels, Ibsen, Weber, Conrad, Brecht, Miller, Steinbeck, as well as contemporary fiction, politics, and philosophy on climate change. Cross listed with English.	3.00	15	Th 1:30-4:00PM					
AS.300.419	01	H		<b>1966 before and after: French theory</b>  <i>Ender, Evelyne</i>	3.00	12	M 1:30-4:00PM					

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## German &amp; Romance Languages &amp; Literatures

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				The "Languages of Criticism" conference held at Hopkins marked a watershed moment in the history of literary studies and redefined, for many scholars and intellectuals, the nature of humanistic inquiries. This course involves the close study of key texts that, from the postwar years into 1970s (from Bachelard, Poulet, and Starobinski to Lacan, Barthes, and Derrida), are landmarks in this changing critical and philosophical landscape. Knowledge of French is desirable but not required.								
AS.361.130	01	HS		<b>Introduction to Latin American Studies</b> <i>Gonzalez, Eduardo; Paquette, Gabriel</i> This course provides an introduction to the study of Latin American cultures and societies from the vantage point of city life and urban representation. We will engage literatures from a variety of disciplines to discuss how issues such as modernization and urbanization processes; tradition, identity and ethnicity; class, marginality and urban social movements; gender and the changing status of women; arts and literature are experienced and represented in the Latin American urban environments.	3.00	20	W 1:30-4:00PM					
AS.384.116	01			<b>First Year Modern Hebrew II</b> <i>Cohen, Zvi</i> 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.	4.00	16	TBA				AS.384.115	
AS.384.216	01	H		<b>Second Year Modern Hebrew II</b> <i>Cohen, Zvi</i> Designed to enrich vocabulary and provide intensive grammatical review, and enhance fluency in reading, writing and comprehension. Recommended Course Background: AS.384.215 or permission required.	4.00	16	TBA				AS.384.215	
AS.384.316	01	H		<b>Third Year Modern Hebrew II</b>	4.00	16	TBA					



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German & Romance Languages & Literatures

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
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Designed to: maximize comprehension and the spoken language through literary and newspaper excerpts providing the student with the language of an educated Israeli.  
Recommended Course Background:  
AS.384.315 or permission required. Cross-listed with Jewish Studies.

AS.384.315

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## History

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.100.104	01	HS	W	<b>Modern Europe and the Wider World</b>  <i>Jelavich, Peter</i> European history since the French Revolution. Topics include: revolutions and democratization, industrialization, nationalism, imperialism, two World Wars, fascism, decolonization, Soviet communism, and formation of the European Union.	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM					
AS.100.104	02	HS	W	<b>Modern Europe and the Wider World</b>	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM					
AS.100.104	03	HS	W	<b>Modern Europe and the Wider World</b>	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM					
AS.100.104	04	HS	W	<b>Modern Europe and the Wider World</b>	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM					
AS.100.104	05	HS	W	<b>Modern Europe and the Wider World</b>	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM					
AS.100.104	06	HS	W	<b>Modern Europe and the Wider World</b>	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM					
AS.100.104	07	HS	W	<b>Modern Europe and the Wider World</b>	3.00	15	MW 11:00-11:50AM; F 12:00-12:50PM					

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AS.100.104	08	HS	W	<b>Modern Europe and the Wider World</b>	3.00	15	MW 11:00-11:50AM; F 12:00-12:50PM					
AS.100.194	01	HS	W	<b>Undergraduate Seminar in History</b> <i>Furstenberg, Francois</i> The second semester of the two-semester sequence required for majors, this course further introduces students to the theory and practice of history. Students write an essay based on original research.	3.00	20	W 1:30-3:50PM	continuation of AS.100.193				
AS.100.194	02	HS	W	<b>Undergraduate Seminar in History</b> <i>Rowe, William T</i>	3.00	20	T 1:30-3:50PM					
AS.100.205	01	HS	W	<b>Freshman Seminar: Health, Healing, and Medicine in Africa</b> <i>Larson, Pier M</i> A freshman seminar introducing students to the history of health, healing, and forms of medical practice in Africa over the last two centuries.	3.00	16	W 2:30-4:50PM		Freshmen Only			
AS.100.210	01	HS		<b>Freshman Seminar: Real Pirates of the Caribbean</b> <i>Smoak, Katherine L</i> This freshman seminar explores the rise of economic crimes, including piracy, smuggling, and counterfeiting, in the 17th- and 18th-century British North America and Caribbean, and their portrayal in popular culture. Freshmen Only.	3.00	15	TTh 10:30-11:45AM		Freshmen Only			
AS.100.218	01	HS	W	<b>Freshman Seminar: Russian History from Revolution to Cold War</b> <i>Brooks, Jeffrey P</i> Students will explore Russian politics and culture from 1905 to 1953.	3.00	18	T 1:30-3:50PM		Freshmen Only			
AS.100.233	01	HS		<b>History of Modern Germany</b> <i>Balz, Hanno</i>	3.00	40	MW 1:30-2:45PM					

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				This course will offer a concise introduction to the political, social, and cultural history of Germany from the founding of the Empire in 1871 until the present.								
AS.100.234	01	HS		<b>The Making of the Muslim Middle East, 600-1100 A.D.</b> <i>El-leithy, Tamer</i> A survey of the major historical transformations of the region we now call the 'Middle East' (from late antiquity through the 11th century) in relation to the formation and development of Islam and various Muslim empires.	3.00	40	TTh 3:00-4:15PM					
AS.100.248	01	HS		<b>Japan in the World</b> <i>Kim, Hayang</i> This course is an introduction to Japan's history from 1800 to the present with emphasis on the influences of an increasing global circulation of ideas and people. Topics include the emperor system, family and gender, imperialism, World War II, the postwar economy, and global J-pop.	3.00	25	MW 12:00-1:15PM					
AS.100.306	01	HS	W	<b>America and the Great War, 1898-1920</b> <i>Walters, Ronald</i> This small, discussion-oriented course covers the period from the Spanish-American War through the end of WWI and the Red Scare that more or less ended in 1920.	3.00	15	M 1:30-3:50PM					
AS.100.311	01	HS		<b>National Pastimes: Sports, Culture, and American History</b> <i>Davis, Amira Rose</i> National Pastimes examines the development of sports in the United States over the course of the 20th century with a particular interest in the relationship between sports and politics as well as issues of race, gender, sexuality and class.	3.00	18	TTh 10:30-11:45PM					
AS.100.314	01	HS	W	<b>The Enlightenment</b> <i>Kwass, Michael</i>	3.00	14	MW 12:00-1:15PM					

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				This course examines the Enlightenment, an intellectual movement that swept Europe in the eighteenth century to shape the modern world.								
AS.100.315	01	HS		<b>Jewish Political Thought and Social Imagination, 1880-1940</b> <i>Moss, Kenneth</i> How a range of Jewish thinkers, activists, and creative writers grappled intellectually with the challenge of the nation-state, the rise and collapse of empires, antisemitism as a political phenomenon, the nature of politics and political action, the nature of modern societies, and the question of Jewish self-determination and sovereignty, 1880-1940. Readings by Herzl, Bernard Lazare, Freud, Kafka, Leshtshinsky, Arendt, Adorno, Michael Chabon, among others.	3.00	20	W 1:30-3:50PM					
AS.100.325	01	HS		<b>Images of War in the 20th Century</b> <i>Balz, Hanno</i> This course examines the changing face of war in photographs, propaganda posters, comics, and film from World War I to the "war on terror."	3.00	18	Th 4:00-6:30PM					
AS.100.340	01	HS	W	<b>Russian Imagination</b> <i>Brooks, Jeffrey P</i> Culture, Politics, and Society in Russia's great age of creativity, 1850s to 1950s.	3.00	18	Th 1:30-3:50PM					
AS.100.345	01	HS	W	<b>Religion, Secularity, and Nationhood in Modern Jewish Identity Politics</b> <i>Moss, Kenneth</i>	3.00	20	M 1:30-3:50PM					



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AS.100.385	01	HS	W	<b>Mobility and Encounter in the Medieval Indian Ocean</b> <i>El-leithy, Tamer</i> This seminar discusses forms of mobility and exchange- trade and travel, conquest and religious transformation, diasporas and migration, the spread of practices and technologies- across the Indian Ocean from the 8th to 16th centuries.	3.00	16	TTh 12:00-1:15PM					
AS.100.399	01	H	W	<b>Decolonization and Citizenship in Africa, 1945-2015</b> <i>Larson, Pier M</i> Critically explores issues of decolonization and citizenship in Africa from WWII to the present. Emphasis on political inclusion and exclusion, and violence, fostered by nationalist movements and postcolonial African governments.	3.00	15	T 4:00-6:30PM					
AS.100.405	01	HS	W	<b>European Socialist Thought</b> <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	19	T 1:30-3:50PM					
AS.100.406	01	HS	W	<b>American Business in the Age of the Modern Corporation</b> <i>Galambos, Louis P</i> This course will focus on business organizations, their performance, and sociopolitical relations in the 20th century. Each of the students will be expected to reach conclusions about that history and will be required to sharpen those conclusions by writing three, interrelated essays.	3.00	20	TTh 9:00-10:15AM					
AS.100.411	01	HS	W	<b>Readings in the History of Public Health in the 20th and 21st Centuries</b> <i>Galambos, Louis P</i>	3.00	20	Th 1:30-3:50PM					

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				The students will read major and some minor works in the history of global public health and will each develop their own concept of how and why the major institutions, professions, and practices associated with public health have evolved over the past long century. To help the students focus on their ideas, they will write three essays on particular aspects of the history.								
AS.100.437	01	HS	W	<b>Late Imperial China: History and Fantasy</b> <i>Meyer-Fong, Tobie</i> Students in this seminar will look at the ways in which Chinese and Western scholars, novelists, film-makers, and artists have represented China's Late Imperial period. We will look at the way foreigners have imagined China, and the ways in which Chinese writers past and present have fancifully, nostalgically, and inventively rendered their personal and national pasts. The course will explore issues of historical, geographical, and literary imagination. Cross-listed with East Asian Studies	3.00	12	W 1:30-3:50PM					
AS.130.352	01	H		<b>History of Hasidism</b> <i>Katz, David</i> Although it appears to be a relic of pre-modern Judaism, Hasidism is a phenomenon of the modern era of Jewish history. This course surveys the political and social history of the Hasidic movement over the course of the last three centuries. Students will also explore basic features of Hasidic culture and thought in their historical development. Cross-listed with Jewish Studies.	3.00	50	TTh 9:00-10:15AM					



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AS.140.146	01	HS		<b>History of Public Health in East Asia</b>  <i>Hanson, Marta</i> This course examines the history of disease, epidemics, and public health responses in East Asia from the 17th-20th centuries. This public health history emphasizes the interactions, connections, and comparisons among China, Japan, Korea, and Taiwan.	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM			Freshmen seats held 5; Seats for All ASEN students 15		
AS.140.146	02	HS		<b>History of Public Health in East Asia</b>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM					
AS.140.146	03	HS		<b>History of Public Health in East Asia</b>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM					
AS.361.130	01	HS		<b>Introduction to Latin American Studies</b> <i>Gonzalez, Eduardo; Paquette, Gabriel</i> This course provides an introduction to the study of Latin American cultures and societies from the vantage point of city life and urban representation. We will engage literatures from a variety of disciplines to discuss how issues such as modernization and urbanization processes; tradition, identity and ethnicity; class, marginality and urban social movements; gender and the changing status of women; arts and literature are experienced and represented in the Latin American urban environments.	3.00	20	W 1:30-4:00PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.376.317	01	HS	W	<b>Jewish Music</b> <i>Walden, Joshua</i> What is "Jewish music," and what roles has it played in global and Jewish cultures? This course will address these questions, considering genres and contexts of Jewish music from cantillation to klezmer and from art music to Yiddish cinema. Cross listed with Jewish Studies	3.00	20	Th 1:30-3:50PM					
AS.389.302	01	H		<b>The Virtual Museum</b> <i>Kingsley, Jennifer P</i> Course draws on both classic readings in material culture and emerging theories of the digital to consider how the internet has changed objects and the institutions that collect, preserve, display and interpret them. Students will contribute to an established virtual museum and create their own.	3.00	12	TTh 12:00-1:15PM					

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## History of Art

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.010.102	01	H	W	<b>The History of Western Art II</b>  <i>Markoski, Katherine Elizabeth</i> A survey of painting, sculpture, and architecture from the Renaissance to the present. Recommended Course Background: AS.010.101 or instructor permission.	4.00	25	F 10:00-10:50AM; MW 12:00-1:15PM					
AS.010.102	02	H	W	<b>The History of Western Art II</b>  <i>Lakey, Christopher; Markoski, Katherine Elizabeth</i>	4.00	25	F 11:00-11:50AM; MW 12:00-1:15PM					
AS.010.102	03	H	W	<b>The History of Western Art II</b>	4.00	25	MW 12:00-1:15PM; F 12:00-12:50PM					
AS.010.102	04	H	W	<b>The History of Western Art II</b>	4.00	25	F 12:00-12:50PM; MW 12:00-1:15PM					
AS.010.204	01	H		<b>Italian Art in the Middle Ages</b> <i>Zchomelidse, Nino</i> This course explores key monuments of medieval art and architecture in Italy from c. 400 until 1350. We will concentrate on historical, functional, and aesthetical aspects that lead to the creation of single monuments and art works. Emphasis is given to the analysis of "sacred space" by means of architecture, painted, and sculptural decoration, as well as ritual performances. Another focus is laid on the emergence on the political dimension of art for the creation of civic identity as well as in the context of the late medieval courts. We raise questions about the importance of materiality and science for the creation of medieval art works.	3.00	25	MW 1:30-2:45PM					

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## History of Art

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AS.010.212	01	H		<b>Mirror Mirror: Reflections in Art from Van Eyck to Velasquez</b> <i>Merback, Mitchell</i> Explores the different ways Early Modern painters incorporated mirrors and reflective surfaces into their works for the sake of illusion and metaphor, deception and desire, reflexivity and truth-telling. By transgressing the boundaries of human vision and experience, embedded mirror images often made claims about the powers of art, and the superiority of painting in particular.	3.00	20	TTh 12:00-1:15PM					
AS.010.251	01	H		<b>Medieval Spaces: Site, Image, and Viewer in the Middle</b> <i>Lakey, Christopher</i> This course serves as an introduction to medieval art by analyzing the relationships between architecture and images at holy sites from the 4th century CE through the 14th. The course will focus primarily on how those relationships structured viewers' experiences of the divine by understanding how works functioned for specific audiences in a particular spatial context. In reviewing the origins and transformations of Christian visual culture we will investigate how site-specific image production in Western Europe and Byzantium informed social and political relations; how theological problems related to image worship affected the form and content of the visual arts; and how developments in public and private devotion altered the spaces for imagistic display.	3.00	25	TTh 10:30-11:45AM					
AS.010.304	01	H		<b>Pictures on Walls: Murals and Mosaics in the Byzantine and Medieval Worlds</b> <i>Hauknes, Marius</i> This course examines the development monumental mosaic and fresco in the medieval Mediterranean (ca. 250-1300), through key monuments in places like Constantinople, Thessaloniki, Cyprus, Palermo, Rome, and Venice.	3.00	15	TTh 12:00-1:15PM					
AS.010.315	01	H		<b>Art of the Assyrian Empire, 1000-600 BCE</b>	3.00	20	MW 12:00-1:15PM					

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				<i>Feldman, Marian</i> The Assyrian Empire dominated the ancient world from 1000-612 BCE, stretching from Iran to Egypt and laying the foundation for the later Persian and Macedonian empires. With imperial expansion came an explosion of artistic production ranging from palace wall reliefs to small-scale luxury objects. This course provides an integrated picture of the imperial arts of this first great empire, situating it within the broader social and political contexts of the first millennium BCE.								
AS.010.321	01	H		<b>Pompeii: The Art and Architecture of a Roman Town</b> <i>Tucci, Pier Luigi</i> Pompeii, buried by the eruption of Mons Vesuvius in AD 79, offers the best evidence of everyday life in the Roman world. The course examines its public buildings and houses, as well as the main villas outside the city walls. A final paper will be required.	3.00	20	TTh 10:30AM-11:45PM					
AS.010.325	01	H		<b>Performance Art in America and Europe: 1909 to Present</b> <i>Markoski, Katherine Elizabeth</i> This course surveys the development of performance art in the twentieth- and twenty-first centuries. We will explore the evolution of performance as a medium; the ways performance artists have engaged questions of race, gender, and sexuality; shifting relationships between performance and work in other media; and theories of performance. We will also examine the special challenges that attend the study of ephemeral and time-based art. There will be a final paper.	3.00	25	MW 10:30-11:45AM					
AS.010.326	01	H		<b>Monsters, Madmen, and Matadors: Goya between Truth and Fantasy</b> <i>Letvin, Alexandra Owen</i>	3.00	12	TTh 3:00-4:15PM					

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## History of Art

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<p>With over 1,800 works attributed to him, Francisco de Goya (1746-1828) was constantly inventing, experimenting, and pushing the limits of the representable. This course will begin by examining Goya's printed oeuvre as one possible itinerary for studying his life and work. The second half of the course will consider alternative narratives for Goya's career based on genre and theme. Topics will include portraiture, madness, religious painting, and the discovery of Goya by later generations of artists, authors, and filmmakers.</p> <p>The course includes several visits to the print room at the Baltimore Museum of Art. There will be a final paper.</p>								
AS.010.328	01	H		<p><b>The Holy Undead: Relics, Reliquaries, and the Cult of Saints in Medieval and Early Modern Europe</b> <i>Golan, Tamara Elizabeth</i></p> <p>According to medieval Christian theology, the saints resided in both the earthly and heavenly spheres and would often bridge this gap in order to interact with the living. Their bodily remains and possessions were powerful sites of potential contact between the sacred and profane. Through their relics, saints could straddle the two realms in order to heal, intercede, perform miracles, or even enact punishment. Images of relics, reliquaries, miraculous images, and the like helped to narrate, authenticate, or negotiate transactions between the devotee and the divine. This course will provide students with a historical overview of the medieval cult of saints and relics, focusing primarily on the ways in which images could invest these sacred objects and bodily remains with power and meaning.</p>	3.00	18	TTh 1:30-2:45PM					
AS.010.366	01	H		<p><b>Native American Art</b> <i>Deleonardis, Lisa</i></p>	3.00		TTh 10:30-11:45AM					

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History of Art

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				The works of Native American artists are examined and discussed in their respective social and historical contexts. Such works include Hopewell stone sculpture, Mimbres pictorial painting, and Tlingit guardian figures. We examine the concept of sacred landscape through analysis of monumental earthworks and effigy mounds, Anasazi architecture, and rock art. In conjunction with the Baltimore Museum of Art (BMA), and Johns Hopkins Special Collections, students will have access to collections for study.								
AS.010.402	01	H		<b>Ancient Art in Fascist Italy</b> <i>Tucci, Pier Luigi</i> The course examines the role played by Roman art and architecture during the twenty years of the Fascist regime (1922-1943). There will be a final paper.	3.00	10	Th 1:30-3:50PM					
AS.010.403	01	H	W	<b>Art and Science in the Middle Ages</b> <i>Lakey, Christopher</i> This course investigates the intersections of art and science from the Carolingian period through the fourteenth century and the historical role images played in the pursuit of epistemic truths. Science – from the Latin scientia, or knowledge – in the Middle Ages included a broad range of intellectual pursuits into both the supernatural and natural worlds, and scholars have classified these pursuits in various ways (i.e. experimental or theoretical science, practical science, magic, and natural philosophy). A particular focus of this seminar will be placed on the assimilation of Greek and Islamic scientific advances in cartography, cosmology, and optical theory into the Latin theological tradition.	3.00	12	W 1:30-3:50PM					
AS.010.404	01	H	W	<b>The Cult Image in the Renaissance</b> <i>Zchomelidse, Nino</i>	3.00	10	T 3:00-6:00PM					

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				<p>This course discusses the role of cult images in the Renaissance period. While art historical scholarship has regarded images of cult as a medieval phenomenon, more recent studies (Holmes, Pon) address precisely the fact that image cults multiplied in line with the development of new aesthetic principles and theories of art in the context of the humanist circles in early modern Italy. The class challenges the idea of a division between the era of images and that of art as proposed by Hans Belting some 25 years ago.</p> <p>We investigate the emergence of a variety of new types of images made for public cults, such as wall paintings, prints, wooden sculpture, feathers, and their architectural and urban settings. How did the medieval tradition of the icon merge with the scientific and humanistic achievements of the early modern period? Moreover, we will examine the proliferation of cult images from Italy to other parts of Europe and beyond, such as the Americas and Asia, where the conception of new such images drew heavily on indigenous artistic and religious practices. There will be a final paper. Course is co-listed with AS.010.616.</p>								
AS.010.407	01	H		<p><b>Ancient Americas Metallurgy</b> <i>Deleonardis, Lisa</i></p> <p>Centering on a series of case studies, this course addresses the technology, aesthetics, and social significance of metals. We trace the development of metals from 1500 BCE in Chile and Peru, to the 16th century in Colombia and central Mexico, pausing to examine its forms and meanings in various cultural contexts, and the ideas that inform its value. In conjunction with the Baltimore Museum of Art (BMA), the Walters Art Museum (WAM), and the Johns Hopkins Archaeology Museum (JHUAM), students will have access to ancient metal works for study.</p>	3.00	25	TTh 1:30-2:45PM					
AS.040.150	01	H		<p><b>Island Archeology: Land and Sea in Ancient Crete, Cyprus and the Cyclades</b> <i>Anderson, Emily S.K.</i></p>	3.00	25	MW 1:30-2:45PM					



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				Islands present highly distinctive contexts for social life. We examine three island worlds of the ancient eastern Mediterranean. These are places where water had a unique and powerful meaning and boat travel was part of daily life, where palaces flourished and contact with other societies implied voyages of great distance. Class combines close study of material and visual culture with consideration of island-specific interpretive paradigms; trips to Archaeological Museum.								
AS.040.218	01	H		<b>Celebration and Performance in Early Greece</b> <i>Anderson, Emily S.K.</i> Surviving imagery suggests that persons in Minoan and Mycenaean societies engaged in various celebratory performances, including processions, feasts, and ecstatic dance. This course explores archaeological evidence of such celebrations, focusing on sociocultural roles, bodily experience, and interpretive challenges.	3.00	15	T 1:30-4:00PM					
AS.130.420	01	H	W	<b>Seminar in Research Methods in Near Eastern Studies: Text and Image in Ancient Near Eastern Art and Texts</b> <i>Delnero, Paul; Feldman, Marian</i> This writing intensive seminar examines how textual and artistic production were used separately and together to engender and communicate social, cultural, and political meaning in ancient Mesopotamia and the rest of the Near East from the 4th millennium to the Hellenistic period. Using a variety of case studies, students will develop skills in specific research skills such as critical reading, analysis, and interpretation. AS.130.420 is required of NES Majors, but is also open to non-majors who have taken at least one 100-level and one 300-level Near Eastern Civilization course, or with the consent of the instructor. Cross-listed with History of Art.	3.00	19	M 1:30-4:00PM					
AS.214.171	01	H		<b>Witchcraft and Demonology in Renaissance Europe</b> <i>Stephens, Walter E</i>	3.00	18	TTh 10:30-11:45AM					

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				Who were the witches? Why were they persecuted for hundreds of years? Why were women identified as the witches par excellence? How many witches were put to death? (Answer: 30-40,000, between about 1400 and 1800.) What traits did European witchcraft share with witch-mythologies in other societies? After the witch-hunts ended, how did "The Witch" go from being "monstrous" to being "admirable" and even "sexy"? Answers are found in history and anthropology, but also in literature, folklore, music, and the visual arts. After an introduction to ancient and medieval witchcraft, we will study European witch-persecution between 1400 and 1800. The second half of the course will concentrate on artistic representations of witches in media ranging from manuscripts to movies, concentrating on Italy, France, Spain, and Germany.								
AS.389.105	01	H	W	<b>Freshman Seminar: Art in the Museum</b> <i>Kingsley, Jennifer P</i>	3.00	15	Th 1:30-3:50PM					
				Go behind the scenes of local art museums to explore fundamental concepts and social issues particular to the collection and display of art in the past and today.				Class usually meets 1:30-3:50 except for days with field trips.	Freshmen Only			
AS.389.205	01	H		<b>Examining Archaeological Objects</b> <i>Balachandran, Sanchita</i>	3.00	14	F 1:30-3:50PM					
				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.								
AS.389.250	01	H		<b>Conservation of Material Culture: Art, Artifacts and Heritage Sites</b> <i>Trusheim, Lorraine</i>	3.00	10	W 2:00-4:30PM					



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AS.140.115	01	HS	W	<b>Freshman Seminar: Artificial Humans</b> <i>Frumer, Yulia</i> Looking at the history of attempts to augment or construct human beings, the course will explore the role of technology in molding human existence and shaping the defination of humanity.	3.00	14	T 1:30-3:50PM		Freshmen Only			
AS.140.146	01	HS		<b>History of Public Health in East Asia</b> <i>Hanson, Marta</i> This course examines the history of disease, epidemics, and public health responses in East Asia from the 17th-20th centuries. This public health history emphasizes the interactions, connections, and comparisons among China, Japan, Korea, and Taiwan.	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM			Freshmen seats held 5; Seats for All ASEN students 15		
AS.140.146	02	HS		<b>History of Public Health in East Asia</b>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM					
AS.140.146	03	HS		<b>History of Public Health in East Asia</b>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM					
AS.140.154	01	HS	W	<b>Picture This: A Photographic History of Johns Hopkins University</b> <i>Leslie, Stuart W</i> Every picture tells a story, if you know how to read it. This freshman seminar will explore the history of Hopkins through images, creating interactive timelines of important themes in the university's history.	3.00	18	MW 3:00-4:15PM		Freshmen Only			
AS.140.302	01	HS		<b>Rise of Modern Science</b> <i>Mercelis, Joris Hans Angele</i>	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM					

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				Survey of major scientific advances from 18th to 20th century, from Newtonian science to the age of Big Science.								
AS.140.302	02	HS		<b>Rise of Modern Science</b>	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM					
AS.140.320	01	HS		<b>Modernity on Display: Technology and Ideology in the Era of World War II</b> <i>Kargon, Robert H; Molella, Arthur</i> Seminar focuses on ideological at World's Fairs over technological modernity with special emphasis upon World War II and the Cold War.	3.00	20	T 1:30-3:50PM					
AS.140.357	01	HS	W	<b>Science Fiction Movies in the East and West</b> <i>Kim, Dong-won</i> What is a science fiction (SF) movie? How did SF movies and developments in science and technology influence each other during the twentieth century? What is the use of SF movies for societies? And why are SF movies much more popular in some countries than in others? By watching and analyzing classic and contemporary SF movies from the US, the Soviet Union, Japan, China, and other countries, we will search for answers to these questions. Special emphasis will be given to analyzing how historical, political, and cultural environments in different countries have influenced the production and acceptance of SF movies.	3.00	25	W 1:30-3:50PM					
AS.140.370	01	HS	W	<b>History of Mental Illness and Psychiatry in Modern West</b> <i>Staff</i>	3.00	20	W 1:30-3:50PM					

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				<p>This course will be an introduction to the history of "madness" in modern Europe and America. In particular, it will examine the ideas that have shaped perceptions of madness, insanity, and mental illness; the changing experiences of those afflicted; the development of those professions designed to look after those deemed mad, insane, and mentally ill; and the social and cultural assumptions behind treatments, policies, and public opinions.</p>								
AS.140.390	01	HS		<p><b>Science and Technology in Latin America</b></p> <p><i>Portuondo, Maria M</i></p> <p>The course surveys the development of western science and technology in Hispanic America (1492 to the present). We begin studying the hybridization of scientific practices between European and Native American cultures during the early colonial era and end with the transfer of technologies and industrialization of the 20th century. We emphasize the role on science and technology in state formation, the acculturation of foreign ideas in colonial and postcolonial societies, and the role of intellectual elites in modernization programs.</p>	3.00	20	TTh 10:30-11:45AM					
AS.140.412	01	HS	W	<p><b>Research Seminar</b></p> <p><i>Frumer, Yulia</i></p> <p>Departmental Majors Writing a Senior Thesis Only</p>	2.00	10	TBA			Seniors Only		

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AS.211.472	01	H	W	<p><b>Barbers and countesses: conflict and change in the Figaro trilogy from the age of Mozart to the 20th century</b></p> <p><i>Refini, Eugenio</i></p> <p>2016 marks the bicentennial of Rossini's irreverent masterwork The Barber of Seville, which premiered in Rome in February 1816. Thirty years earlier, in 1786, Mozart's The Marriage of Figaro had opened in Vienna. The two operas, based on the first two plays of Beaumarchais' controversial "Figaro trilogy", stage conflicts of class and gender, challenging the assumptions of the aristocracy as well as the ludicrous pretensions of the raising bourgeoisie. The same themes inform the post-modern portrayal of the past in John Corigliano's The Ghosts of Versailles (1991), which ideally completes the musical afterlife of the trilogy. By studying how the plays were adapted to the opera stage within their different cultural and historical contexts, the course will explore the representation of the ideological, social, and political turmoil that, eventually, culminated in the French Revolution. The course will also include field trips and screenings of movies such as Stanley Kubrick's Barry Lyndon (1975) and Milos Forman's Amadeus (1984). This course may be used to satisfy major requirements in both the French and Italian majors.</p>	3.00	15	T 1:30-4:00PM					
AS.300.102	01	H		<p><b>Great Minds</b></p> <p><i>de Vries, Hent</i></p> <p>Introductory survey of foundational texts of modern Western literature, thought and cinema. This semester will include works by Descartes, Marx, Dostoevsky, Tolstoy, Woolf, Wittgenstein, Heidegger, Arendt, and Pierre Hadot, and films by Dziga Vertov and Carl Theodor Dreyer. The course is taught in lectures and seminar discussions led by the course faculty.</p>	3.00	18	TTh 10:30-11:45AM					
AS.300.102	02	H		<p><b>Great Minds</b></p> <p><i>Eakin Moss, Anne</i></p>	3.00	18	TTh 10:30-11:45AM					

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AS.300.102	03	H		<b>Great Minds</b> <i>Marrati, Paola</i>	3.00	18	TTh 10:30-11:45AM					
AS.300.115	01	H		<b>Introduction to Romantic Poetry</b> <i>Lisi, Leonardo</i> This course offers an introduction to romantic poetry through a comparative approach to three of the movement's key authors: Friedrich Hölderlin, John Keats, and Giacomo Leopardi. We will work through their main writings in detail along with considerations of their cultural contexts and theoretical and critical approaches to romanticism more broadly.	3.00	15	WF 12:00-1:15PM					Y
AS.300.133	01	H	W	<b>Freshmen Seminar: Women of Epic Fame in Literature and Drama, 800 BCE-1650 CE</b> <i>Patton, Elizabeth</i> From Homer's Odyssey to Shakespeare's Antony and Cleopatra, powerful women who achieve their ends by working from within the system are often overlooked or not fully explored. Our readings and discussions will foreground these women of fiction, while we also consider the social conditions of their living contemporaries. Readings will include: Homer's Odyssey (Penelope); Virgil's Aeneid (Dido); Dante's Inferno (Beatrice); Milton's Paradise Lost (Eve), and several accounts of Cleopatra in plays by Shakespeare and his contemporary women writers. Cross listed with Theater Arts, Writing Seminars, and WGS.	3.00	12	TTh 10:30-11:45AM		Freshmen Only			
AS.300.317	01	H	W	<b>Russian Novel</b> <i>Eakin Moss, Anne</i>	3.00	20	TTh 3:00-4:15PM					



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				Russian authors began writing novels in the shadow of counterparts in Western Europe, and thus had the chance to experiment with the form and scope of genres and themes they found in European literature: Alexander Pushkin's novel in verse Eugene Onegin pays homage to Byron's Don Juan and satirizes Richardson's Pamela; Mikhail Lermontov's nested stories A Hero of Our Time owes a debt to Romantic and gothic fiction, and Nikolai Gogol's Dead Souls brings Dante's Inferno to the Russian provinces. From these literary forefathers emerged the likes of Feodor Dostoevsky and Leo Tolstoy, who made a lasting impact on world literature with their psychological and philosophical novels. This course examines the Russian novel in its historical and cultural context alongside contributions of Russian literary criticism in defining novel form and genre.								
AS.300.327	01	H	W	<b>Antigone: All the World's a Stage</b>	3.00	12	MW 12:00-1:15PM					
				<i>Jerr, Nicole</i> Best known from Sophocles' plays, Antigone - with her fierce familial loyalty and religious piety, her opposition to the law, and her willingness to sacrifice herself and her future marriage - has held a special fascination for modern and contemporary thinkers, showing up not only in theatrical (re)productions, but also as an exemplary figure for philosophers, political and psychoanalytic theorists, feminist thinkers, and novelists. What is more, her influence has not been limited to the Western tradition, for she has been reconceived on stages all over the world: Europe, the Americas, Asia, and Africa. Tracing key moments of the reception of Antigone from the nineteenth-century to the present, this course will explore what it is about Antigone that has proven so irresistible to playwrights and thinkers with a wide variety of political and aesthetic commitments. Giving particular attention to performances of Antigone around the globe, we will address how these versions negotiate the stakes of adaptation.								
AS.300.335	01	H	W	<b>Victorian Literature as World Literature</b>	3.00	20	TTh 9:00-10:15AM					

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				<i>Lecourt, Sebastian</i> What does it mean to read literature in a global context? How are literary texts that we think of as products of distinct national cultures plugged into larger global systems – even if they seem unaware of it? In this course we'll consider these questions through sustained readings of major Victorian literary texts such as Bram Stoker's <i>Dracula</i> (1897) and Charles Dickens's <i>Great Expectations</i> (1861). We will retrace how these books exercised cultural influence beyond the borders of Great Britain; how networks of trade, tourism, and imperial power brought authors from different cultures into contact with one another; and how Victorian texts have become a part of our culture in unexpected ways. Other primary texts may include Arthur Conan Doyle's <i>The Sign of Four</i> (1890), the poetry of Romesh Chunder Dutt, and first-hand accounts of Oscar Wilde's 1882 American lecture tour; critical readings will cover postcolonial theory, media theory, and histories of colonialism and urbanization.								
AS.300.345	01	H		<b>Madness Interpreted – The Schreber Case and its Many Readings</b> <i>Ophir, Orna</i>	3.00	15	F 1:30-4:00PM					



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AS.300.346	01	H		<b>Forms of Moral Community: The Contemporary World Novel</b> <i>Ong, Yi-Ping</i> Literary and philosophical imaginations of moral community in the post-WWII period (1950-2001). Texts include: Coetzee, Disgrace; McEwan, Atonement; Achebe, Things Fall Apart; Ishiguro, An Artist of the Floating World; Roy, The God of Small Things; Lessing, The Grass is Singing; Mistry, A Fine Balance; Morrison, Beloved; and essays by Levi, Strawson, Adorno, Murdoch, Beauvoir and Barthes on the deep uncertainty over moral community after the crisis of World War II. Close attention to novelistic style and narrative will inform our study of the philosophical questions that animate these works. What does it mean to acknowledge another person's humanity? Who are the members of a moral community? Why do we hold one another responsible for our actions? How do fundamental moral emotions such as contempt, humiliation, compassion, gratitude, forgiveness, and regret reveal the limits of a moral community? Cross listed with English.	3.00	20	M 1:30-4:00PM					
AS.300.349	01	H		<b>Capitalism and Tragedy: from the 18th Century to Climate Change</b> <i>Lisi, Leonardo</i> In contemporary discussions of climate change it is an increasingly prevalent view that capitalism will lead to the destruction of civilization as we know it. The notion that capitalism is hostile to what makes human life worth living, however, is one that stretches back at least to the early eighteenth century. In this class we will examine key moments in the history of this idea in works of literature, philosophy, and politics, from the birth of bourgeois tragedy in the 1720s, through topics such as imperialism and economic exploitation, to the current prospects of our ecological future. Authors to be studied will include: Lillo, Büchner, Balzac, Dickens, Marx and Engels, Ibsen, Weber, Conrad, Brecht, Miller, Steinbeck, as well as contemporary fiction, politics, and philosophy on climate change. Cross listed with English.	3.00	15	Th 1:30-4:00PM					

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AS.300.353	01	H	W	<b>Present Mirth: Stages of Comedy</b> <i>Macksey, Richard A; Mehrgan, Omid</i> A comparative survey of presentational comedies from Aristophanes to Beckett on stage and screen, with some attention to to the vexed question of theories of comedy [no laughing matter].	3.00	12	Th 5:00-7:30PM	Please email Marva Philip at mphilip@jhu.edu for class location.				
AS.300.363	01	H	W	<b>Reading Judith Shakespeare: poetry and drama by women writers in Elizabethan England (ca 1558-1650)</b> <i>Patton, Elizabeth</i> Virginia Woolf's account of the thwarted career of Shakespeare's hypothetical sister, Judith (in <i>A Room of One's Own</i> ) frames our reading of plays and poetry by Shakespeare and contemporary women writers, including Isabella Whitney, Elizabeth Cary, Mary Sidney, Aemelia Lanyer, Mary Wroth, and others. Students will create fictional biographies of "Judith Shakespeare" and her literary accomplishments. Cross listed with English, Theater Arts, Writing Seminars, and WGS.	3.00	12	T 1:30-4:00PM					
AS.300.417	01	H		<b>Psychoanalysis, The Second Generation – The Controversial Discussions</b> <i>Ophir, Orna</i>	3.00	15	T 4:00-6:30PM					

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				<p>With its forced dissemination after the Anschluss in 1938, psychoanalysis shifted its center of gravity from Vienna to London creating "a new kind of diaspora." After Freud's death, the efforts to protect his legacy while incorporating new findings and novel theories to the main body of his work prompted a series of "scientific meetings" known also as the "unusual business meetings" or as the "controversial discussions" within the British Psychoanalytic Society. Reading the minutes, reports, and papers presented during the four years of these discussions (1941-1945), students will be exposed to the important intellectual contributions that led not only to a thorough exploration of major psychoanalytic theories and concepts such as unconscious phantasy, regression, the death instinct, and the infant's emotional life, but also to the ways these controversial innovations shaped methods and preoccupations of post-war psychoanalysis.</p> <p>Readings will include: Anna Freud, Klein, Winnicott, Isaccs, Strachey, Glover among others. Cross listed with History.</p>									
AS.300.419	01	H		<p><b>1966 before and after: French theory</b> <i>Ender, Evelyne</i></p> <p>The "Languages of Criticism" conference held at Hopkins marked a watershed moment in the history of literary studies and redefined, for many scholars and intellectuals, the nature of humanistic inquiries. This course involves the close study of key texts that, from the postwar years into 1970s (from Bachelard, Poulet, and Starobinski to Lacan, Barthes, and Derrida), are landmarks in this changing critical and philosophical landscape. Knowledge of French is desirable but not required.</p>	3.00	12	M 1:30-4:00PM						
AS.371.140	01	H		<p><b>Cartooning</b> <i>Chalkley, Thomas</i></p>	3.00	15	M 1:30-4:20PM					Y	







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## Humanities Center

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AS.371.303	01	H		<b>Documentary Photography</b> <i>Berger, Phyllis A</i> 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. Attendance at first class is mandatory. No need to email for approval.	3.00	10	W 2:00-4:50PM					Y
AS.371.303	02	H		<b>Documentary Photography</b>	3.00	10	F 2:00-4:50PM					Y

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## Interdepartmental

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AS.360.331	01	S		<b>Methods for Policy Research</b> <i>Morgan, Barbara Anne</i> This course will introduce students to quantitative methods for studying social policy problems. Topics to be covered include descriptive statistics and sampling, correlation and causation, simple and multiple regression, experimental methods, and an introduction to cost-benefit analysis. The emphasis will be on the selection, interpretation and practical application of these methodologies in specific policy settings, rather than with formal proofs. Skills will be reinforced by hands-on exercises using statistical software. Over the course of the semester, students will critically analyze policy reports and empirical research in a range of policy areas and learn how to present this research to a non-specialist audience. Finally, we will discuss the pros and cons of quantitative vs. qualitative methodologies. The course will conclude with group presentations that draw on all these skills. Enrollment restricted to Social Policy minors only.	3.00	15	Th 4:00-6:00PM	Will meet in Mergenthaler 537.	Z Minor Social Policy			
AS.360.333	01	S		<b>Writing Seminar/Proseminar on Washington Policy and Politics</b> <i>Longman, Phillip</i> In this seminar students will learn how to communicate effectively in the public policy world. Students will summarize and critically evaluate technical and non-technical writing; complete writing assignments including policy briefs, op-eds, and grant proposals; and give oral presentations and speeches designed to appeal to different audiences. Restricted to DC Social Policy students only.	3.00	7	W 5:30-8:00PM					

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AS.360.334	01	S		<b>Making Social Change</b> <i>Strom, Shayna</i> This course will explore the complicated ways that social changes with implications for inequality and poverty alleviation happen. The course will be taught from the point of view of advocates trying to produce such change, with particular attention to the obstacles they have to work through and the strategies that have been developed in the past.	1.50	7	Th 5:30-8:00PM	Restricted to DC Social Policy students only.				
AS.360.335	01	S		<b>The Causes of Inequality</b> <i>Teles, Steven Michael</i> What explains inequality? Why are some poor, while others are so wealthy? How is status and wealth transferred inter-generationally? To what degree is inequality a consequence of the attributes and skills of individuals, as compared to structural features of the societies in which they are embedded? This course will approach this problem cross-temporally and cross-nationally, using tools from economics, sociology, history, and political science.	1.50	7	F 9:30AM-12:00PM	Restricted to DC Social Policy students only.				
AS.360.336	01	S		<b>Implementation and its Challenges I &amp; II</b> <i>Doar, Robert; Teles, Steven Michael</i> Implementation is the "sharp end of the spear" of social policy—the place where programs either do or do not work as intended. This course will introduce students to the complex challenges of implementation through an innovative pedagogical strategy, which combines academic and practical exposure to the issues involved with making programs work on the ground. In the morning, we will expose students to the theoretical and conceptual theoretical issues involved in social policy implementation (with historical illustrations), with a significant focus on the organizational challenges of coordinating complex governmental undertakings.	3.00	7	F 9:30AM-4:00PM	Restricted to DC Social Policy students only.				
AS.360.337	01	S		<b>Economic Perspectives on Social Policy</b> <i>Baker, Dean</i>	1.50	7	Th 5:30-8:00PM					



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AS.130.170	01	H		<b>Diplomacy and Conflict in the Ancient Middle East</b> <i>Lauinger, Jacob</i> The Middle East is home to the invention of agriculture, cities, and writing. It is also in the Middle East that we find evidence of humanity's earliest diplomatic activity in, for instance, the actual letters sent by ancient kings to one another, the treaties drawn up after their conflicts, and the inscriptions that commemorate their conquests. In this course, we examine texts such as these to explore questions such as: How do we characterize the international system of the ancient Middle East? Does this system change over the approximately two millennia for which we have documentation? Is it better to approach ancient diplomacy through present-day eyes or in the context of ancient world-views? Is an understanding of diplomacy in the ancient Middle East relevant to our understanding of modern international relations? All texts read in translation.	3.00	100	MW 12:00-1:15PM					
AS.180.242	01	S		<b>International Monetary Economics</b>  Balance of payments concepts and the trade balance, exchange rates and the foreign exchange market, expectations, interest rates and capital flows, central banking and monetary policy in open economies, exchange rate regimes and macroeconomic policy. Formerly AS.180.342	3.00	125	TTh 12:00-1:30PM				AS.180.102; AS.180.101	

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AS.180.266	01	S		<b>Financial Markets and Institutions</b>  <i>Faust, Jon</i> Understanding design and functioning of financial markets and institutions, connecting theoretical foundations and real-world applications and cases. Basic principles of asymmetric information problems, management of risk. Money, bond, and equity markets; investment banking, security brokers, and venture capital firms; structure, competition, and regulation of commercial banks. Importance of electronic technology on financial systems.	3.00	125	TTh 10:30-11:45AM				AS.180.101 AND AS.180.102	
AS.180.351	01	S		<b>Labor Economics</b>  <i>Takahashi, Yuya</i> The course discusses various issues in labor markets from the perspective of economic theory. We first study the major forces at work that shape labor market behavior; firms' labor demand and workers' labor supply. Then we discuss the equilibrium behavior of employment and wages. Using these tools, we also cover various applied topics in labor economics, such as minimum wage regulations, male-female wage differentials, human capital investment, worker mobility, and unemployment.	3.00	50	TTh 12:00-1:15PM	Prereq: AS.180.301			Prereq: AS.180.301	
AS.180.389	01	S		<b>Social Policy Implications of Behavioral Economics</b>  <i>Papageorge, Nick W</i>	3.00	25	TTh 9:00-10:15AM					

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				<p>Economists increasingly incorporate insights from psychology into models of rational decision-making. Known as "behavioral economics", this line of research considers how, for example, emotions, rules-of-thumb, biased beliefs and time-inconsistent preferences influence how we make choices. Behavioral economics increasingly pervades policy discussions on topics as diverse as: obesity, the role of media, subprime mortgages and voting patterns. Behavioral models are certainly novel, but do they help us to design superior social policies? With the goal of preparing students to address this question, this course (1) provides a thorough overview of the main contributions of behavioral economics, highlighting departures from more traditional economic models and (2) emphasizes how behavioral economic models might (or might not) improve how we think about social policy.</p>							<p>Prereqs:                      AS.180.301 AND                      AS.180.334 or                      knowledge of                      statistical                      analysis up to the                      level of multi-                      variate                      regression.</p>	
AS.190.102	01	S		<b>Introduction To Comparative Politics</b>	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM					
				<p><i>Jabko, Nicolas</i>                      To understand politics, the sound bites of the modern media take us only so far. In this course, we will take a step back and implement an intellectually rigorous method. Scholars of comparative politics use the method of comparison in order to illuminate important political phenomena of our times. Following this method, we will embark on a scholarly tour of the world and compare the politics of various countries. We will also trace these politics back to their historical sources. We will work from the assumption that there is something to be gained from such comparisons across space and time.</p>							<p>Freshmen seats held 10;                      Seats for All ASEN students 10</p>	
AS.190.102	02	S		<b>Introduction To Comparative Politics</b>	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM					





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				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.						Freshmen seats held 5; Seats for All ASEN students 15		
AS.190.226	02	S		<b>Global Governance</b>	3.00	20	MW 9:00-9:50AM; F 9:00-9:50AM					
AS.190.226	03	S		<b>Global Governance</b>	3.00	20	MW 9:00-9:50AM; F 10:00-10:50AM					
AS.190.226	04	S		<b>Global Governance</b>	3.00	20	MW 9:00-9:50AM; F 10:00-10:50AM					

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AS.190.301	01	S	W	<b>Global Political Economy</b>  <i>Marlin-Bennett, Renee</i> Examines the intersection of politics and economics in global affairs. Focuses on theoretical approaches to global political economy; institutions of governance of the global political economy; flows of goods, services, capital, and information; and transborder problems. Recommended Course Background: AS.190.209	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM	Not open if you have previously taken AS.190.216.			Not open if you have previously taken AS.190.216.	
AS.190.301	02	S	W	<b>Global Political Economy</b>	3.00	20	MW 10:00-10:50AM; F 9:00-9:50AM					
AS.190.329	01	S		<b>National Security-Nuclear Age</b>  <i>David, Steven R</i> This course examines the impact of weapons of mass destruction on international politics with an emphasis on security issues. The first half of the course focuses on the history of nuclear weapons development during the Cold War and theories of deterrence. The second half of the class considers contemporary issues including terrorism, chemical and biological weapons, ballistic missile defense and proliferation. Requirements include a midterm, final and a ten page paper.	3.00	20	TTh 10:30-11:45AM					
AS.190.398	01	S	W	<b>Politics Of Good &amp; Evil</b> <i>Connolly, William E</i>	3.00	15	M 1:30-3:50PM					

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				<p>The politics of good and evil places a set of classic myths into conversation with recent philosophical and political work on good and evil. The classic myths include the Book of Job, Genesis (J version) two dramas by Sophocles, a reading from Augustine, and Voltaire's Candide. Texts by Nietzsche, William James and an essay by me are then placed into conversation with both each other and those classic texts. This class is organized around "elemental theory" in which diverse existential stories jostle and disturb each other. Previous work in theory is highly recommended. A class presentation, two 12 page papers, extensive class discussion.</p>								
AS.190.438	01	S		<p><b>Violence and Politics</b> <i>Ginsberg, Benjamin</i></p> <p>This seminar will address the role of violence—both domestic and international—in political life. Though most claim to abhor violence, since the advent of recorded history, violence and politics have been intimately related. States practice violence against internal and external foes. Political dissidents engage in violence against states. Competing political forces inflict violence upon one another. Writing in 1924, Winston Churchill declared—and not without reason—that, "The story of the human race is war." Indeed, violence and the threat of violence are the most potent forces in political life. It is, to be sure, often averred that problems can never truly be solved by the use of force. Violence, the saying goes, is not the answer. This adage certainly appeals to our moral sensibilities. But whether or not violence is the answer presumably depends upon the question being asked. For better or worse, it is violence that usually provides the most definitive answers to three of the major questions of political life--statehood, territoriality and power. Violent struggle, in the form of war, revolution, civil war, terrorism and the like, more than any other immediate factor, determines what states will exist and their relative power, what territories they will occupy, and which groups will and will not exercise power within them.</p>	3.00	20	W 1:30-3:50PM					
AS.211.380	01	H		<p><b>Modern Latin American Culture</b></p>	3.00	17	MW 4:30-5:45PM					



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				Why do billions of people continue to suffer from poverty? Who is most likely to change this situation, what strategies should they follow, what kinds of institutions should they put into place, and what kinds of obstacles stand in the way? This course will introduce the main theoretical perspectives, debates, and themes in the field of international development since the mid-20th century. It has three sections. The first section focuses on debates about the optimal conditions and strategies for generating economic growth and on the relationship between growth, inequality, and human welfare. The second section presents micro-level assessments of various development interventions. The third section considers the role of civil society and political movements in shaping development and social change in the 21st century. Freshmen and sophomores only.					Freshmen Only; Sophomores Only	Freshmen seats held 15; Sophomores seats held 15		
AS.230.325	01	S		<b>Global Social Change and Development Practicum</b> <i>Silver, Beverly Judith</i> This course provides "hands on" research experience in the field of global social change and development. Students will participate in a collaborative research project analyzing the causes and consequences of the recent upsurge of protest around the world in comparison with previous historical waves of social unrest. The course fulfills the "research practicum" requirement for Sociology majors and is required for the GSCD track.	3.00	15	T 4:30-7:00PM				Prereq: AS.230.265 or permission of Instructor.	
AS.230.346	01	S		<b>Economic Sociology of Latin America</b> <i>von der Heydt-Coca, Magda Zonia</i>	3.00	19	TTh 12:00-1:15PM					



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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<p>This course explores the historical origins and development of the modern global political order based on sovereign nation-states, the crisis of this order through the twentieth century, as well as the unraveling of this order at the turn of the twenty-first century. We will focus on how dominant political organizations in the changing world order (such as states, political parties, and transnational governing bodies) have been shaped by different social forces (such as classes and ethnic groups) and vice versa. Topics covered include rise and fall of modern nationalism, formation of regional and global governing structures, "civilizational" turn of global politics, waves of separatism and redrawing of nation's boundaries after the Cold War, politics of immigration and citizenship, among others.</p>								
AS.230.435	01	S	W	<b>The China Boom</b> <i>Hung, Ho-Fung</i>	3.00	15	MW 4:30-5:45PM					
				<p>This course addresses the origins, global impacts, and demise of China's economic ascendancy as a world economic and political powerhouse at the turn of the twenty-first century. The course will cover the historical origins of the China boom and impacts of the boom on global political economic order. It will also address the social-political imbalances within China that contribute to the global financial crisis and recent slowdown of the Chinese economy. Particular topics include late imperial and Maoist legacies' relation to contemporary economic growth, stages of China's capitalist development, China's outward investment in the developing world, formation and limits of US-China economic symbiosis, and China's participation in global governance, among others.</p>								
AS.271.360	01	N		<b>Climate Change: Science &amp; Policy</b> <i>Waugh, Darryn; Zaitchik, Benjamin</i>	3.00	50	TTh 10:30-11:45AM					

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				Prereq: 270.103 or permission of instructor. This course will investigate the policy and scientific debate over global warming. It will review the current state of scientific knowledge about climate change, examine the potential impacts and implications of climate change, explore our options for responding to climate change, and discuss the present political debate over global warming.								
AS.271.403	01	S		<b>Environmental Policymaking and Policy Analysis</b> <i>Serassio, Helen Leanne; Solomon, Rhey M</i> This course provides students with a broad introduction to US environmental policymaking and policy analysis. Included are a historical perspective as well as an analysis of future policymaking strategies. Students examine the political and legal framework, become familiar with precedent-setting statutes such as NEPA, RCRA, and the Clean Air and Clean Water Acts, and study models for environmental policy analysis. Cost benefit studies, the limits of science in policymaking, and the impact of environmental policies on society are important aspects of this course. A comparison of national and international policymaking is designed to provide students with the proper perspective. This course is taught in conjunction with an identical graduate course. All students will be expected to perform at a graduate level.	3.00	10	Th 6:00-8:45PM		Juniors Only; Seniors Only; Z Major Global Environmental Change and Sustainability			
AS.361.130	01	HS		<b>Introduction to Latin American Studies</b> <i>Gonzalez, Eduardo; Paquette, Gabriel</i> This course provides an introduction to the study of Latin American cultures and societies from the vantage point of city life and urban representation. We will engage literatures from a variety of disciplines to discuss how issues such as modernization and urbanization processes; tradition, identity and ethnicity; class, marginality and urban social movements; gender and the changing status of women; arts and literature are experienced and represented in the Latin American urban environments.	3.00	20	W 1:30-4:00PM					



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## Jewish Studies Program

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.100.315	01	HS		<b>Jewish Political Thought and Social Imagination, 1880-1940</b> <i>Moss, Kenneth</i> How a range of Jewish thinkers, activists, and creative writers grappled intellectually with the challenge of the nation-state, the rise and collapse of empires, antisemitism as a political phenomenon, the nature of politics and political action, the nature of modern societies, and the question of Jewish self-determination and sovereignty, 1880-1940. Readings by Herzl, Bernard Lazare, Freud, Kafka, Leshtshinsky, Arendt, Adorno, Michael Chabon, among others.	3.00	20	W 1:30-3:50PM					
AS.100.345	01	HS	W	<b>Religion, Secularity, and Nationhood in Modern Jewish Identity Politics</b> <i>Moss, Kenneth</i> How have ethnonational, religious, and secular forms of self-definition played out in Jewish life over the past hundred years, and what sorts of relationships are taking shape between them now? Particular foci include: religious revival in Israel and the fate of Zionism's ostensibly secular nationalist project in comparative perspective (Ravitzky, Walzer, Friedland); the surprising flourishing of kabbalistic/mystical thought in contemporary Jewish life (Garb); varieties of secular and religious visions of Jewish collective identity (Ohana, Lustick); new and resurgent forms of Judaism in the US; religion and gender (Fader), among other topics. Time at end of semester for independent reading and research.	3.00	20	M 1:30-3:50PM					
AS.130.302	01	H		<b>History: Ancient Syria-Palestine II</b> <i>McCarter, P Kyle, Jr.</i> A survey of the history of Ancient Syria and Cannan, including ancient Israel. Taught with AS.134.661. Cross-listed with Jewish Studies.	3.00	25	MW 12:00-1:15PM					
AS.130.352	01	H		<b>History of Hasidism</b> <i>Katz, David</i>	3.00	50	TTh 9:00-10:15AM					



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				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.								
AS.193.305	01			<b>The Emergence of Israel</b> <i>Staff</i>	3.00	15	M 1:30-3:50PM					
				Is there a single unified story of the emergence of the State of Israel? In this seminar we will trace the origins of contemporary Israel's diverse society, discover the plurality and diversity of that society's stories about itself, and discover some of the roots of its conflicted multiculturalism through a critical reading of texts ranging from works of utopian social and political radicalism to expressions of national-religious messianism. All texts in English translation.								
AS.210.164	01	H		<b>Elementary Yiddish II</b> <i>Caplan, Beatrice</i>	3.00	12	TTh 9:00-10:15AM					

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				Year-long course that 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. Recommended Course Background: AS.210.163 or instructor permission.								
AS.210.373	01	H		<b>Guided Readings in Yiddish</b> <i>Caplan, Beatrice</i> This course will allow students with advanced Yiddish language skills to design their own reading list, in consultation with the instructor, in order to deepen their understanding of an area of Yiddish culture of special interest while at the same time continuing to improve their language skills. Texts may include literary works, scholarship, the press, and archival materials. All discussion and written responses will be in Yiddish.	3.00	12	TTh 1:30-2:45PM					Y

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.213.361	01	H		<b>The Holocaust in Film and Literature</b>  <i>Spinner, Samuel Jacob</i> How has the Holocaust been represented in literature and film? Are there special challenges posed by genocide to the traditions of visual and literary representation? Where does the Holocaust fit in to the array of concerns that the visual arts and literature express? And where do art and literature fit in to the commemoration of communal tragedy and the working through of individual trauma entailed by thinking about and representing the Holocaust? These questions will guide our consideration of a range of texts — nonfiction, novels, poetry — in Yiddish, German, English, French and other languages (including works by Elie Wiesel, Primo Levi, and Isaac Bashevis Singer), as well as films from French documentaries to Hollywood blockbusters (including films by Alain Resnais, Claude Lanzmann, and Quentin Tarantino). All readings in English.	3.00	20	MW 12:00-1:15PM					
AS.216.300	01	H		<b>Contemporary Israeli Poetry</b> <i>Stahl, Neta</i> This course examines the works of major Israeli poets such as Yehuda Amichai, Nathan Zach, Dalia Rabikovitch, Erez Biton, Roni Somek, Dan Pagis, Yona Wollach, Yair Horwitz, Maya Bejerano, and Yitzhak Laor. Against the background of the poetry of these famous poets we will study recent developments and trends in Israeli poetry, including less known figures such as Mois Benarroch, Shva Salhoov and Almog Behar. Through close reading of the poems, the course will trace the unique style and aesthetic of each poet, and will aim at presenting a wide picture of contemporary Hebrew poetry.	3.00	15	T 1:30-4:00PM				Students may receive credit for AS.216.300 or AS.300.413, but not both.	
AS.216.342	01	H	W	<b>The Holocaust in Israeli Society and Culture</b>  <i>Stahl, Neta</i>	3.00	15	TTh 12:00-1:15PM					

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## Jewish Studies Program

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				This course examines the role of the Holocaust in Israeli society and culture. We will study the emergence of the discourse of the Holocaust in Israel and its development throughout the years. Through focusing on literary, artistic and cinematic responses to the Holocaust, we will analyze the impact of its memory on the nation, its politics and its self-perception.								
AS.216.398	01	H		<b>Zionism: Literature, Film, Thought</b>	3.00	15	TTh 10:30-11:45AM					
				<i>Stahl, Neta</i> This course studies the relation between Israeli culture and Zionism. Based on a close reading of both literary and non-literary Zionist texts, we will explore the thematic, social and political aspects of the Zionist movement. The course focuses on primary sources and its main goal is to familiarize students with the history of Zionism and its influence on Israeli culture. In the last part of the semester we will investigate the different meanings of Post-Zionism through contemporary literary and non-literary texts as well as recent Israeli films. Students wishing to do additional work in Hebrew should enroll in section 2 where students will meet for an additional hour at a time TBD and will earn 4 credits for the course.							Students may receive credit for AS.216.398 or AS.300.398, but not both.	
AS.216.398	02	H		<b>Zionism: Literature, Film, Thought</b>	4.00	5	TTh 10:30-11:45AM					
				<i>Cohen, Zvi; Stahl, Neta</i>								
AS.376.317	01	HS	W	<b>Jewish Music</b>	3.00	20	Th 1:30-3:50PM					
				<i>Walden, Joshua</i> What is "Jewish music," and what roles has it played in global and Jewish cultures? This course will address these questions, considering genres and contexts of Jewish music from cantillation to klezmer and from art music to Yiddish cinema. Cross listed with Jewish Studies								
AS.384.116	01			<b>First Year Modern Hebrew II</b>	4.00	16	TBA					

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## Jewish Studies Program

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				<i>Cohen, Zvi</i> 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.384.115	
AS.384.216	01	H		<b>Second Year Modern Hebrew II</b> <i>Cohen, Zvi</i> Designed to enrich vocabulary and provide intensive grammatical review, and enhance fluency in reading, writing and comprehension. Recommended Course Background: AS.384.215 or permission required.	4.00	16	TBA				AS.384.215	
AS.384.316	01	H		<b>Third Year Modern Hebrew II</b> Designed to: maximize comprehension and the spoken language through literary and newspaper excerpts providing the student with the language of an educated Israeli. Recommended Course Background: AS.384.315 or permission required. Cross-listed with Jewish Studies.	4.00	16	TBA				AS.384.315	

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## Mathematics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.110.106	01	Q		<b>Calculus I</b>  <i>Zhu, Jiuyi</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 1:30-2:20PM					
AS.110.106	02	Q		<b>Calculus I</b>	4.00	30	MWF 10:00-10:50AM; Th 3:00-3:50PM					
AS.110.106	03	Q		<b>Calculus I</b>	4.00	30	MWF 10:00-10:50AM; Th 4:30-5:20PM					
AS.110.107	01	Q		<b>Calculus II (For Biological and Social Science)</b>  <i>Dodson, Benjamin</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 1:30-2:20PM					
AS.110.107	02	Q		<b>Calculus II (For Biological and Social Science)</b>	4.00	30	MWF 10:00-10:50AM; T 3:00-3:50PM					
AS.110.107	03	Q		<b>Calculus II (For Biological and Social Science)</b>	4.00	30	MWF 10:00-10:50AM; Th 3:00-3:50PM					





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AS.110.109	02	Q		<b>Calculus II (For Physical Sciences and Engineering)</b>	4.00	30	MWF 10:00-10:50AM; T 4:30-5:20PM					
AS.110.109	03	Q		<b>Calculus II (For Physical Sciences and Engineering)</b>	4.00	30	MWF 10:00-10:50AM; Th 1:30-2:20PM					
AS.110.109	04	Q		<b>Calculus II (For Physical Sciences and Engineering)</b>	4.00	30	MWF 10:00-10:50AM; Th 3:00-3:50PM					
AS.110.109	05	Q		<b>Calculus II (For Physical Sciences and Engineering)</b>	4.00	30	MWF 10:00-10:50AM; T 1:30-2:20PM					
AS.110.201	01	Q		<b>Linear Algebra</b>  <i>Di Matteo, Giovanni</i> 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 3:00-3:50PM				Grade of C- or better in 110.107 or 110.109 or 110.113, or a 5 on the AP BC exam.	
AS.110.201	02	Q		<b>Linear Algebra</b>	4.00	30	MWF 10:00-10:50AM; T 4:30-5:20PM					
AS.110.201	03	Q		<b>Linear Algebra</b>	4.00	30	MWF 10:00-10:50AM; Th 1:30-2:20PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.110.201	04	Q		<b>Linear Algebra</b>	4.00	30	MWF 10:00-10:50AM; Th 3:00-3:50PM					
AS.110.201	05	Q		<b>Linear Algebra</b>	4.00	30	MWF 11:00-11:50AM; T 1:30-2:20PM					
AS.110.201	06	Q		<b>Linear Algebra</b>	4.00	30	MWF 11:00-11:50AM; T 3:00-3:50PM					
AS.110.201	07	Q		<b>Linear Algebra</b>	4.00	30	MWF 11:00-11:50AM; Th 3:00-3:50PM					
AS.110.201	08	Q		<b>Linear Algebra</b>	4.00	30	MWF 11:00-11:50AM; Th 4:30-5:20PM					
AS.110.202	01	Q		<b>Calculus III</b>	4.00	30	MWF 11:00-11:50AM; T 1:30-2:20PM					
				<i>Pingali, Vamsi</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.				Prereq: 110.107, 110.109 or 110.113, or a 5 or better on the AP BC exam.			Grade of C- or better in AS.110.107 OR AS.110.109 OR AS.110.113, or a 5 or better on the AP BC exam.	
AS.110.202	02	Q		<b>Calculus III</b>	4.00	30	MWF 11:00-11:50AM; T 3:00-3:50PM					

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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 12:00-12:50PM; T 4:30-5:20PM					
AS.110.202	06	Q		Calculus III	4.00	30	MWF 12:00-12:50PM; Th 1:30-2:20PM					
AS.110.202	07	Q		Calculus III	4.00	30	MWF 12:00-12:50PM; Th 3:00-3:50PM					
AS.110.202	08	Q		Calculus III	4.00	30	MWF 12:00-12:50PM; T 3:00-3:50PM					
AS.110.211	01	Q		<b>Honors Multivariable Calculus</b>	4.00	35	MW 12:00-1:15PM; F 12:00-12:50PM					
				<i>Zhang, Yingying</i> This course includes the material in AS.110.202 with some additional applications and theory. Recommended for mathematically able students majoring in physical science, engineering, or especially mathematics. AS.110.211-AS.110.212 used to be an integrated yearlong course, but now the two are independent courses and can be taken in either order.							Pre/Co-Requisite: 110.201 or 110.212	

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AS.110.212	01	Q		<b>Honors Linear Algebra</b>  <i>Zucker, Steven</i> This course includes the material in AS.110.201 with some additional applications and theory. Recommended for mathematically able students majoring in physical science, engineering, or mathematics. AS.110.211-AS.110.212 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	45	MW 1:30-2:45PM; F 1:30-2:20PM				Grade of B+ or better in 110.107 or 110.109 or 110.113, or a 5 on the AP BC exam.	
AS.110.302	01	Q		<b>Diff Equations/Applic</b>  <i>Sire, Yannick</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				Grade of C- or better in 110.107 or 110.109 or 110.113, or a 5 on the AP BC exam.	
AS.110.302	02	Q		<b>Diff Equations/Applic</b>	4.00	30	MWF 12:00-12:50PM; T 3:00-3:50PM					
AS.110.302	03	Q		<b>Diff Equations/Applic</b>	4.00	30	MWF 12:00-12:50PM; Th 3:00-3:50PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.110.302	04	Q		<b>Diff Equations/Applic</b>	4.00	30	MWF 1:30-2:20PM; T 4:30-5:20PM					
AS.110.302	05	Q		<b>Diff Equations/Applic</b>	4.00	30	MWF 1:30-2:20PM; Th 1:30-2:20PM					
AS.110.302	06	Q		<b>Diff Equations/Applic</b>	4.00	30	MWF 1:30-2:20PM; Th 3:00-3:50PM					
AS.110.304	01	Q		<b>Elementary Number Theory</b>  <i>Wilson, W Stephen</i> 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.	4.00	40	TTh 9:00-10:15AM				Grade of C- or better in 110.201 or 110.212	
AS.110.311	01	Q		<b>Complex Analysis</b>  <i>Martinez Garcia, Jesus</i> 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.	4.00	40	TTh 12:00-1:15PM				Grade of C- or better in 110.202 or 110.211	
AS.110.401	01	Q		<b>Advanced Algebra I</b>	4.00	30	MW 12:00-1:15PM; F 12:00-12:50PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<i>Zucker, Steven</i> 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.							Grade of C- or better in 110.201 or 110.212	
AS.110.402	01	Q		<b>Advanced Algebra II</b>	4.00	30	F 12:00-12:50PM; MW 12:00-1:15PM					
				<i>Kong, Jian</i> Splitting field of a polynomial, algebraic closure of a field. Galois theory: correspondence between subgroups and subfields. Solvability of polynomial equations by radicals.								
AS.110.405	01	Q		<b>Analysis I</b>	4.00	30	MW 1:30-2:45PM; F 1:30-2:20PM					
				<i>Smithling, Brian</i> 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.							Grade of C- or better in 110.201 or 110.212 and 110.202 or 110.211	

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.110.406	01	Q		<b>Analysis II</b>  <i>Zhang, Yingying</i> This course continues AS.110.405 with an emphasis on the fundamental notions of modern analysis. Sequences and series of functions, Fourier series, equicontinuity and the Arzela-Ascoli theorem, the Stone-Weierstrass theorem, functions of several variables, the inverse and implicit function theorems, introduction to the Lebesgue integral.	4.00		MW 1:30-2:45PM; F 1:30-2:20PM					
AS.110.413	01	Q		<b>Introduction to Topology</b>  <i>Wilson, W Stephen</i> Topological spaces, connectedness, compactness, quotient spaces, metric spaces, function spaces. An introduction to algebraic topology: covering spaces, the fundamental group, and other topics as time permits.	4.00	30	TTh 10:30-11:45AM				Grade of C- or better in 110.202 or 110.211	
AS.110.416	01	Q		<b>Honors Analysis II</b>  <i>Shiffman, Bernard</i> Lebesgue integration and differentiation. Elementary Hilbert and Banach space theory. Baire category theorem. Continuation of AS.110.415, introduction to real analysis.	4.00	30	MW 1:30-2:45PM; F 1:30-2:20PM				Grade of B+ or better in 110.405 or a grade of B- or better in 110.415 AND permission of the instructor.	
AS.110.421	01	Q		<b>Dynamical Systems</b>  <i>Brown, Richard</i> This is a course in the modern theory of Dynamical Systems. Topic include existence and uniqueness of general ODEs, nonlinear analysis and stability, including bifurcation theory and stable and center manifolds, smooth flows, limit sets, Hamiltonian mechanics, perturbation theory and structural stability.	4.00	35	TTh 3:00-4:15PM				Grade of C- or better in 110.201 or 110.212 OR 110.202 or 110.211 and 110.302	



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## Mathematics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.110.422	01	Q		<b>Representation Theory</b> <i>Merling, Mona</i> This course will focus on the basic theory of representations of finite groups in characteristic zero: Schur's Lemma, Mashcke's Theorem and complete reducibility, character tables and orthogonality, direct sums and tensor products. The main examples we will try to understand are the representation theory of the symmetric group and the general linear group over a finite field. If time permits, the theory of Brauer characters and modular representations will be introduced.	4.00	30	TTh 1:30-2:45PM				Prereqs: ( AS.110.201 OR AS.110.212 ) AND AS.110.401	
AS.110.439	01	Q		<b>Introduction To Differential Geometry</b> <i>Shiffman, Bernard</i> 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; theorema egregium; elementary global theorems.	4.00	30	TTh 1:30-2:45PM				Grade of C- or better in (AS.110.201 or AS.110.212) and (AS.110.202 or AS.100.211)	

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## Medicine, Science and the Humanities

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.010.403	01	H	W	<b>Art and Science in the Middle Ages</b> <i>Lakey, Christopher</i> This course investigates the intersections of art and science from the Carolingian period through the fourteenth century and the historical role images played in the pursuit of epistemic truths. Science – from the Latin scientia, or knowledge – in the Middle Ages included a broad range of intellectual pursuits into both the supernatural and natural worlds, and scholars have classified these pursuits in various ways (i.e. experimental or theoretical science, practical science, magic, and natural philosophy). A particular focus of this seminar will be placed on the assimilation of Greek and Islamic scientific advances in cartography, cosmology, and optical theory into the Latin theological tradition.	3.00	12	W 1:30-3:50PM					
AS.040.152	01	H		<b>Medical Terminology</b> <i>Smith, Joshua M</i> This course investigates the Greek and Latin roots of modern medical terminology, with additional focus on the history of ancient medicine and its role in the development of that terminology.	3.00	15	MW 10:00-10:50AM; F 10:00-10:50AM					
AS.040.152	02	H		<b>Medical Terminology</b>	3.00	15	MW 10:00-10:50AM; F 11:00-11:50AM					
AS.100.205	01	HS	W	<b>Freshman Seminar: Health, Healing, and Medicine in Africa</b> <i>Larson, Pier M</i> A freshman seminar introducing students to the history of health, healing, and forms of medical practice in Africa over the last two centuries.	3.00	16	W 2:30-4:50PM		Freshmen Only			
AS.100.381	01	HS	W	<b>Religion, Medicine, and the Mind in Japan</b> <i>Kim, Hayang</i>	3.00	12	T 1:30-3:50PM					

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Medicine, Science and the Humanities

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				This seminar explores the relationship between religion and medicine in treating disorders of the mind and soul throughout Japanese history. We will consider such topics as animal spirit possession, Buddhism, family-based care, psychotherapy, gender, and social withdrawal.								
AS.140.115	01	HS	W	<b>Freshman Seminar: Artificial Humans</b> <i>Frumer, Yulia</i> Looking at the history of attempts to augment or construct human beings, the course will explore the role of technology in molding human existence and shaping the definition of humanity.	3.00	14	T 1:30-3:50PM		Freshmen Only			
AS.140.146	01	HS		<b>History of Public Health in East Asia</b> <i>Hanson, Marta</i> This course examines the history of disease, epidemics, and public health responses in East Asia from the 17th-20th centuries. This public health history emphasizes the interactions, connections, and comparisons among China, Japan, Korea, and Taiwan.	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM			Freshmen seats held 5; Seats for All ASEN students 15		
AS.140.146	02	HS		<b>History of Public Health in East Asia</b>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM					
AS.140.146	03	HS		<b>History of Public Health in East Asia</b>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM					

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## Medicine, Science and the Humanities

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.140.302	01	HS		<b>Rise of Modern Science</b>  <i>Merzelis, Joris Hans Angele</i> Survey of major scientific advances from 18th to 20th century, from Newtonian science to the age of Big Science.	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM					
AS.140.302	02	HS		<b>Rise of Modern Science</b>	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM					
AS.140.357	01	HS	W	<b>Science Fiction Movies in the East and West</b> <i>Kim, Dong-won</i> What is a science fiction (SF) movie? How did SF movies and developments in science and technology influence each other during the twentieth century? What is the use of SF movies for societies? And why are SF movies much more popular in some countries than in others? By watching and analyzing classic and contemporary SF movies from the US, the Soviet Union, Japan, China, and other countries, we will search for answers to these questions. Special emphasis will be given to analyzing how historical, political, and cultural environments in different countries have influenced the production and acceptance of SF movies.	3.00	25	W 1:30-3:50PM					
AS.140.370	01	HS	W	<b>History of Mental Illness and Psychiatry in Modern West</b> <i>Staff</i> This course will be an introduction to the history of "madness" in modern Europe and America. In particular, it will examine the ideas that have shaped perceptions of madness, insanity, and mental illness; the changing experiences of those afflicted; the development of those professions designed to look after those deemed mad, insane, and mentally ill; and the social and cultural assumptions behind treatments, policies, and public opinions.	3.00	20	W 1:30-3:50PM					

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## Medicine, Science and the Humanities

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.140.390	01	HS		<b>Science and Technology in Latin America</b>  <i>Portuondo, Maria M</i> The course surveys the development of western science and technology in Hispanic America (1492 to the present). We begin studying the hybridization of scientific practices between European and Native American cultures during the early colonial era and end with the transfer of technologies and industrialization of the 20th century. We emphasize the role on science and technology in state formation, the acculturation of foreign ideas in colonial and postcolonial societies, and the role of intellectual elites in modernization programs.	3.00	20	TTh 10:30-11:45AM					
AS.145.330	01	HS		<b>Insomnia in Modern Literature, Philosophy, and Film</b>  <i>Krauss, Andrea B</i>	3.00	15	TTh 1:30-2:45PM					Y

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## Medicine, Science and the Humanities

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<p>Insomnia, while being defined and treated as a sleep disorder in the field of medical discourse, has attracted other kinds of interest, too. Philosophers and writers have been intrigued by insomnia since antiquity. From their perspectives, the capability of being sleepless not only distinguishes humankind from animals but testifies to human awareness in its ceaseless striving for wisdom and truth. Insomnia appears as vigilance, an exalted state of mind well suited for philosophic reflection, intense scrutiny of the world, and sudden inspiration. Yet these moments of sustained productivity are inextricably bound to insomnia's "dark" side, the fact that sleeplessness tortures the body and exhausts the mind, haunts the weary wakeful and makes him meditate on insomnia. Thus sleeplessness turns into an obsession with the potential to transform thinking into endless introspection, self-absorbed melancholy, if not misanthropic sarcasm. This course will examine representations of insomnia in modern philosophy, literature and film. We will analyze to what extent interpretations of sleeplessness in the humanities differ from those in medical and scientific discourse. Particular emphasis will be placed on the relationship between insomnia, subjectivity, thinking, and writing. Authors and films to be considered will include among others Emanuel Lévinas, Emil Cioran, Franz Kafka, Samuel Beckett, Ernest Hemingway, F. Scott Fitzgerald, Djuna Barnes, Gabriel García Márquez and <i>Insomnia</i> (2002; Christopher Nolan).</p>								
AS.363.420	01	H		<b>Stories of Hysteria</b> <i>Ender, Evelyne</i>	3.00	15	W 1:30-4:00PM					

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Medicine, Science and the Humanities

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
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Hysteria, an elusive and polymorphous disease associated with the female body, was first diagnosed in Greek Antiquity. When, in the late nineteenth-century, Sigmund Freud decided to study it, he made discoveries that shaped in a decisive way the new science of psychoanalysis and offered new foundations for discussions of what we might now call “psychosomatic illness.” Though rarely diagnosed nowadays, hysteria provides a fascinating introduction to medical, clinical, social, and ethical questions connected to gender that have lost none of their relevance. We will study fictional narratives from the 18th century to the present as if they were case-studies -- as a way of appraising hysteria’s changing and provocatively volatile definitions across time and in different cultural frameworks. Among our topics: trauma and PTSD, the concept of repression, masculinities, women and madness, and, above all, transformations in gender roles and identities in the modern era.

In addition to selected readings of medical and historical materials available on Blackboard, texts for study are: The Nun (Diderot), Trilby (du Maurier), Fragment of a Case of Hysteria (Freud), Regeneration (Barker), The Icarus Girl (Oyeyemi), Redeployment (Klay).

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## Military Science

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.374.102	01			<b>Introduction to Leadership II</b> <i>Buckhalt, Russell Allen; Graves, Rodney</i> Establishes a foundation of basic leadership fundamentals such as: problem solving, communications, effective writing, goal setting, improving speaking and listening skills, and an introduction to counseling. Freshmen only.	2.00	30	W 1:30-3:20PM					
AS.374.102	02			<b>Introduction to Leadership II</b>	2.00	30	Th 1:30-3:20PM					
AS.374.120	01			<b>Basic Leadership Laboratory II</b> <i>Buckhalt, Russell Allen; Graves, Rodney</i> Students learn and apply team echelon leadership at an entry level. They continue development of military courtesy, discipline, communication and basic Soldier skills. Ultimately, students understand how to operate in and lead 4-5 persons through a program of training opportunities in a variety of conditions. Freshmen only.	1.00	50	Th 4:00-5:50PM		Freshmen Only			
AS.374.202	01			<b>Leadership &amp; Teamwork II</b> <i>Graves, Rodney; O'Neil, Timothy</i> Class examines how to build effective teams, various methods for influencing action, effective communication in setting and achieving goals, decision-making, creativity in problem solving, and providing feedback. Recommended Course Background: AS.374.201 or permission required.	2.00	30	Th 1:30-3:20PM					
AS.374.202	02			<b>Leadership &amp; Teamwork II</b> <i>Buckhalt, Russell Allen; Graves, Rodney</i>	2.00	25	TBA					
AS.374.220	01			<b>Advanced Team Leadership</b> <i>Buckhalt, Russell Allen; Graves, Rodney</i>	1.00	50	Th 4:00-5:50PM					



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				Students perform duties of and develop their leadership, as team leaders during a variety of induced training opportunities. Continued emphasis is placed on troop-leading-procedures and simple problem solving. Students lead physical fitness training and mentor subordinates in military, academic and extra-curricular activities. Successful completion of advanced team leadership allows students to progress into ROTC Advanced Courses. Sophomores only.					Sophomores Only			
AS.374.302	01		W	<b>Leadership and Tactics</b> <i>Sime, Bart; Yi, David W.</i> Examines the role communications, values, and ethics play in effective leadership through application of principles in tactical scenarios. Emphasis is on improving written and oral communications skills and military tactics proficiency. ROTC cadets only. Corequisite: AS.374.320.	2.00	25	T 2:00-3:50PM				AS.374.301 in the Fall	
AS.374.302	02		W	<b>Leadership and Tactics</b>	2.00		TBA					
AS.374.307	01		W	<b>Leadership in Military History</b> <i>Buckhalt, Russell Allen; Normand, David</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. Requires permission of the Director of Military Science. Registration restricted to contracted ROTC cadets only.	2.00	20	Th 7:00-8:50AM					
AS.374.320	01			<b>Advanced Tactical Leadership</b> <i>Sime, Bart; Yi, David W.</i>	1.00	50	Th 3:00-5:50PM					

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## Military Science

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				Students further develop their leadership skills by directing and coordinating the efforts of 9-60 personnel on offensive, defensive and civil-support tactical-tasks. Develop written plans for garrison and field environments while supervising its execution. Ultimately, prepares students to excel at the four-week National Leadership Development and Assessment Course at Fort Lewis, WA. Permission required. Juniors only.					Juniors Only			
AS.374.402	01			<b>Adaptive Leadership/Professionalism</b> <i>Gorreck, Michael; Greenberg, William</i> Study includes practical exercises on establishing an ethical command climate and developing values required of a professional officer. Students apply their leadership skills in the ROTC battalion and prepare for commissioning. Corequisite: AS.374.002. ROTC cadets only.	2.00	20	T 5:00-6:50PM					
AS.374.407	01			<b>Being a Platoon Leader</b> <i>Gorreck, Michael; Stambone, Glen Andrew</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 prerequisite 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	T 6:00-10:00PM	Meets every other Tuesday				
AS.374.420	01			<b>Advanced Organizational Planning</b> <i>Gorreck, Michael; Graves, Rodney</i>	1.00	50	Th 3:00-5:50PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				Students develop a semester-long progression of training activities that support completion of the unit's Mission Essential Task List. The laboratory builds on the first semester's achievements through advanced problem solving, resource synchronization and executive decision making. Students evaluate 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. Permission required. Seniors only.					Seniors Only			
AS.374.456	01		W	<b>21st Century Intelligence Issues</b> <i>Boston, Michael; Hoffman, Fred P; Staff</i> Taught by former U.S. Intelligence Officers and members of U.S. Defense and Intelligence Community, "21st Century Intelligence Issues" introduces students to current and future intelligence issues of the 21st century, to include intelligence successes and failures; adversarial deception and deception awareness; intelligence, the law, and government oversight; covert action; and critical 21st century intelligence challenges posed by terrorism, weapons of mass destruction, cyber warfare, unconventional warfare, and non-state actor threats.	3.00	24	W 6:00-8:30PM				AS.374.555	

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## Music

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AS.211.472	01	H	W	<b>Barbers and countesses: conflict and change in the Figaro trilogy from the age of Mozart to the 20th century</b> <i>Refini, Eugenio</i> 2016 marks the bicentennial of Rossini's irreverent masterwork The Barber of Seville, which premiered in Rome in February 1816. Thirty years earlier, in 1786, Mozart's The Marriage of Figaro had opened in Vienna. The two operas, based on the first two plays of Beaumarchais' controversial "Figaro trilogy", stage conflicts of class and gender, challenging the assumptions of the aristocracy as well as the ludicrous pretensions of the raising bourgeoisie. The same themes inform the post-modern portrayal of the past in John Corigliano's The Ghosts of Versailles (1991), which ideally completes the musical afterlife of the trilogy. By studying how the plays were adapted to the opera stage within their different cultural and historical contexts, the course will explore the representation of the ideological, social, and political turmoil that, eventually, culminated in the French Revolution. The course will also include field trips and screenings of movies such as Stanley Kubrick's Barry Lyndon (1975) and Milos Forman's Amadeus (1984). This course may be used to satisfy major requirements in both the French and Italian majors.	3.00	15	T 1:30-4:00PM					
AS.376.111	01			<b>Rudiments of Music Theory and Musicianship</b> <i>Staff</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. Course does not count towards the completion of the minor.	3.00	15	MWF 10:00-10:50AM					
AS.376.111	02			<b>Rudiments of Music Theory and Musicianship</b> <i>Janello, Mark</i>	3.00	15	MWF 12:00-12:50PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.376.111	03			<b>Rudiments of Music Theory and Musicianship</b> <i>Perry, Lisa M</i>	3.00	15	TTh 9:00-10:20AM					
AS.376.211	01			<b>Music Theory I</b> <i>Janello, Mark</i> 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. Must have taken the qualifying examination or AS.376.111. Recommended to be taken concurrently with AS.376.221.	3.00	15	MWF 11:00-11:50AM					
AS.376.211	02			<b>Music Theory I</b> <i>Draper, Natalie Ruth</i>	3.00	15	TTh 12:00-1:15PM					
AS.376.212	01			<b>Music Theory II</b> <i>Stone, Stephen C</i> 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. Prerequisite: Music Theory and Musicianship I (AS.376.211). Recommended to be taken with AS.376.222, Musicianship II.	3.00	15	TTh 10:30-11:45AM					
AS.376.217	01			<b>Music Theory III - Song</b> <i>Rickelton, Michael T</i> 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	TTh 10:30-11:45AM					
AS.376.221	01			<b>Musicianship I</b> <i>Wile, Kip Douglas</i>	2.00	15	TTh 1:30-2:20PM					

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				Study in the basic skills of reading and hearing music. Recommended to be taken concurrently with AS.376.211, Music Theory I.								
AS.376.222	01			<b>Musicianship II</b> <i>Wile, Kip Douglas</i> Further studies in the basic skills of reading and hearing music. Recommended to be taken concurrently with AS.376.212, Music Theory II.	2.00	15	TTh 3:00-3:50PM					
AS.376.231	01	H		<b>Western Classical Music</b>  <i>Giarusso, Richard J</i> This course is an introduction to the rich tradition of Western "Classical" music. We will examine this music from a variety of perspectives, including: 1) its historical, intellectual, and cultural background; 2) the biographical background of its composers; 3) its stylistic context; and 4) analysis of the music itself. We will approach these perspectives through a variety of activities, such as lectures, readings, writing, exams and in-class discussion.	3.00	20	MW 3:00-3:50PM; F 12:00-12:50PM					
AS.376.231	02	H		<b>Western Classical Music</b>	3.00	20	MW 3:00-3:50PM; F 1:30-2:20PM					
AS.376.231	03	H		<b>Western Classical Music</b>	3.00	20	MW 3:00-3:50PM; F 3:00-3:50PM					
AS.376.245	01	H		<b>Introduction to Sound, Audio, and Recording Arts</b>  <i>Stella, Andrew Robert</i>	3.00	14	MW 6:00-6:50PM; F 9:00-9:50AM					

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				In this course we will undertake a comprehensive survey of sound, audio and the related technology. While covering sound recording from an historical perspective, we'll touch on related material in physics, music, psychology and acoustics. In lab exercises and assignments, students will have the opportunity to learn in a hands-on environment as practical applications of the lecture material are explored. Assignments will include critical listening, in addition to basic recording, editing and mixing of audio. The course will culminate in a comprehensive final project.								
AS.376.258	01			<b>Jazz Improvisation and Theory</b> <i>Sims, Ian Kristopher</i> Study of the theory and practice of Jazz Improvisation. Must have taken the qualifying examination or AS.376.111.	3.00	12	MW 1:30-2:50PM				Prereq: AS.376.111	
AS.376.317	01	HS	W	<b>Jewish Music</b> <i>Walden, Joshua</i> What is "Jewish music," and what roles has it played in global and Jewish cultures? This course will address these questions, considering genres and contexts of Jewish music from cantillation to klezmer and from art music to Yiddish cinema. Cross listed with Jewish Studies	3.00	20	Th 1:30-3:50PM					
AS.376.372	01	NS		<b>Introduction to Music Cognition II</b> <i>Lopez-Gonzalez, Monica</i> Continuing from Topics in Music Cognition I, this course explores further the similarities and differences between music and language, the effects of musical training on cognitive development, and the expressive power of music, with an introduction to music and its role in film. We will read relevant research and theory on these topics from cognitive science, neuroscience, psychology, musicology, and philosophical perspectives.	3.00	20	Th 4:30-6:50PM					
AS.376.404	01	H	W	<b>History of Musical Instruments</b> <i>Weiss, Susan Forscher</i>	3.00	20	T 4:30-6:50PM					

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The history, technology, and performance of Western European musical instruments, their precursors, and their non-western counterparts, addressed by experts and explored on visits to historic collections.



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## Near Eastern Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.010.315	01	H		<b>Art of the Assyrian Empire, 1000-600 BCE</b> <i>Feldman, Marian</i> The Assyrian Empire dominated the ancient world from 1000-612 BCE, stretching from Iran to Egypt and laying the foundation for the later Persian and Macedonian empires. With imperial expansion came an explosion of artistic production ranging from palace wall reliefs to small-scale luxury objects. This course provides an integrated picture of the imperial arts of this first great empire, situating it within the broader social and political contexts of the first millennium BCE.	3.00	20	MW 12:00-1:15PM					
AS.100.234	01	HS		<b>The Making of the Muslim Middle East, 600-1100 A.D.</b> <i>El-leithy, Tamer</i> A survey of the major historical transformations of the region we now call the 'Middle East' (from late antiquity through the 11th century) in relation to the formation and development of Islam and various Muslim empires.	3.00	40	TTh 3:00-4:15PM					
AS.130.108	01	H	W	<b>Freshman Seminar: Demons &amp; Doctors: Magic and Medicine in the Ancient Near East</b> <i>Guinn-Villareal, Erin Leigh</i> This course will provide an introduction to the magical and medical arts of ancient Mesopotamia and Syria-Palestine by engaging with ritual texts dealing with disease, exorcisms, sorcery, and harmful ghosts.	3.00	15	TTh 3:00-4:15PM		Freshmen Only			
AS.130.126	01	H		<b>Gods and Monsters in Ancient Egypt</b> <i>Jasnow, Richard</i> To provide a basic introduction to Egyptian Religion, with a special focus on the nature of the gods and how humans interact with them. We will devote particular time to the Book of the Dead and to the "magical" aspects of religion designed for protective purposes.	3.00	100	MWF 11:00-11:50AM					

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AS.130.170	01	H		<b>Diplomacy and Conflict in the Ancient Middle East</b> <i>Lauinger, Jacob</i> The Middle East is home to the invention of agriculture, cities, and writing. It is also in the Middle East that we find evidence of humanity's earliest diplomatic activity in, for instance, the actual letters sent by ancient kings to one another, the treaties drawn up after their conflicts, and the inscriptions that commemorate their conquests. In this course, we examine texts such as these to explore questions such as: How do we characterize the international system of the ancient Middle East? Does this system change over the approximately two millennia for which we have documentation? Is it better to approach ancient diplomacy through present-day eyes or in the context of ancient world-views? Is an understanding of diplomacy in the ancient Middle East relevant to our understanding of modern international relations? All texts read in translation.	3.00	100	MW 12:00-1:15PM					
AS.130.177	01	HS		<b>World Prehistory: An Anthropological Perspective</b> <i>Harrower, Michael James</i> How and why did our nomadic hunting and gathering ancestors become farmers? What led agricultural societies to build cities, develop writing, religious institutions, wage war, and trade for exotic goods? This course surveys prehistory and ancient history from the origins of human culture to the emergence civilization. Although prehistory and ancient history yield evidence of tremendous cultural diversity this course emphasizes common elements of past human experience, culture, and culture change. These include the origins of modern humans and their adjustment to a variety of post-ice age environments, shifts from hunting and gathering to agricultural lifeways, and the initial development of the world's earliest cities and civilizations.	3.00	40	TTh 9:00-10:15AM					
AS.130.249	01	H		<b>Sorcerers, Warriors and Femmes Fatales: Intro to Ancient Egyptian Literature</b> <i>Escolano Poveda, Marina</i>	3.00	15	TTh 3:00-4:15PM					



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AS.130.353	01	HNS		<b>Space Archaeology: An Introduction to Satellite Remote Sensing, GIS and GPS</b> <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 AS.131.653.	3.00	20	TTh 12:00-1:15PM					
AS.130.359	01	H		<b>Reading the Talmud in the Post-Talmudic Era</b> <i>Katz, David</i> Life and Death, Survival and Martyrdom, in the Literature of Post-Talmudic Rabbinic Judaism. Cross-listed with Jewish Studies.	3.00	50	TTh 10:30-11:45AM					
AS.130.373	01	H		<b>Prophets and Prophecy in the Bible</b> <i>Lewis, Theodore</i> From thundering voices of social justice to apocalyptic visionaries, biblical prophets have been revered by Jews, Christians and Muslims for thousands of years. They have inspired civic leaders such as Martin Luther King Jr. yet also provided fodder for modern charlatans promising a utopian future. Yet who were these individuals (orators? politicians? diviners? poets?) and what was the full range of their message as set against the Realpolitik world of ancient Israel, Iraq, Egypt, Syria and Jordan?	3.00	50	MW 12:00-1:15PM					
AS.130.401	01	H		<b>Introduction To Middle Egyptian</b> <i>Escolano Poveda, Marina</i> Introduction to the grammar and writing system of the classical language of the Egyptian Middle Kingdom (ca. 2011- 1700 B.C.). Co-listed with AS.133.601.	3.00	16	TTh 12:00-1:15PM					
AS.130.420	01	H	W	<b>Seminar in Research Methods in Near Eastern Studies: Text and Image in Ancient Near Eastern Art and Texts</b>	3.00	19	M 1:30-4:00PM					

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## Near Eastern Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<i>Delnero, Paul; Feldman, Marian</i> This writing intensive seminar examines how textual and artistic production were used separately and together to engender and communicate social, cultural, and political meaning in ancient Mesopotamia and the rest of the Near East from the 4th millennium to the Hellenistic period. Using a variety of case studies, students will develop skills in specific research skills such as critical reading, analysis, and interpretation. AS.130.420 is required of NES Majors, but is also open to non-majors who have taken at least one 100-level and one 300-level Near Eastern Civilization course, or with the consent of the instructor. Cross-listed with History of Art.								
AS.130.441	01	H		<b>Elementary Biblical Hebrew</b> <i>Liebermann, Rosanne Ruth</i> Survey of grammar and reading of simple texts. (Credit given only on completion of AS.130.440 and AS.130.441). May not be taken on a satisfactory/unsatisfactory basis.	3.00	15	T 3:00-5:00PM					
AS.389.205	01	H		<b>Examining Archaeological Objects</b> <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.	3.00	14	F 1:30-3:50PM					

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## Neuroscience

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.020.370	01	N	W	<b>Emerging Strategies and Applications in Biomedical Research</b> <i>Hattar, Samer</i> Up-to-date primary literature manuscripts related to new discoveries and new strategies that are allowing scientists to make amazing progress in biomedical research will be presented. Examples include: labeling neurons with up to 90 different colors to trace their circuitry, evolution studies in glowing bacteria, detecting several viruses on a single chip and using fiber optics and channel rhodopsin to induce sleep. Students should be interested in reading primary literature research papers and discussing them in class. Recommended Course Background: AS.020.305 or AS.020.306 or AS.080.305 or AS.080.306. Juniors and Seniors only.	3.00	50	TTh 10:30-11:45AM					
AS.050.203	01	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b> <i>Park, Soojin; Purcell, Jeremy Joseph; Rapp, Brenda C</i> This course surveys theory and research concerning how mental processes are carried out by the human brain. Currently a wide range of methods of probing the functioning brain are yielding insights into the nature of the relation between mental and neural events. Emphasis will be placed on developing an understanding of both the physiological bases of the techniques and the issues involved in relating measures of brain activity to cognitive functioning. Methods surveyed include electrophysiological recording techniques such as EEG, ERP, single/multiple unit recording and MEG; functional imaging techniques such as PET and fMRI; and methods that involve lesioning or disrupting neural activity such as cortical stimulation, animal lesion studies, and the study of brain-damaged individuals. (Co-listed as AS.080.203 in Neuroscience.)	3.00	5	T 10:30-11:45AM; TBA	The sections of this course correspond with the sections listed for AS.080.203. Students will meet o				
AS.050.203	02	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	T 10:30-11:45AM; TBA					

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## Neuroscience

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.050.203	03	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	T 10:30-11:45AM; TBA					
AS.050.203	04	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	T 10:30-11:45AM; TBA					
AS.050.203	05	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	T 10:30-11:45AM; TBA					
AS.050.203	06	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	Th 10:30-11:45AM; TBA					
AS.050.203	07	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	Th 10:30-11:45AM; TBA					
AS.050.203	08	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	Th 10:30-11:45AM; TBA					
AS.050.203	09	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	Th 10:30-11:45AM; TBA					
AS.050.203	10	NS		<b>Cognitive Neuroscience: Exploring the Living Brain</b>	3.00	5	Th 10:30-11:45AM; TBA					
AS.050.315	01	NS		<b>Cognitive Neuropsychology of Visual Perception: The Malfunctioning Visual Brain</b> <i>McCloskey, Michael E</i>	3.00	75	TTh 12:00-1:15PM					

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Neuroscience

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>	
				When we think about our ability to see, we tend to think about our eyes, but in fact vision happens mostly in the brain. This course explores the remarkable perceptual deficits that occur when the visual regions of the brain are damaged or fail to develop normally, focusing on what these perceptual malfunctions tell us about normal visual perception. Topics include visual system anatomy and physiology; functional specialization in the lower visual system as revealed by cerebral achromatopsia (color blindness resulting from brain damage) and akinetopsia (impaired motion perception); cortical plasticity in the visual system; spatial deficits in perception and action; and the implications of high-level visual deficits, including prosopagnosia (impaired face recognition), Charles Bonnet syndrome (complex visual hallucinations in blind areas of the visual field), blindsight (accurate responding to visual stimuli despite apparent inability to see them), and Anton's syndrome (denial of blindness).				One or more of the following recommended: AS.050.105, AS.050.203, AS.080.203, AS.050.101, OR AS.200.					
AS.080.203	01	NS		<b>Cognitive Neuroscience</b>  <i>Park, Soojin; Rapp, Brenda C</i> This course surveys theory and research concerning how the human brain carries out mental processes. The sections of this course correspond with the sections listed for AS.020.203. All sections will meet together on exams day and guest lecture days. Co-listed as AS.050.203 in Cognitive Science.	3.00	20	T 10:30-11:45AM; TBA	The sections of this course correspond with the sections listed for AS.050.203. Students will meet o					
AS.080.203	02	NS		<b>Cognitive Neuroscience</b>	3.00	20	T 10:30-11:45AM; TBA						
AS.080.203	03	NS		<b>Cognitive Neuroscience</b>	3.00	20	T 10:30-11:45AM; TBA						



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## Neuroscience

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.080.203	04	NS		<b>Cognitive Neuroscience</b>	3.00	20	T 10:30-11:45AM; TBA					
AS.080.203	05	NS		<b>Cognitive Neuroscience</b>	3.00	20	T 10:30-11:45AM; TBA					
AS.080.203	06	NS		<b>Cognitive Neuroscience</b>	3.00	20	Th 10:30- 11:45AM; TBA					
AS.080.203	07	NS		<b>Cognitive Neuroscience</b>	3.00	20	Th 10:30- 11:45AM; TBA					
AS.080.203	08	NS		<b>Cognitive Neuroscience</b>	3.00	20	Th 10:30- 11:45AM; TBA					
AS.080.203	09	NS		<b>Cognitive Neuroscience</b>	3.00	20	Th 10:30- 11:45AM; TBA					
AS.080.203	10	NS		<b>Cognitive Neuroscience</b>	3.00	20	Th 10:30- 11:45AM; TBA					
AS.080.250	01	NS		<b>Neuroscience Laboratory</b> <i>Gorman, Linda K; Trageser, Jason</i> 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		In Person Registration Only		Prerequisite: (AS.080.305 AND AS.080.306) OR AS.200.141 or instructor's permission.	
AS.080.250	02	NS		<b>Neuroscience Laboratory</b>	3.00	20	W 1:30-4:20PM					

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## Neuroscience

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.080.250	03	NS		<b>Neuroscience Laboratory</b>	3.00	20	Th 1:30-4:20PM					
AS.080.250	04	NS		<b>Neuroscience Laboratory</b>	3.00	20	F 1:30-4:20PM					
AS.080.303	01	N		<b>Structure of the Nervous System</b> <i>Hendry, Stewart H</i> This course takes a structural biological approach to studying the nervous system. In using a systems approach it provides students of cellular-molecular and computational neuroscience with a thorough introduction to functional, microscopic and submicroscopic organization of the brain, spinal cord and peripheral nervous system.	3.00	50	MW 4:30-5:45PM	Prereqs. AS.080.305 and AS.080.306			AS.080.305 AND AS.080.306	
AS.080.304	01			<b>Neuroscience Learning and Memory</b> <i>Bakker, Arnold</i> This course is an advanced survey of the scientific study of learning and memory. Different perspectives will be used to review the science of learning and memory including the cellular-molecular basis of synaptic plasticity, the functional circuitry involved in learning and memory and memory systems in the brain. The course is designed to provide a deep understanding of the issues and current debates in learning and memory research and focuses specifically on animal models of memory and memory impairment. This is an interactive lecture course with a strong emphasis on student participation. Recommended Course Background: AS.200.141 OR AS.020.312 OR AS.080.203 OR AS.050.203 OR AS.080.305 AND AS.080.306	3.00	30	TTh 4:30-5:45PM				AS.200.141[C] OR ( AS.080.305 [C] AND AS.080.306[C] ) OR ( AS.020.312 [C] AND AS.020.306[C] )	
AS.080.306	01	N		<b>The Nervous System II</b> <i>Hendry, Stewart H; Zhao, Haiqing</i>	3.00	150	TTh 1:30-2:45PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				The course uses the functional organization of the somatosensory system as a means to examine mechanisms of neural development. Generation and maturation of neurons, guidance of axons, formation of synapses and the regressive events that shape the adult nervous system will be examined. At the same time we will explore the structure and function of brain regions that allow us to feel pain and temperature, detect vibration, recognize shape and perceive where we are in space. Finally, the single-neuron events that lead to adaptive changes in function will be explored in the context of central nervous system control of movement and of higher order functions of speech and memory. Students who do not register for Nervous System I offered during the first term should not register for this class.							Prereq: AS.080.305	
AS.080.320	01	N		<b>The Auditory System</b> <i>Boatman, Dana F</i> This course will cover the neuroanatomy and neurophysiology of the human auditory system from the ear to the brain. Behavioral, electrophysiological, and neuroimaging methods for assessing peripheral and central auditory function will be discussed. Acquired and developmental disorders of auditory function will be reviewed using clinical case studies.	3.00	30	WF 1:30-2:45PM				AS.080.305 OR AS.080.203 OR AS.050.203 OR AS.200.141 OR AS.020.312 or permission of the instructor.	
AS.080.322	01	N		<b>Cellular and Molecular Biology of Sensation</b> <i>Fuchs, Paul Albert</i> Leading scientists in sensory biology from the Johns Hopkins community will present the most current knowledge in the cellular and molecular biology of sensation. A lecture and a student presentation of an exemplar manuscript will be presented each week on a different topic of sensory systems.	3.00	30	TTh 5:00-6:15PM				Prerequisite: AS.080.304 OR AS.080.305 OR AS.080.306 OR AS.020.306 OR AS.020.305.	
AS.080.333	01	NS	W	<b>Writing About the Nervous System</b> <i>Hendry, Stewart H</i>	3.00	12	MW 1:30-2:45PM					

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## Neuroscience

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				To write clearly and cogently about the nervous system demands two things in equal measure. One is serious understanding and the other is skill. Neither is a gift since both must be acquired. We will strive to do both in this course by taking an extant document – either a slim text on a restricted subject in neuroscience or a set of class notes – and, through revision and addition of recently published findings, substantially improve that document. Students will be required to read, write and revise extensively – at least two assignments each week.							AS.080.305 AND AS.080.306	
AS.080.357	01			<b>Developmental Neuroscience</b> <i>Farah, Mohamed H</i> The developmental neuroscience course will cover principles of neural development. The course will focus on major events in neural development: patterning and growth of the nervous system, neuronal determination, axonal navigation and targeting, neuron survival and death, synapse function, developmental plasticity, and behavioral and cognitive development.	3.00	30	TTh 3:00-4:15PM				AS.080.305 AND AS.080.306	
AS.080.400	01	NS		<b>Research Practicum: Language Disorders-Community Based Learning</b> <i>Rapp, Brenda C</i> This course provides 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. This is a two (2) credit practicum.	2.00	2	TBA			Juniors Only		





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## Neuroscience

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<p>This practicum provides students the opportunity to learn, play and interact with children receiving treatment in over 20 different specialties including dermatology, endocrine, GI, immunology, urology, plastics, hematology among others. Students will travel to an outpatient building at the John's Hopkins Children's center where they will participate in a variety of therapeutic activities including doing art projects and making the children feel comfortable. Students will gain valuable clinical experience and be exposed to a wide range of children with a variety of diseases/illnesses. You will receive initial training prior to participating and will be responsible for attending a mandatory orientation and exit session that will be held on the Homewood Campus.</p> <p>This is a one (1) – three (3) credit S/U course, organized by the Undergraduate Neuroscience Program. This course has an option for variable credits by which 1 credit equals 3 visits, 2 credits equals 6 and 3 credits equals 9 visits. The visits for this practicum are 10-12 on Tuesdays or 10-12 on Thursdays of each month. Transportation is provided by the JHU shuttle.</p>				<p>This course has an option for variable credits. Therefore, 1 credit equals 3 visits, 2 credits equal</p>				
AS.080.411	01	N		<p><b>Advanced Seminar: Neuroscience I</b> <i>Baraban, Jay M</i></p> <p>For students in the first semester of the BA/MS Program. Instructor permission required.</p>	3.00	10	TBA				In Person Registration Only	
AS.080.412	01	N		<p><b>Advanced Seminar: Neuroscience II</b> <i>Baraban, Jay M</i></p> <p>For students in the 2nd semester of the BA/MS Program. Permission Required.</p>	3.00	10	TBA				In Person Registration Only	
AS.080.413	01	N		<p><b>Advanced Seminar: Neuroscience III</b> <i>Baraban, Jay M; Gorman, Linda K</i></p> <p>For students in the 3rd semester of the BA/MS Program. Permission Required.</p>	3.00	10	TBA				In Person Registration Only	

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## Neuroscience

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.200.141	01	NS		<b>Foundations of Brain, Behavior and Cognition</b> <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.200.304	01	N		<b>Neuroscience of Decision Making</b> <i>Stuphorn, Veit</i> This course will survey the neural mechanisms of decision-making. Current experimental research and theory concerning selection, control, and evaluation of actions are examined in humans and animals. Topics will range from simple perceptual judgements to complex social behavior. The course involves a weekly lecture about a specific topic followed by a student presentation of a current research paper. Cross-listed with Neuroscience.	3.00	19	TTh 9:00-10:15AM				AS.080.305 OR AS.080.205 OR AS.200.141	
AS.200.368	01	NS		<b>Sleep, Dreams, and Altered States of Consciousness</b> <i>Allen, Richard</i>	3.00	60	TTh 4:00-5:15PM					



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Neuroscience

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<p>Sleep, dreaming, resting and arousal to waking represent very different states of consciousness which differ dramatically both psychologically and physiologically. This course focuses on cognitive, psychological, physiological, biological and genetic aspects characterizing each of these states with some reference to other altered states. The course includes a focus on the major pathologies affecting sleep-wake states. Clinical cases will be considered. These inform about both psychological and biological aspects of these states. The relative biological functions of each state will be evaluated with particular attention to the mystery of why we have and apparently need REM and NREM sleep. Actual physiological recordings of sleep states will be reviewed and the student will learn how these are obtained and how to evaluate these. The circadian rhythms, ontogeny and evolution of these sleep-wake states will also be covered. This will include a review of information learned from non-human animal sleep. The change from sleep to full awakening reflects change toward increasing brain organization supporting consciousness. Understanding of the neurobiology of these states will be used to explore some of the more modern and scientific concepts of human self-awareness or consciousness.</p>							AS.080.203 OR AS.050.203 OR AS.200.101 or permission required.	
AS.200.370	01	NS		<p><b>Functional Human Neuroanatomy</b></p> <p><i>Courtney-Faruqee, Susan</i></p> <p>This course examines the general organizing principles of the anatomy of the human central nervous system and how this anatomical organization relates to function, from the level of neural circuits, to systems, to behavior. Students will learn to identify neuroanatomical structures and pathways in dissections and MRI images through computerized exercises. Readings and lectures will emphasize general structure-function relationships and an understanding of the functional roles of particular structures in sensory, motor, and cognitive systems.</p>	3.00	50	MWF 11:00-11:50AM				AS.080.250 OR AS.080.305	

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Neuroscience

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.200.376	01	NS		<b>Psychopharmacology</b>	3.00	100	WF 12:00-1:15PM					
				<i>Adwanikar, Hita M</i>								
				Designed to provide information about how drugs affect the brain and behavior. The course focuses on biological concepts underlying structures and functions of the brain that relate to mental disorders. An introduction to neurobiology and brain function is presented as it applies to the interaction of various classes of drugs with the individual neurotransmitter systems in the brain. A brief historic review is followed by a discussion of clinical relevance. Cross-listed with Behavioral Biology and Neuroscience.							Prerequisite: AS.200.141 OR (AS.020.312 AND AS.020.306) OR (AS.080.305 AND AS.080.306) or permission required.	

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## Philosophy

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.150.111	01	H	W	<b>Philosophic Classics</b>  <i>Moyar, Dean</i> What is justice? Why did Plato think the poets should be banned from the ideal city? Is "I think" or "God exists" the basis of knowledge according to Descartes? Why did Rousseau argue that progress in science makes us morally worse? These are some of the questions we will explore in this historical introduction to philosophy.	3.00	20	MW 12:00-12:50PM; F 12:00-12:50PM					
AS.150.111	02	H	W	<b>Philosophic Classics</b>	3.00	20	MW 12:00-12:50PM; F 12:00-12:50PM					
AS.150.111	03	H	W	<b>Philosophic Classics</b>	3.00	20	MW 12:00-12:50PM; F 12:00-12:50PM					
AS.150.111	04	H	W	<b>Philosophic Classics</b>	3.00	20	MW 12:00-12:50PM; F 1:00-1:50PM					
AS.150.111	05	H	W	<b>Philosophic Classics</b>	3.00	20	MW 12:00-12:50PM; F 1:00-1:50PM					
AS.150.111	06	H	W	<b>Philosophic Classics</b>	3.00	20	MW 12:00-12:50PM; F 2:00-2:50PM					
AS.150.182	01	H		<b>What Is Science?</b>  <i>Achinstein, Peter</i>	3.00	15	MW 11:00-11:50AM; F 11:00-11:50PM					

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## Philosophy

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				A philosophical introduction to very basic questions about scientific reasoning, its scope and limits. Is there a universal scientific method? Can science really explain everything, anything? Must everything be proved in science? Is science incompatible with religion? Readings will be from scientists and philosophers who have thought about these issues from Descartes and Newton to the present. No prerequisites either in philosophy or science.								
AS.150.182	02	H		<b>What Is Science?</b>	3.00	15	MW 11:00-11:50AM; F 12:00-12:50PM					
AS.150.182	03	H		<b>What Is Science?</b>	3.00	15	MW 11:00-11:50AM; F 11:00-11:50PM					
AS.150.182	04	H		<b>What Is Science?</b>	3.00	15	MW 11:00-11:50AM; F 1:30-2:20PM					

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## Philosophy

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.150.205	01	H		<b>Introduction to the History of Modern Philosophy</b>  <i>Melamed, Yitzhak Yohanan</i> An overview of philosophical thought in the seventeenth and eighteenth centuries. We shall focus on fundamental questions in epistemology (knowledge, how we acquire it, its scope and limits), metaphysics (the ultimate nature of reality, the relation of mind and body, free will), and theology (the existence and nature of God, God's relation to the world, whether knowledge of such things is possible): all questions that arose in dramatic ways as a result of the rise of modern science. The principal philosophers to be discussed are Descartes, Locke, Hume and Kant, though we shall also make the acquaintance of Spinoza, Leibniz and Berkeley.	3.00	20	MW 10:00-10:50AM; F 11:00-11:50AM					
AS.150.205	02	H		<b>Intro Hist of Mod Philos</b>	3.00	20	F 12:00-12:50PM; MW 10:00-10:50AM					
AS.150.205	03	H		<b>Intro Hist of Mod Philos</b>	3.00	20	F 10:00-10:50AM; MW 10:00-10:50AM					
AS.150.205	04	H		<b>Intro Hist of Mod Philos</b>	3.00	20	MW 10:00-10:50AM; F 1:30-2:20PM					

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AS.150.220	01	H		<b>Introduction to Moral Philosophy</b>  <i>Theunissen, L Nandi</i> The class serves as an introduction to ethics. We consider select topics in meta-ethics (on the nature of reason and value), and we survey three prominent theories within normative ethics (utilitarianism, Kant's moral theory, and virtue theory). We will read classic works from the history of philosophy, and important contemporary papers.	3.00	20	MW 12:00-12:50PM; F 1:30-2:20PM					
AS.150.220	02	H		<b>Introduction to Moral Philosophy</b>	3.00	20	MW 12:00-12:50PM; W 3:00-3:50PM					
AS.150.220	03	H		<b>Introduction to Moral Philosophy</b>	3.00	20	MW 12:00-12:50PM; W 4:00-4:50PM					
AS.150.220	04	H		<b>Introduction to Moral Philosophy</b>	3.00	20	MW 12:00-12:50PM; F 1:30-2:20PM					
AS.150.220	05	H		<b>Introduction to Moral Philosophy</b>	3.00	20	MW 12:00-12:50PM; F 1:30-2:20PM					
AS.150.220	06	H		<b>Introduction to Moral Philosophy</b>	3.00	20	MW 12:00-12:50PM; W 3:00-3:50PM					
AS.150.223	01	H		<b>Formal Methods of Philosophy</b> <i>Bledin, Justin; Rynasiewicz, Robert</i>	3.00	30	TTh 1:30-2:45PM					

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				During the last century or so, symbolic logic and other formal methods have come to play an essential role in most areas of systematic philosophical inquiry. This course serves as an introduction to these formal prerequisites for more advanced study in a wide variety of contemporary philosophical areas. Topics include the syntax and semantics of sentential and first-order predicate logic, natural deduction, basic set theory, mathematical induction and recursion, probability, modal logic, and non-standard logics. The emphasis is on basic comprehension, not on mathematical virtuosity. (Co-listed/combined with 150.423)								
AS.150.259	01	H		<b>Introduction to the Theory of Knowledge</b> <i>Williams, Michael</i> An introduction to the central problems, concepts and theories of philosophical epistemology (theory of knowledge). Topics to be explored will include: what is knowledge (and why do we want it)? Can we get it (skeptics answer "No!"), or is everything in the end a matter of opinion? (skeptics say "Yes!"). Theories of knowledge and justification: foundationalism versus the coherence theory; externalism versus internalism in epistemology. To what extent is knowledge an appropriate object of theory? Readings from early 20th century through contemporary sources.	3.00	15	MW 1:30-2:45PM					

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AS.150.300	01	H		<b>Prometheus Editorial Workshop</b> <i>Powell, Kevin Matthew</i> Prometheus is an international undergraduate philosophy journal published by students at Johns Hopkins University. The purpose of the journal is to promote philosophic discourse of the highest standard by offering students an opportunity to engage in open discussion, participate in the production and publication of an academic journal, and establish a community of aspiring philosophers. Students enrolled in this workshop will act as the staff readers for the journal. For more information, please visit <a href="http://www.prometheus-journal.com">www.prometheus-journal.com</a> . Prerequisite: MUST have taken one philosophy course.	1.00	20	W 7:00-8:00PM					
AS.150.330	01	H		<b>Decisions, Games &amp; Social Choice</b> <i>Bledin, Justin</i> We investigate rational decision making at the individual and group level. In the first section of the course on decision theory, we consider how a single agent ought to act in a choice situation given her knowledge, or lack thereof, about the world and her particular risk profile. In the second section on game theory, we explore different kinds of competitive and cooperative strategic interactions between agents, and we define different kinds of solutions, or equilibria, of these games. We also apply game theory to the study of morality and convention. In the final section of the course on social choice theory, we turn to group decision making. Specifically, we discuss impossibility results by Arrow and Sen. While no prior knowledge of decision/game/social choice theory is required, students should be comfortable with mathematical formalism, probability, and basic methods of mathematical proof.	3.00		TTh 3:00-4:15PM					
AS.150.401	01	H	W	<b>Greek Philosophy: Plato and His Predecessors</b> <i>Bett, Richard</i>	3.00		TTh 10:30-11:45AM					



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				A study of pre-Socratic philosophers, especially those to whom Plato reacted; also an examination of major dialogues of Plato with emphasis upon his principal theses and characteristic methods. Cross-listed with Classics.								
AS.150.416	01	H		<b>Kant's major "minor writings"</b> <i>Forster, Eckart</i> Some of Kant's so-called "minor writings" are in fact brilliant essays that represent important stages in the formation and development of his mature, "critical" philosophy. In this course we will study ten of these essays in detail.	3.00	15	Th 1:30-3:50PM					
AS.150.421	01	HQ		<b>Mathematical Logic II</b> <i>Rynasiewicz, Robert</i>	3.00	20	TTh 9:00-10:15AM					

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				<p>Euclid set a precedent for the codification of mathematics in his axiomatization of (Euclidean) geometry. An obvious question that arises is whether all branches of mathematics are axiomatizable, especially fundamental ones, such as arithmetic. In the late nineteenth century, what became known as Peano arithmetic was proposed as an axiomatization. The essential feature of an axiomatization is that, although one might have an infinite number of axioms, as does Peano arithmetic, one must have a decision procedure for determining whether a given proposition is or is not an axiom. In 1931, Gödel proved the astounding result that, not only is Peano arithmetic incomplete in the sense that it does not entail all arithmetic truths, but any attempted axiomatization of arithmetic is incomplete, and thus the set of arithmetic truths must be undecidable. Subsequently, Alfred Tarski showed the set of arithmetic truths is not even definable. Also, by finding a finitely axiomatizable subtheory of Peano arithmetic, Alonzo Church was able to show that there is not even an effective procedure for determining whether a given sentence is a logical truth. Finally, in his 1931 paper, Gödel was also able to argue that any theory strong enough to express the notion of its own consistency, as he showed Peano arithmetic to be, cannot prove its own consistency unless it is inconsistent. We will cover these and other results that have had a profound effect on the foundations of mathematics. It remains an open question whether so basic a theory as Peano arithmetic is consistent. Prerequisite: 150.420 Mathematical Logic - I or its equivalent.</p>							Prereq: AS.150.420	
AS.150.423	01	H		<b>Formal Methods of Philosophy</b> <i>Bledin, Justin; Rynasiewicz, Robert</i>	3.00	15	TTh 1:30-2:45PM					

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				During the last century or so, symbolic logic and other formal methods have come to play an essential role in most areas of systematic philosophical inquiry. This course serves as an introduction to these formal prerequisites for more advanced study in a wide variety of contemporary philosophical areas. Topics include the syntax and semantics of sentential and first-order predicate logic, natural deduction, basic set theory, mathematical induction and recursion, probability, modal logic, and non-standard logics. The emphasis is on basic comprehension, not on mathematical virtuosity. (Co-listed/combined with 150.223)								
AS.150.426	01	HS	W	<b>Philosophy and Disability</b> <i>Bok, Hilary</i> In this course, we will consider various philosophical issues related to disability. What counts as a disability? What obligations do we have, both as individuals and as a society, to people with disabilities? What counts as respecting people with disabilities, and what counts as unjustifiable discrimination against them?	3.00	20	F 1:30-4:00PM				AS.150.219 OR AS.150.220	
AS.150.431	01	H		<b>Introduction to Philosophy of Science</b> <i>Achinstein, Peter; Bett, Richard</i> Central topics will include the nature of evidence, probability, explanation, and method in science. Readings will be from classical and contemporary philosophers and scientists, and will not presuppose any previous courses in philosophy or science.	3.00		T 1:30-4:00PM					
AS.150.441	01	H		<b>Wittgenstein: Philosophical Investigations</b> <i>Williams, Meredith</i> We will examine several different interpretations of the Philosophical Investigations, including that of Stanley Cavell, Stephen Mulhall, the Resolute Reading, and my own interpretation. Familiarity with this work is very desirable.	3.00	12	TTh 9:00-10:15AM					
AS.150.446	01	H		<b>Hegel's Science of Logic</b>	3.00	15	M 3:00-5:30PM					

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				<i>Forster, Eckart; Moyar, Dean</i> In this course we will focus on the first two parts of Hegel's Science of Logic, and address the following issues (among others). In what sense is Hegel's dialectical logic continuous with the classical metaphysical tradition and in what sense is it a critique of traditional metaphysics? What motivates the project, or what questions does Hegel think his logic can answer that previous logics did not?								
AS.150.456	01	H		<b>Medieval Philosophy</b> <i>Ogden, Stephen Robinson</i> Introduction to medieval philosophy and the encounter of ancient philosophy with Judaism, Christianity, and Islam. Readings from Augustine, Saadia, Ibn Sina, al-Ghazali, Maimonides, Aquinas, Crescas, Ockham, et al.	3.00	25	TTh 12:00-1:15PM					
AS.150.499	01	H		<b>The Principle of Sufficient Reason</b> <i>Melamed, Yitzhak Yohanan</i> According to the Principle of Sufficient Reason every fact must have a reason, or explanation. In other words: there are no brute facts. If a certain penguin has three dots on its right wing - there must be a reason for this. If there are no penguins with precisely three dots on their right wings - there must be a reason for that as well. In the first half of the course we will read works by the two philosophers who introduced the principle: Spinoza and Leibniz. In the second part, we will read texts by Kant, Maimon, Hegel, Schopenhauer, and some contemporary analytic philosophers, and discuss the plausibility, implications, and justification of the principle.	3.00	20	M 1:30-4:00PM					
AS.200.336	01	S		<b>Foundations of Mind</b> <i>Feigenson, Lisa; Halberda, Justin</i>	4.00	25	TTh 1:30-2:45PM; W 10:00-10:50AM					

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				An interdisciplinary investigation into the innateness of concepts: perception, number, language, and morality, physics discussed. Evidence from animals, infants, patients, brains. Students collect data in sections investigating claims from the readings. Cross-listed with Cognitive Science and Philosophy.								
AS.200.336	02	S		<b>Foundations of Mind</b>	4.00	25	TTh 1:30-2:45PM; W 2:00-2:50PM					
AS.200.336	03	S		<b>Foundations of Mind</b>	4.00	25	TTh 1:30-2:45PM; W 3:00-3:50PM					
AS.225.328	01	H	W	<b>The Existential Drama: Philosophy and Theatre of the Absurd</b> <i>Martin, Joseph H</i> Existentialism, a powerful movement in modern drama and theatre, has had a profound influence on contemporary political thought, ethics, and psychology, and has transformed our very notion of how to stage a play. Selected readings and lectures on the philosophy of Kierkegaard, Nietzsche, Camus and Sartre -- and discussion of works for the stage by Sartre, Ionesco, Genet, Beckett, Albee, Pinter, Athol Fugard (with Nkani & Nshone), Heiner Müller and the late plays of Caryl Churchill. Opportunities for projects on Dürrenmatt, Frisch, Havel, Witkiewicz, and Mrozek.	3.00	15	M 3:00-5:30PM					

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AS.171.101	01	EN		<b>General Physics:Physical Science Major I</b>  <i>Gritsan, Andrei</i> First semester of a two-semester sequence in general physics covers mechanics, heat, sound, electricity and magnetism, optics, and atomic 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. Corequisite: AS.110.108-AS.110.109, AS.173.111-AS.173.112	4.00	24	MWF 11:00-11:50AM; Th 8:00-8:50AM	Midterm exams for every section are given during the 8 AM section time! Accordingly, students regist				
AS.171.101	02	EN		<b>General Physics:Physical Science Major I</b>	4.00	24	MWF 11:00-11:50AM; Th 9:00-9:50AM					
AS.171.101	03	EN		<b>General Physics:Physical Science Major I</b>	4.00	24	MWF 11:00-11:50AM; Th 10:30-11:20AM					
AS.171.101	04	EN		<b>General Physics:Physical Science Major I</b>	4.00	24	MWF 11:00-11:50AM; Th 10:30-11:20AM					
AS.171.101	05	EN		<b>General Physics:Physical Science Major I</b>	4.00	24	MWF 11:00-11:50AM; Th 12:00-12:50PM					

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AS.171.101	06	EN		<b>General Physics:Physical Science Major I</b>	4.00	24	MWF 11:00-11:50AM; Th 12:00-12:50PM	Midterm exams for every section are given during the 8 AM section time! Accordingly, students regis				
AS.171.102	01	EN		<b>General Physics: Physical Science Majors II</b>  <i>Robbins, Mark O</i> Second semester of a two-semester sequence in general physics covers mechanics, heat, sound, electricity and magnetism, optics, and atomic 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. Recommended Course Background: A grade of C- or better in either Physics I or the first semester of Engineering Mechanics ( AS.171.101 OR AS.171.103 OR AS.171.105 OR AS.171.107 OR EN.530.103 )	4.00	24	F 8:00-8:50AM; TTh 10:30-11:45AM	Midterm exams for every section are given during the 8 AM section time! Accordingly, students regis			Corequisites: ( AS.110.107 OR AS.110.109 OR AS.110.211 )	
AS.171.102	02	EN		<b>General Physics: Physical Science Majors II</b>	4.00	24	F 8:00-8:50AM; TTh 10:30-11:45AM					
AS.171.102	03	EN		<b>General Physics: Physical Science Majors II</b>	4.00	24	F 9:00-9:50AM; TTh 10:30-11:45AM					
AS.171.102	04	EN		<b>General Physics: Physical Science Majors II</b>	4.00	24	F 9:00-9:50AM; TTh 10:30-11:45AM					





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				This two-semester sequence is designed to present a standard calculus-based physics preparation tailored to students majoring in one of the biological sciences. Topics in electricity & magnetism, optics, and modern physics will be covered in this semester. 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. Recommended Course Background: C- or better in AS.171.101 or AS.171.103; Corequisite: AS.110.109, AS 173.112.				Midterm exams for every section are given during the 8 AM section time! Accordingly, students regis				
AS.171.104	02	EN		<b>General Physics/Biology Majors II</b>	4.00	24	MWF 9:00-9:50AM; T 9:00-9:50AM					
AS.171.104	03	EN		<b>General Physics/Biology Majors II</b>	4.00	24	MWF 9:00-9:50AM; T 9:00-9:50AM					
AS.171.104	04	EN		<b>General Physics/Biology Majors II</b>	4.00	24	MWF 9:00-9:50AM; T 10:30-11:20AM					
AS.171.104	05	EN		<b>General Physics/Biology Majors II</b>	4.00	24	MWF 9:00-9:50AM; T 10:30-11:20AM					
AS.171.104	06	EN		<b>General Physics/Biology Majors II</b>	4.00	24	MWF 9:00-9:50AM; T 10:30-11:20AM					
AS.171.104	07	EN		<b>General Physics/Biology Majors II</b>	4.00	24	MWF 9:00-9:50AM; T 12:00-12:50PM					



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				<p>This two-semester sequence in general physics is identical in subject matter to AS.171.101-AS.171.102, covering mechanics, heat, sound, electricity and magnetism, optics, and modern 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. Priority in registration will be given to freshmen.</p> <p>Recommended Course Background: A grade of C- or better in either Physics I or the first semester of Engineering Mechanics ( AS.171.101 OR AS.171.103 OR AS.171.105 OR AS.171.107 OR EN.530.103 )</p>				Midterm exams for every section are given during the 8 AM section time! Accordingly, students regist	Freshmen Only		Corequisite: ( AS.110.107 OR AS.110.109 OR AS.110.211)	
AS.171.108	02	EN		<b>General Physics for Physical Science Majors (AL)</b>	4.00	20	TTh 9:00-10:15AM; F 9:00-9:50AM					
AS.171.108	03	EN		<b>General Physics for Physical Science Majors (AL)</b>	4.00	19	TTh 9:00-10:15AM; F 10:00-10:50AM					
AS.171.108	04	EN		<b>General Physics for Physical Science Majors (AL)</b>	4.00	19	TTh 9:00-10:15AM; F 11:00-11:50AM					
AS.171.118	01	N		<b>Stars and the Universe: Cosmic Evolution</b> <i>Riess, Adam</i>	3.00	300	MW 1:30-2:45PM					
				Great discoveries in Space: the lives and deaths of stars, the cosmic origins of the elements, Black Holes, the Big Bang, the expansion of space, Dark Matter, Dark Energy, the search for life beyond Earth and more!								
AS.171.125	01			<b>It's not magic, it's physics: Extraordinary Experiments</b> <i>Valdivia Leiva, Maria Pia</i>	3.00	18	W 1:30-4:20PM					



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				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, transition probabilities and selection rules, atomic structure, scattering theory. Recommended Course Background: AS.171.303, AS.171.202, AS.171.204, AS.110.202.								
AS.171.304	02	N		<b>Quantum Mechanics II</b>	4.00	20	MWF 9:00-9:50AM; Th 5:00-5:50PM					
AS.171.309	01	N		<b>Wave Phenomena with Biophysical Application</b>  <i>Reich, Daniel H</i> 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.	4.00		MWF 11:00-11:50AM; T 3:00-3:50PM				Students must have completed Lab Safety training prior to registering for this class.	
AS.171.406	01	N		<b>Condensed Matter Physics</b> <i>Broholm, Collin</i> Frontiers in condensed matter physics and advanced electronic materials research. Topics include Quantum Magnetism, superconductivity, the metal insulator transition, quantum criticality, and topological materials	3.00	24	MW 3:00-4:30PM					
AS.171.408	01	N		<b>Nuclear and Particle Physics</b> <i>Blumenfeld, Barry J</i>	3.00	35	MW 3:00-4:15PM					

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				Basic properties of nuclei, masses, spins, parity. Nuclear scattering, interaction with electromagnetic radiation, radioactivity, Pions, muons, and elementary particles, including resonances. Recommended Course Background: AS.171.303								
AS.173.111	01	N		<b>General Physics Laboratory I</b> <i>Chien, Chia Ling</i> 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. Corequisite: AS.171.101, AS.171.103, or AS.171.105.	1.00	24	T 1:30-4:20PM					
AS.173.111	02	N		<b>General Physics Laboratory I</b>	1.00	24	W 1:30-4:20PM					
AS.173.111	03	N		<b>General Physics Laboratory I</b>	1.00	24	Th 1:30-4:20PM					
AS.173.111	04	N		<b>General Physics Laboratory I</b>	1.00	24	T 6:00-8:50PM					
AS.173.111	05	N		<b>General Physics Laboratory I</b>	1.00	24	W 6:00-8:50PM					
AS.173.111	06	N		<b>General Physics Laboratory I</b>	1.00	24	M 6:00-8:50PM					

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## Physics &amp; Astronomy

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.173.112	01	N		<b>General Physics Laboratory II</b> <i>Chien, Chia Ling</i> 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. Recommended Course Background: AS.173.111; Corequisite: AS.171.102 or AS.171.104 or AS.171.106	1.00	24	M 1:30-4:20PM				Students must have completed Lab Safety training prior to registering for this class.	
AS.173.112	02	N		<b>General Physics Laboratory II</b>	1.00	24	M 1:30-4:20PM					
AS.173.112	03	N		<b>General Physics Laboratory II</b>	1.00	24	M 1:30-4:20PM					
AS.173.112	04	N		<b>General Physics Laboratory II</b>	1.00	24	T 1:30-4:20PM					
AS.173.112	05	N		<b>General Physics Laboratory II</b>	1.00	24	T 1:30-4:20PM					
AS.173.112	06	N		<b>General Physics Laboratory II</b>	1.00	24	T 1:30-4:20PM					
AS.173.112	07	N		<b>General Physics Laboratory II</b>	1.00	24	W 1:30-4:20PM					
AS.173.112	08	N		<b>General Physics Laboratory II</b>	1.00	24	W 1:30-4:20PM					
AS.173.112	09	N		<b>General Physics Laboratory II</b>	1.00	24	W 1:30-4:20PM					
AS.173.112	10	N		<b>General Physics Laboratory II</b>	1.00	24	Th 1:30-4:20PM					

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AS.173.112	11	N		General Physics Laboratory II	1.00	24	Th 1:30-4:20PM					
AS.173.112	12	N		General Physics Laboratory II	1.00	24	Th 1:30-4:20PM					
AS.173.112	13	N		General Physics Laboratory II	1.00	24	Th 9:00-11:50AM					
AS.173.112	14	N		General Physics Laboratory II	1.00	24	M 6:00-8:50PM					
AS.173.112	15	N		General Physics Laboratory II	1.00	24	M 6:00-8:50PM					
AS.173.112	16	N		General Physics Laboratory II	1.00	24	T 6:00-8:50PM					
AS.173.112	17	N		General Physics Laboratory II	1.00	24	T 6:00-8:50PM					
AS.173.112	18	N		General Physics Laboratory II	1.00	24	T 6:00-8:50PM					
AS.173.112	19	N		General Physics Laboratory II	1.00	24	W 6:00-8:50PM					
AS.173.112	20	N		General Physics Laboratory II	1.00	24	W 6:00-8:50PM					
AS.173.112	21	N		General Physics Laboratory II	1.00	24	W 6:00-8:50PM					
AS.173.112	22	N		General Physics Laboratory II	1.00	24	Th 6:00-8:50PM					



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AS.173.112	23	N		<b>General Physics Laboratory II</b>	1.00	24	Th 6:00-8:50PM					
AS.173.116	01	N		<b>Electricity and Magnetism Laboratory</b> <i>Chien, Chia Ling</i> Experiments chosen to complement Electricity and Magnetism AS.171.106 and introduce students to experimental techniques and statistical analysis.	1.00	24	M 6:00-8:50PM				Students must have completed Lab Safety training prior to registering for this class.	
AS.173.308	01	N	W	<b>Advanced Physics Laboratory</b> <i>Marriage, Tobias</i> A broad exposure to modern laboratory procedures such as holography, chaos, and atomic, molecular, and particle physics.	3.00	20	M 1:30-4:20PM				Students must have completed Lab Safety training prior to registering for this class.	
AS.173.308	02	N	W	<b>Advanced Physics Laboratory</b>	3.00	20	M 10:00AM-12:50PM					
AS.173.312	01	N		<b>Mentoring in General Physics Laboratory</b> <i>Chien, Chia Ling</i> This course provides students who have to 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. Permission of the instructor required. S/U only.	1.00	15	TBA				AS.173.111 AND AS.173.112; Students must have completed Lab Safety training prior to registering for this class.	

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AS.070.294	01	HS		<b>Political Anthropology of Africa</b> <i>Obarrio, Juan M</i> The course will explore classical and contemporary ethnographies of the political in Africa, examining how their authors address issues of power, hierarchy and symbol. We will study various articulations of state, ethnicity and community that are analyzed by observing relations between power and resistance or between law, economy and violence through war, custom and ritual. The seminar will also address the way in which Africa has been constituted as a key source of the sub-field of political anthropology through colonial trajectories, postcolonial detours and the political imagination of the past and the future.	3.00	30	M 4:30-6:50PM					
AS.190.102	01	S		<b>Introduction To Comparative Politics</b> <i>Jabko, Nicolas</i> To understand politics, the sound bites of the modern media take us only so far. In this course, we will take a step back and implement an intellectually rigorous method. Scholars of comparative politics use the method of comparison in order to illuminate important political phenomena of our times. Following this method, we will embark on a scholarly tour of the world and compare the politics of various countries. We will also trace these politics back to their historical sources. We will work from the assumption that there is something to be gained from such comparisons across space and time.	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM			Freshmen seats held 10; Seats for All ASEN students 10		
AS.190.102	02	S		<b>Introduction To Comparative Politics</b>	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM					
AS.190.102	03	S		<b>Introduction To Comparative Politics</b>	3.00	20	F 3:00-3:50PM; MW 11:00-11:50AM					

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AS.190.102	04	S		Introduction To Comparative Politics	3.00	20	F 3:00-3:50PM; MW 11:00- 11:50AM					
AS.190.102	05	S		Introduction To Comparative Politics	3.00	20	MW 11:00- 11:50AM; F 9:00- 9:50AM					
AS.190.102	06	S		Introduction To Comparative Politics	3.00	20	MW 11:00- 11:50AM; F 10:00 -10:50AM					
AS.190.102	07	S		Introduction To Comparative Politics	3.00	20	F 4:00-4:50PM; MW 11:00- 11:50AM					
AS.190.102	08	S		Introduction To Comparative Politics	3.00	20	F 4:00-4:50PM; MW 11:00- 11:50AM					

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AS.190.226	01	S		<b>Global Governance</b>  <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	MW 9:00-9:50AM; F 9:00-9:50AM			Freshmen seats held 5; Seats for All ASEN students 15		
AS.190.226	02	S		<b>Global Governance</b>	3.00	20	MW 9:00-9:50AM; F 9:00-9:50AM					
AS.190.226	03	S		<b>Global Governance</b>	3.00	20	MW 9:00-9:50AM; F 10:00-10:50AM					
AS.190.226	04	S		<b>Global Governance</b>	3.00	20	MW 9:00-9:50AM; F 10:00-10:50AM					
AS.190.301	01	S	W	<b>Global Political Economy</b>  <i>Marlin-Bennett, Renee</i>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM					

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				Examines the intersection of politics and economics in global affairs. Focuses on theoretical approaches to global political economy; institutions of governance of the global political economy; flows of goods, services, capital, and information; and transborder problems. Recommended Course Background: AS.190.209				Not open if you have previously taken AS.190.216.			Not open if you have previously taken AS.190.216.	
AS.190.301	02	S	W	<b>Global Political Economy</b>	3.00	20	MW 10:00-10:50AM; F 9:00-9:50AM					
AS.190.308	01	S		<b>Democracy and Dictatorship: Theory and Cases</b> <i>Mazzuca, Sebastian L</i> The course will cover three topics: 1) The conceptualization of political regime, democracy and authoritarianism. We will also consider neighboring concepts of other macro-political structures—government, state, and administration—in order to be able to demarcate what is distinctive about the study of political regimes. 2) The characterization of political regimes in most Western and some non-Western countries, in history and today. We will centrally focus on the so called “Waves of Democratization,” but we will also consider stories with less happy outcomes, that is, processes that led to the breakdown of democracies and the installation of repressive dictatorships. 3) The explanation(s) of the stability and change of political regimes around the world. Theoretical accounts of regime change come in many flavors—emphasis on economic versus political causes, focus on agents and choices versus structures and constraints, international versus domestic factors, among others. We will consider most of them.	3.00	25	TTh 4:30-5:45PM					
AS.190.313	01	S	W	<b>Dreams of America</b> <i>Bennett, Jane</i>	3.00	30	TTh 12:00-1:15PM					





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AS.190.380	01	S	W	<b>The American Welfare State</b> <i>Schlozman, Daniel</i> This course analyzes the distinctive US welfare state in historical and comparative perspective. We begin with a survey of the policy context, an historical overview from the poorhouses through the Great Society, and a tour of welfare states across the rich democracies. We then survey developments – and explain the actual workings of policy – across jobs, education, welfare, pensions, and health care. We explore the institutional and political factors behind their divergent trajectories through conservative revival and the age of Obama. Students will write a seminar paper exploring policy development over time in a program or area of their choosing. Enrollment restricted to Social Policy minors only.	3.00	15	Th 1:30-3:50PM		Z Minor Social Policy		AS.360.380	
AS.190.381	01	S	W	<b>Global Environmental Politics</b> <i>Allan, Bentley</i>	3.00	30	M 1:00-3:50PM					
AS.190.397	01	S	W	<b>States and Markets</b> <i>Mazzuca, Sebastian L</i> The course offers an introduction to the relation between politics and economics by focusing on the interaction between the two most important institutions of the modern world: states and markets. Under what conditions do states and markets combine to promote or damage human welfare? Essential concepts, theories and cases of economic development will be examined.	3.00	20	TTh 3:00-4:15PM					
AS.190.398	01	S	W	<b>Politics Of Good &amp; Evil</b> <i>Connolly, William E</i>	3.00	15	M 1:30-3:50PM					





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AS.190.434	01	S		<b>The Future of Israel: Threats and Opprtunities</b> <i>David, Steven R</i> Israel is one of the only countries whose existence is openly challenged. This class will examine the future of Israel focusing on international and domestic threats to its continued existence as a Jewish democracy. Outside threats to be considered include nuclear attack and the growing international movement to delegitimize Israel. Domestic challenges include demographic changes, the role of religion in governance, and doubts as to whether one can be a Jewish state and still be a democracy. Lessons from the destruction of the ancient Israelite kingdoms and from contemporary state deaths will be included. The course will conclude by considering efforts that Israel can undertake to meet the threats it faces.	3.00	15	W 1:30-3:50PM					
AS.190.438	01	S		<b>Violence and Politics</b> <i>Ginsberg, Benjamin</i>	3.00	20	W 1:30-3:50PM					

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				<p>This seminar will address the role of violence—both domestic and international—in political life. Though most claim to abhor violence, since the advent of recorded history, violence and politics have been intimately related. States practice violence against internal and external foes. Political dissidents engage in violence against states. Competing political forces inflict violence upon one another. Writing in 1924, Winston Churchill declared—and not without reason—that, "The story of the human race is war." Indeed, violence and the threat of violence are the most potent forces in political life. It is, to be sure, often averred that problems can never truly be solved by the use of force. Violence, the saying goes, is not the answer. This adage certainly appeals to our moral sensibilities. But whether or not violence is the answer presumably depends upon the question being asked. For better or worse, it is violence that usually provides the most definitive answers to three of the major questions of political life--statehood, territoriality and power. Violent struggle, in the form of war, revolution, civil war, terrorism and the like, more than any other immediate factor, determines what states will exist and their relative power, what territories they will occupy, and which groups will and will not exercise power within them.</p>								
AS.190.450	01	S		<p><b>Power</b> <i>Marlin-Bennett, Renee</i></p> <p>Power is a -- if not the -- key concept of international relations, yet there is no single definition of power that is accepted by all scholars in the field. In this course we will critically examine definitions of power from classic and contemporary works of international relations, political science, and related areas of study.</p>	3.00	20	M 1:30-3:50PM					
AS.190.499	01	S	W	<p><b>Senior Thesis:International Relations/Political Science</b> <i>Staff</i></p>	6.00	40	TBA					

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				Seniors also have the opportunity to write a senior research thesis. To be eligible to write this thesis, students must identify a faculty sponsor who will supervise the project. Once a faculty sponsor has approved a topic, students must enroll in a three credit independent study during the fall semester of their senior year. At the end of the fall semester, if the faculty sponsor determines that adequate progress has been made and the project warrants further work, the student may enroll in the senior thesis (AS.190.499) which will be worth 6 credits.								
AS.191.314	01	S		<b>Business and Politics</b> <i>Staff</i> This course will examine the multifaceted relationship between government, politics, and business. We will examine the role of business in American domestic policy and politics, including the historical development of the American political economy and the continued role of the government in American economic development. The course will also investigate the nexus of business and government in comparative perspective, looking at both developing and developed nations. The course will focus on the role of business as a political actor and the interaction between business and government in the policy process. The course will examine topics including the politics of regulation and theories of state capture, the role of the state in economic development, interest group formation, maintenance, and influence, and the delegation of governing responsibility and authority to private actors. The course will revolve around questions of how business participates in the political process and influences policymaking through lobbying and elections. The course will be designed around a combination of theoretical readings and discussions with case studies that explore policy areas such as healthcare, pharmaceuticals, tobacco, and finance.	3.00	20	W 3:00-5:50PM					

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AS.191.331	01	S	W	<b>Interest Group Politics and Advocacy</b> <i>Fernandes, Devin Steven</i> Interest groups play a central though at times controversial role in US politics. This course explores practical questions about how they emerge and seek to influence policy. It also considers their place in politics in light of theories of representation.	3.00	20	TTh 10:30-11:45AM					
AS.191.334	01	S		<b>Competing American Exceptionalisms</b> <i>Cha, Taesuh</i> This course explores diverse definitions and theoretical explanations of American exceptionalism in US intellectual history. Also, it investigates the political/academic debates surrounding the role of exceptionalism in American foreign policy.	3.00	15	Th 3:00-5:20PM					
AS.191.337	01	S		<b>Mass Incarceration and American Politics</b> <i>Dagan de Picciotto, David</i> This course examines why the United States quintupled its incarceration rate over the last 40 years to become the world's leading jailer and explores the consequences for American politics.	3.00	15	T 1:30-3:50PM					
AS.191.341	01	S	W	<b>Postcolonialism, Postdevelopment: Renewing Politics Through Critical Thinking</b> <i>Zille, Tullio R</i> This seminar exposes students to tools for thinking critically about life and politics by introducing them first, to important texts in postcolonial studies, and second, to debates about development and its current criticisms.	3.00	16	TTh 1:30-2:45PM					
AS.216.398	01	H		<b>Zionism: Literature, Film, Thought</b> <i>Stahl, Neta</i>	3.00	15	TTh 10:30-11:45AM					



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AS.230.357	01	S	W	<b>Baltimore as an Urban Laboratory</b> <i>Deluca, Stefanie</i> This course uses the city of Baltimore as a lens through which to explore issues of urban inequality. We will focus on Baltimore's history of racial segregation and concentrated poverty, and its effect on the social and economic well-being of the city and its residents, with attention to education, employment, health and crime. Students will learn how to employ Census data, GIS approaches, and sociological research to inform questions about population change, inequality and the distribution of resources across the city and metropolitan region. Students will also work on one or more policy relevant studies based in Baltimore, including: a project on abandoned and vacant housing, a desegregation intervention, and a longitudinal study of inner city youth. Finally, students will become familiar with Baltimore City's programs and policy approaches to addressing the city's most pressing problems, and will design innovative and effective and innovative solutions as part of their course assignments. Enrollment restricted to Social Policy minors only.	3.00	15	W 4:00-6:30PM					
AS.230.374	01	S	W	<b>Poverty and Public Policy</b> <i>Edin, Kathryn</i> This course examines the causes and consequences of U.S. urban poverty, it's implications for health and wellbeing, and explores strategies for addressing it. We cover the major theoretical explanations scholars have advanced to explain the persistence of urban poverty including labor markets, residential segregation, welfare policy, family structure, and the criminal justice system. Within each topic area, students are introduced to a range of interventions aimed at alleviating urban poverty. Students will conduct a formal policy analysis of 20 pages and participate in a mock congressional hearing. Enrollment restricted to Social Policy minors only.	3.00	15	M 3:30-6:00PM	Students that took Z Minor Social 360.372 may not take AS.230.374. Will meet in Mergenthaler 537.	Z Minor Social Policy	Students that took AS.360.372 may not take AS.230.374.		
AS.310.352	01	S		<b>Current Issues in US-Asia Relations: A Practitioner's View</b> <i>Staff</i>	3.00	19	T 6:00-8:50PM					

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				We will examine how major political events, players, norms and institutions have shaped US-Asia relations in the modern era.								
AS.360.331	01	S		<b>Methods for Policy Research</b> <i>Morgan, Barbara Anne</i> This course will introduce students to quantitative methods for studying social policy problems. Topics to be covered include descriptive statistics and sampling, correlation and causation, simple and multiple regression, experimental methods, and an introduction to cost-benefit analysis. The emphasis will be on the selection, interpretation and practical application of these methodologies in specific policy settings, rather than with formal proofs. Skills will be reinforced by hands-on exercises using statistical software. Over the course of the semester, students will critically analyze policy reports and empirical research in a range of policy areas and learn how to present this research to a non-specialist audience. Finally, we will discuss the pros and cons of quantitative vs. qualitative methodologies. The course will conclude with group presentations that draw on all these skills. Enrollment restricted to Social Policy minors only.	3.00	15	Th 4:00-6:00PM	Will meet in Mergenthaler 537.	Z Minor Social Policy			





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## Program in Latin American Studies

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AS.010.366	01	H		<b>Native American Art</b> <i>Deleonardis, Lisa</i> The works of Native American artists are examined and discussed in their respective social and historical contexts. Such works include Hopewell stone sculpture, Mimbres pictorial painting, and Tlingit guardian figures. We examine the concept of sacred landscape through analysis of monumental earthworks and effigy mounds, Anasazi architecture, and rock art. In conjunction with the Baltimore Museum of Art (BMA), and Johns Hopkins Special Collections, students will have access to collections for study.	3.00		TTh 10:30-11:45AM					
AS.010.407	01	H		<b>Ancient Americas Metallurgy</b> <i>Deleonardis, Lisa</i> Centering on a series of case studies, this course addresses the technology, aesthetics, and social significance of metals. We trace the development of metals from 1500 BCE in Chile and Peru, to the 16th century in Colombia and central Mexico, pausing to examine its forms and meanings in various cultural contexts, and the ideas that inform its value. In conjunction with the Baltimore Museum of Art (BMA), the Walters Art Museum (WAM), and the Johns Hopkins Archaeology Museum (JHUAM), students will have access to ancient metal works for study.	3.00	25	TTh 1:30-2:45PM					

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## Program in Latin American Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.140.390	01	HS		<b>Science and Technology in Latin America</b>  <i>Portuondo, Maria M</i> The course surveys the development of western science and technology in Hispanic America (1492 to the present). We begin studying the hybridization of scientific practices between European and Native American cultures during the early colonial era and end with the transfer of technologies and industrialization of the 20th century. We emphasize the role on science and technology in state formation, the acculturation of foreign ideas in colonial and postcolonial societies, and the role of intellectual elites in modernization programs.	3.00	20	TTh 10:30-11:45AM					
AS.210.177	01			<b>Portuguese Elements</b>  <i>De Azeredo Cerqueira, Flavia Christina</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 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. Students wishing to retain credits for Portuguese Elements I must complete Portuguese Elements II with a passing grade.	4.00	17	WF 12:00-1:15PM					

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## Program in Latin American Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.210.392	01	H	W	<b>Advanced Portuguese: Language and Literature II</b> <i>De Azeredo Cerqueira, Flavia Christina</i> This course focuses on reading, writing, and oral expression. Under the supervision of the instructor, students will read several works by major Brazilian, Portuguese, and/or Afro-Portuguese writers, followed by intensive writing and oral discussion on the topics covered. Grammar will be reviewed as necessary. The course is conducted entirely in Portuguese. No satisfactory/unsatisfactory.	3.00	15	MWF 9:00-9:50AM	May not be taken Satisfactory/Unsatisfactory.			Prerequisite: AS.210.391 or equivalent score on placement test.	
AS.211.380	01	H		<b>Modern Latin American Culture</b> <i>Staff</i> Taught in Spanish. This course will explore the fundamental aspects of Latin- America culture from the formation of independent states through the present—in light of the social, political, and economic histories of the region. The course will offer a general survey of history of Latin- America, and will discuss texts, movies, songs, pictures, and paintings, in relation to their social, political, and cultural contexts. May not be taken satisfactory/unsatisfactory.	3.00	17	MW 4:30-5:45PM					
AS.211.380	02	H		<b>Modern Latin American Culture</b>	3.00	17	TTh 10:30-11:45AM					
AS.215.338	01	H		<b>Introduccion a la literatura argentina</b> <i>Altschul, Nadia</i>	3.00	15	T 1:30-4:00PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>	
				La literatura se enmarca en la realidad social y es una ventana hacia la cultura. En esta introducción consideraremos diferentes temas de especial importancia en la cultura y literatura argentina, como la separación entre la ciudad (puerto, civilización, contacto europeo) y el campo (provincias, barbarie, tradicionalismo rural) que empieza con el texto fundacional de Domingo F. Sarmiento, Facundo. Observaremos asimismo que esta influyente dicotomía que se establece con la independencia política es modificada con la llegada masiva de inmigrantes a fin de siglo y finalmente pierde su fuerza con la dictadura militar de los años '70 y con el desencanto neoliberal que estalla con la crisis del 2001.				Recommended course background: Advanced Spanish I (AS.210.311)					
AS.215.484	01			<b>Orientalismo al Sur</b> <i>Altschul, Nadia</i> Taught in Spanish. Este curso examina la presencia del Islam y el concepto del "oriente" en el Cono Sur, especialmente Argentina. Leeremos obras de los siglos 19 y 20 que representan al oriente, y discutiremos los significados y cambios que la llegada de inmigrantes "islámicos" produjo en la cultura literaria de esta zona de América Latina. Tendremos en cuenta de forma particular que el problema del "oriente" en España y sus colonias es un problema "interno". Debido a que la península ibérica tuvo una importante presencia musulmana durante toda la edad media (711-1609), en los círculos europeos España fue considerada "islámica" u "oriental" también durante los tiempos modernos. Es así que el Oriente llega a América con la conquista de los españoles "islamizados." Cross-listed with PLAS	3.00	15	M 1:30-4:00PM	Waived language required by placement exam or permission of instructor may substitute for Advanced S					
AS.230.346	01	S		<b>Economic Sociology of Latin America</b> <i>von der Heydt-Coca, Magda Zonia</i>	3.00	19	TTh 12:00-1:15PM						

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				<p>This course will offer an overview of Latin America's economic reality as an intertwined process of economic and political domestic factors within the constraints of the world economy. Latin American development will be analyzed from a historical perspective. The first half of the semester the course will focus on the analysis of the economic developmental patterns starting in the middle of the 19th century to the populist era in the middle of the 20th century. In the second half of the semester, we will analyze in depth the contemporary neoliberal approach to development. Globalization is the force that drives economic, social and political processes in Latin America. The course will include case studies as well the social conflicts generated by the increasing polarization of the society. Students will be exposed to important sociological theories.</p>								
AS.361.130	01	HS		<p><b>Introduction to Latin American Studies</b> <i>Gonzalez, Eduardo; Paquette, Gabriel</i></p> <p>This course provides an introduction to the study of Latin American cultures and societies from the vantage point of city life and urban representation. We will engage literatures from a variety of disciplines to discuss how issues such as modernization and urbanization processes; tradition, identity and ethnicity; class, marginality and urban social movements; gender and the changing status of women; arts and literature are experienced and represented in the Latin American urban environments.</p>	3.00	20	W 1:30-4:00PM					
AS.361.170	01	HS		<p><b>NI DE AQUI NI DE ALLA: Introduction to Latino Studies</b> <i>Solis, Santiago</i></p> <p>Through readings and discussion of texts, viewing of films and performance art, this course studies varied histories of Mexican, Puerto Rican, Cuban and other Latin American peoples in the U.S. Students will develop a general understanding of major issues facing Latinos/as in the 21st century as well as gain an understanding of the impact Latino culture has on US society and politics.</p>	3.00	25	T 6:30-8:50PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.361.319	01	S	W	<b>Law and Political Imagination in Latin America</b> <i>Krauss, Amy Beth</i> This course builds a critical perspective on law and state-formation through intellectual debates and traditions in Latin America. Drawing from texts in legal theory and philosophy, legal anthropology, and ethnography, we will survey different ways law has been imagined in relationship to community, violence, and sovereignty in Latin America.	3.00	15	TTh 1:30-2:45PM					

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## Program in Museums and Society

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.140.320	01	HS		<b>Modernity on Display: Technology and Ideology in the Era of World War II</b> <i>Kargon, Robert H; Molella, Arthur</i> Seminar focuses on ideological at World's Fairs over technological modernity with special emphasis upon World War II and the Cold War.	3.00	20	T 1:30-3:50PM					
AS.389.105	01	H	W	<b>Freshman Seminar: Art in the Museum</b> <i>Kingsley, Jennifer P</i> Go behind the scenes of local art museums to explore fundamental concepts and social issues particular to the collection and display of art in the past and today.	3.00	15	Th 1:30-3:50PM	Class usually meets 1:30-3:50 except for days with field trips.	Freshmen Only			
AS.389.202	01	HS		<b>Introduction to the Museum: Issues and Ideas</b> <i>Rodini, Elizabeth</i> This course considers the practical, political, and ethical challenges facing museums today, including the impact of technology and globalization, economic pressures, and debates over the ownership and interpretation of culture.	3.00	15	TTh 1:30-2:45PM					
AS.389.205	01	H		<b>Examining Archaeological Objects</b> <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.	3.00	14	F 1:30-3:50PM					



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## Program in Museums and Society

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.389.250	01	H		<b>Conservation of Material Culture: Art, Artifacts and Heritage Sites</b> <i>Trusheim, Lorraine</i> Alongside specialists in area museums, we explore the conservation of material culture in various media. Topics include manufacturing methods and material degradation as well as conservation treatments, science, and ethics. Cross-listed with History of Art.	3.00	10	W 2:00-4:30PM					
AS.389.302	01	H		<b>The Virtual Museum</b> <i>Kingsley, Jennifer P</i> Course draws on both classic readings in material culture and emerging theories of the digital to consider how the internet has changed objects and the institutions that collect, preserve, display and interpret them. Students will contribute to an established virtual museum and create their own.	3.00	12	TTh 12:00-1:15PM					
AS.389.354	01	H		<b>Paper Museums: Exhibiting Artists' Books at the Baltimore Museum of Art</b> <i>Hoisington, Rena</i> Students work with BMA collection and staff to develop and organize an exhibition of artists' books. Various aspects of museum work are explored, including research, interpretation, presentation, programming, and marketing. M&S practicum course.	3.00	12	M 2:00-4:30PM					

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AS.389.355	01	H	W	<b>Literary Culture in the Nineteenth-Century Library</b> <i>Dean, Gabrielle</i> What did people actually read in the nineteenth century? What can we learn from their books and magazines? In this class, we read nineteenth-century English and American literary works and examine nineteenth-century literary objects from the collection of the George Peabody Library, to better understand the cultural and material environments within which literary works circulated. Featured writers likely to include Edgar Allan Poe, Charles Dickens, Harriet Beecher Stowe, Emily Dickinson, Mark Twain, Stephen Crane. Several field trips to the Peabody Library throughout the semester.	3.00	15	T 2:00-4:30PM					
AS.389.372	01	H	W	<b>Zoos as Community Institutions</b> <i>Finkelstein, Lori</i> This course examines zoos and living collections from historical and contemporary perspectives, taking into account the potentially conflicting role of zoos as conservation organizations, educational institutions, and entertainment venues. The class culminates in the creation of conservation education content for Baltimore City elementary school children. M&S practicum course.	3.00	20	TTh 3:00-4:15PM					
AS.389.375	01	H		<b>Museums and Social Responsibility: Baltimore After the Unrest</b> <i>Maloney, Elizabeth</i> Do museums have a social responsibility? What roles should they play in their communities? Should they be agents of social change or social justice? This course explores the ways in which museums engage with local communities. Students work in partnership with a specific museum to develop an original and fundable proposal as a response to protests in Baltimore in the wake of the death of Freddie Gray. Field trips and guest speakers will be a key feature of the course. M&S practicum course. CBL course. Cross-listed with Sociology.	3.00	12	W 1:30-5:00PM	Class usually meets 1:30-3:50 except for days with field trips.				

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## Psychological &amp; Brain Sciences

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.200.133	01	S		<b>Introduction to Social Psychology</b> <i>Drigotas, Stephen M</i> An introductory survey of social psychology. Topics include social perception, social cognition, attitudes, prejudice, attraction, social influence, altruism, aggression, and group behavior.	3.00	450	MWF 11:00-11:50AM			Freshmen seats held 150; Seats for All ASEN students 300		
AS.200.141	01	NS		<b>Foundations of Brain, Behavior and Cognition</b> <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.200.159	01	S		<b>Freshmen Seminar: Evolutionary Psychology</b> <i>Egeth, Howard E</i> In this course we discuss evolutionary psychology, which is the idea that the mind can be understood as an adaptation to our ancestral environment by means of natural selection. Freshmen only.	1.00	13	T 2:00-2:50PM		Freshmen Only			
AS.200.202	01	S		<b>Forensic Psychology</b> <i>Raifman, Lawrence J</i> The field of forensic psychology is focused on answering legal questions about the causes of human behavior. This survey course will explore the work that forensic psychologists do; their research, assessment, and clinical methods; and how their work influences lawyers, judges, and other legal practitioners. Specific topics will include mental capacity assessment, psychopathy, claims of mental distress, child custody evaluations, juvenile delinquency, forensic treatment, and forensic neuropsychological assessments.	3.00	100	TTh 1:30-2:45PM				Students can only receive credit for AS.200.202 or AS.200.325, not both.	
AS.200.204	01	S	W	<b>Human Sexuality</b> <i>Kraft, Chris S</i>	3.00	25	T 12:00-2:30PM					

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				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. 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. Formerly taught as AS.200.302.					Juniors Only; Seniors Only		Students may enroll in both AS.200.204 and AS.290.420, but cannot do so in the same semester.	
AS.200.204	02	S	W	<b>Human Sexuality</b>	3.00	25	T 9:00-11:30AM					
AS.200.208	01	NS		<b>Animal Behavior</b> <i>Bohn, Kirsten M</i> Examines basic principles of animal behavior (orientation, migration, communication, reproduction, parent-offspring relations, ontogeny of behavior and social organization). Evolution and adaptive significance of behavior will be emphasized.	3.00	180	TTh 1:30-2:45PM				Prereqs: AS.020.151 AND ( AS.110.106 OR AS.110.108)	
AS.200.212	01	S		<b>Abnormal Psychology</b> <i>Papadakis, Alison Moog Aubrecht</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 12:00-1:15PM			Freshmen seats held 25; Seats for All ASEN students 175		
AS.200.301	01	HS		<b>History Of Psychology</b> <i>Hofer, Paul Jeffrey</i>	3.00	35	Th 4:30-6:50PM					

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## Psychological &amp; Brain Sciences

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				A survey of leading figures, schools, and systems in the history of psychology. The course will emphasize the development of experimental psychology in late 19th century Germany and its establishment in America at Johns Hopkins, Harvard, Chicago, and Columbia. Special topics will include the development of clinical and applied psychology and psychological testing. Juniors and seniors only. Recommended Course Background: two prior Psychology courses.					Juniors Only; Seniors Only			
AS.200.304	01	N		<b>Neuroscience of Decision Making</b>	3.00	19	TTh 9:00-10:15AM				AS.080.305 OR AS.080.205 OR AS.200.141	
				<i>Stuphorn, Veit</i> This course will survey the neural mechanisms of decision-making. Current experimental research and theory concerning selection, control, and evaluation of actions are examined in humans and animals. Topics will range from simple perceptual judgements to complex social behavior. The course involves a weekly lecture about a specific topic followed by a student presentation of a current research paper. Cross-listed with Neuroscience.								
AS.200.317	01	S		<b>Interpersonal Relations</b>	3.00	30	MW 1:30-2:45PM				Prerequisite: AS.200.133	
				<i>Drigotas, Stephen M</i> This course will investigate interpersonal processes ranging from attraction and courtship to relationship functioning and distress. Open to Psychology and Behavioral Biology majors only.					Z Major Behavioral Bio; Z Major Psychology			

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AS.200.318	01	Q		<b>Quantitative Methods for Brain Sciences</b> <i>Mysore, Shreesh Pranesh</i> Focus on frequently-used quantitative methods used in the study of brain sciences, including gaining conceptual understanding of techniques, analysis and summarization of data, extracting the process underlying a data set, explaining data as a function of variables, data visualization, etc. Enrollment is limited to undergraduate seniors and graduate students with instructor approval. Recommended Course Background: Probability & Statistics.	3.00	25	TTh 1:30-2:45PM		Seniors Only			Y
AS.200.321	01	S		<b>Child and Adolescent Psychopathology</b> <i>Papadakis, Alison Moog Aubrecht</i> This course focuses on mental disorders in children and adolescents. The course begins with an exploration of the general models and theories for why psychopathology occurs in childhood. The second portion of the course provides a systematic review of the symptoms, course, risk factors, theories, and treatments for specific disorders, including mood disorders, anxiety disorders, autism, ADHD, eating disorders, and behavioral disorders.	3.00	40	TTh 10:30-11:45AM				AS.200.212	
AS.200.328	01	S	W	<b>Theory &amp; Methods in Clinical Psychology</b> <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. Crosslisted with Behavioral Biology. Open to Senior & Junior Behavioral Biology, Cognitive Science, Neuroscience, Psychology, and Public Health majors only OR with Instructor Approval.	3.00	25	M 6:00-8:20PM		Z Major Behavioral Bio; Z Major Psychology; Z Major Cognitive Science		AS.200.212	
AS.200.336	01	S		<b>Foundations of Mind</b> <i>Feigenson, Lisa; Halberda, Justin</i>	4.00	25	TTh 1:30-2:45PM; W 10:00-10:50AM					



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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				How do nature and nurture shape the human mind? How does experience contribute to the development of visual perception, language and social reasoning? This course explores insights into these age-old questions from neuroscience and psychology. Studies of infant behavior reveal rich knowledge about objects and people in the first months of life. At the same time, experience has profound effects on behavior and neurobiology. For example, temporary absence of vision (i.e. blindness) during development permanently alters visual perception and the visual cortex. Key evidence also comes from studies of naturally occurring variation in human experience (e.g. blindness, deafness, socioeconomic and cultural differences). We will discuss what such studies of cognitive and neural function tell us about the origins of human cognition. This is a writing intensive course with weekly lectures and seminar style discussion of primary sources. Students will be required to write weekly responses to readings and a term paper.							AS.200.141 OR AS.050.105 OR AS.080.105 OR AS.050.203 OR AS.020.312 OR AS.200.386 OR (AS.080.305 AND AS.080.306 ) OR AS.080.203	
AS.200.368	01	NS		<b>Sleep, Dreams, and Altered States of Consciousness</b> <i>Allen, Richard</i>	3.00	60	TTh 4:00-5:15PM					



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				Sleep, dreaming, resting and arousal to waking represent very different states of consciousness which differ dramatically both psychologically and physiologically. This course focuses on cognitive, psychological, physiological, biological and genetic aspects characterizing each of these states with some reference to other altered states. The course includes a focus on the major pathologies affecting sleep-wake states. Clinical cases will be considered. These inform about both psychological and biological aspects of these states. The relative biological functions of each state will be evaluated with particular attention to the mystery of why we have and apparently need REM and NREM sleep. Actual physiological recordings of sleep states will be reviewed and the student will learn how these are obtained and how to evaluate these. The circadian rhythms, ontogeny and evolution of these sleep-wake states will also be covered. This will include a review of information learned from non-human animal sleep. The change from sleep to full awakening reflects change toward increasing brain organization supporting consciousness. Understanding of the neurobiology of these states will be used to explore some of the more modern and scientific concepts of human self-awareness or consciousness.								AS.080.203 OR AS.050.203 OR AS.200.101 or permission required.	

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AS.200.369	01	N		<b>Neuroscience of Motivation &amp; Reward</b>  <i>Janak, Patricia</i> This course will explore the neurobiological bases of motivated behavior, including eating, drinking, and reproduction, tracing the history of our understanding from early neuroscientific studies to the modern day, with a focus on mammalian model systems. We will discuss innate motivated behaviors, and well as how learning can guide the expression of these behaviors. Neural mediation of processes such as reward and aversion will be considered in depth, as will applications of these findings to the understanding of addiction and other behavioral disorders. The course will be a mixed lecture/seminar format; we will read original research articles and scholarly reviews.	3.00	19	TTh 12:00-1:15PM				AS.200.366. Exclude students who have taken AS.200.366.; AS.200.141 OR (AS.080.305 AND AS.080.306)	
AS.200.370	01	NS		<b>Functional Human Neuroanatomy</b>  <i>Courtney-Faruqee, Susan</i> This course examines the general organizing principles of the anatomy of the human central nervous system and how this anatomical organization relates to function, from the level of neural circuits, to systems, to behavior. Students will learn to identify neuroanatomical structures and pathways in dissections and MRI images through computerized exercises. Readings and lectures will emphasize general structure-function relationships and an understanding of the functional roles of particular structures in sensory, motor, and cognitive systems.	3.00	50	MWF 11:00-11:50AM				AS.080.250 OR AS.080.305	
AS.200.376	01	NS		<b>Psychopharmacology</b>  <i>Adwanikar, Hita M</i>	3.00	100	WF 12:00-1:15PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				Designed to provide information about how drugs affect the brain and behavior. The course focuses on biological concepts underlying structures and functions of the brain that relate to mental disorders. An introduction to neurobiology and brain function is presented as it applies to the interaction of various classes of drugs with the individual neurotransmitter systems in the brain. A brief historic review is followed by a discussion of clinical relevance. Cross-listed with Behavioral Biology and Neuroscience.							Prerequisite: AS.200.141 OR (AS.020.312 AND AS.020.306) OR (AS.080.305 AND AS.080.306) or permission required.	
AS.200.377	01	N		<b>Neuroethology</b> <i>Moss, Cynthia</i> A comparative and evolutionary approach to understanding the neural underpinnings of biologically relevant behaviors in vertebrate and invertebrate animals.	3.00	19	TTh 3:00-4:15PM				AS.020.151 or equivalent	
AS.200.386	01	S		<b>Animal Cognition</b> <i>Holland, Peter C</i> Examine relations between brain, mind, and behavior in nonhuman animals, focusing on topics such as learning, memory, attention, decision-making, navigation, communication, and awareness. We will take a variety of approaches, including behavioral, computational, evolutionary, neurobiological, and psychological perspectives.	3.00	30	TTh 9:00-10:15AM				Prerequisites: (AS.200.141 OR AS.200.208 OR AS.290.101) OR permission of instructor.	
AS.200.388	01	S		<b>Occupational Health Psychology</b> <i>Roberts Fox, Heather</i>	3.00	25	TTh 1:30-2:45PM					

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## Psychological &amp; Brain Sciences

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				Occupational Health Psychology (OHP) concerns the application of psychology to improving the quality of work life, and to protecting and promoting the safety, satisfaction, health, and well-being of workers. This course will consider a broad range of topics in OHP including the role of work on well-being, job stress and burnout, diversity and work, safety climate, work-family balance, conflict, and counterproductive work behaviors. The emphasis will be on drawing connections between OHP theory and OHP practice and at the relationship between individual and organizational health and well-being. This class should be of interest to students interested in industrial/organizational psychology, social psychology, health psychology, clinical psychology, human factors, public health, preventive medicine, and industrial engineering.								
AS.290.420	01	S	W	<b>Human Sexual Orientation</b> <i>Jarema, Ann; Kraft, Chris S</i>	3.00	25	T 3:00-5:30PM		Juniors Only; Seniors Only		Students may enroll in both AS.200.204 and AS.290.420, but cannot do so in the same semester.	

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## Public Health Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.140.146	01	HS		<b>History of Public Health in East Asia</b>  <i>Hanson, Marta</i> This course examines the history of disease, epidemics, and public health responses in East Asia from the 17th-20th centuries. This public health history emphasizes the interactions, connections, and comparisons among China, Japan, Korea, and Taiwan.	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM			Freshmen seats held 5; Seats for All ASEN students 15		
AS.140.146	02	HS		<b>History of Public Health in East Asia</b>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM					
AS.140.146	03	HS		<b>History of Public Health in East Asia</b>	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM					
AS.180.252	01	S	W	<b>Economics of Discrimination</b>  <i>Morgan, Barbara Anne</i> This course examines labor market discrimination by gender, race and ethnicity in the United States. What does the empirical evidence show, and how can we explain it? How much of the difference in observed outcomes is driven by differences in productivity characteristics and how much is due to discrimination? How have economists theorized about discrimination and what methodologies can be employed to test those theories? What has been the impact of public policy in this area; how do large corporations and educational institutions respond; and what can we learn from landmark lawsuits? The course will reinforce skills relevant to all fields of applied economics, including critical evaluation of the theoretical and empirical literature, the reasoned application of statistical techniques, and analysis of current policy issues.	3.00	30	MW 1:30-2:45PM	This course is for freshmen, sophomores and juniors. This course is not open to seniors.	Freshmen Only; Sophomores Only; Juniors Only		Prerequisite: AS.180.102	
AS.230.150	01	S		<b>Issues in International Development</b>	3.00	30	TTh 9:00-10:15AM					

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				<i>Levien, Michael</i> Why do billions of people continue to suffer from poverty? Who is most likely to change this situation, what strategies should they follow, what kinds of institutions should they put into place, and what kinds of obstacles stand in the way? This course will introduce the main theoretical perspectives, debates, and themes in the field of international development since the mid-20th century. It has three sections. The first section focuses on debates about the optimal conditions and strategies for generating economic growth and on the relationship between growth, inequality, and human welfare. The second section presents micro-level assessments of various development interventions. The third section considers the role of civil society and political movements in shaping development and social change in the 21st century. Freshmen and sophomores only.					Freshmen Only; Sophomores Only	Freshmen seats held 15; Sophomores seats held 15		
AS.230.341	01	S		<b>Sociology of Health and Illness</b>	3.00	15	M 3:00-4:50PM; W 3:00-3:50PM					
				<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.								
AS.230.341	02	S		<b>Sociology of Health and Illness</b>	3.00	15	M 3:00-4:50PM; W 3:00-3:50PM					
AS.230.341	03	S		<b>Sociology of Health and Illness</b>	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM					
AS.230.341	04	S		<b>Sociology of Health and Illness</b>	3.00	15	W 4:00-4:50PM; M 3:00-4:50PM					
AS.271.107	01	N		<b>Introduction to Sustainability</b>	3.00	50	TTh 3:00-4:15PM					

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				<i>Parker, Cindy L</i> Will introduce interactions between global environment and humans, discuss meaning of sustainability, and introduce use of tools to attain sustainability such as policy, law, communication, marketing, research, advocacy, international treaties.					Freshmen Only; Sophomores Only; Z Major Global Environmental Change and Sustainability			
AS.271.360	01	N		<b>Climate Change: Science &amp; Policy</b>  <i>Waugh, Darryn; Zaitchik, Benjamin</i> Prereq: 270.103 or permission of instructor. This course will investigate the policy and scientific debate over global warming. It will review the current state of scientific knowledge about climate change, examine the potential impacts and implications of climate change, explore our options for responding to climate change, and discuss the present political debate over global warming.	3.00	50	TTh 10:30-11:45AM					
AS.280.120	01	S		<b>Lectures on Public Health and Wellbeing in Baltimore</b> <i>Leaf, Philip</i> An introduction to Urban Health with Baltimore as a case study: wellbeing, nutrition, education, violence and city-wide geographic variation. Lectures by JH Faculty, local government/service providers and advocates.	1.00	20	T 4:30-5:45PM	Grading is S/U only Section 01 is restricted to Seniors only Section 02 is restricted to Juniors onl	Seniors Only			
AS.280.120	02	S		<b>Lectures on Public Health and Wellbeing in Baltimore</b>	1.00	20	T 4:30-5:45PM			Juniors Only		
AS.280.120	03	S		<b>Lectures on Public Health and Wellbeing in Baltimore</b>	1.00	30	T 4:30-5:45PM			Sophomores Only		

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AS.280.120	04	S		<b>Lectures on Public Health and Wellbeing in Baltimore</b>	1.00	60	T 4:30-5:45PM		Freshmen Only			
AS.280.312	01	HS	W	<b>Media, Politics, and Evidence in the History of Public Health</b> <i>Buttress, Amelia</i> This writing intensive course will encourage students to consider what counts as evidence among public health professionals as well as popular audiences. Using case studies from the field of epidemiology, now emblematic of the field, students will learn about historical changes in theories of population health and disease. Through a series of writing assignments, students will interrogate the formal structure of scientific arguments and gain practice in synthesizing and communicating complex ideas to a lay audience. Juniors/Seniors Only	3.00	19	TTh 10:30-11:45AM		Juniors Only; Seniors Only		AS.280.350	
AS.280.313	01		W	<b>The Germ Theory in Literature</b> <i>Masterson, Karen</i> The Germ Theory in Literature is a writing course for science and public health majors, and for writing majors interested in science and public health. We examine the use of germs in popular literature, from 1900 to the present (with works by Paul de Kruif, Sinclair Lewis, Milton Silverman, Berton Roueché, Richard Preston, Laurie Garrett and John Barry). Students examine what happens to science when it is popularized in mainstream literature, and learn to write essays and opinion pieces using crisp, clear and purposeful prose. This course includes a writing workshop.	3.00	15	Th 10:30AM-1:00PM					



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AS.280.320	01	S		<b>Seminar on Public Health and Well-being in Baltimore</b> <i>Leaf, Philip</i> Seminar combines lectures from AS.280.120 with additional readings and discussion to more deeply address urban health issues. If you register for this course you do NOT register for AS.280.120. Course is open to Sophomores and Juniors only, or by instructor's permission.	3.00	25	T 4:30-5:45PM; Th 4:30-5:45PM		Sophomores Only; Juniors Only			
AS.280.340	01	S		<b>Fundamentals of Health Policy &amp; Management</b> <i>Steinwachs, Donald M</i> Through lectures and small group discussions, students will develop a framework for analyzing health care policy problems and gain familiarity with current issues including managed care, Medicare and the uninsured.	3.00	25	MW 3:00-3:50PM; M 4:00-4:50PM					
AS.280.340	02	S		<b>Fundamentals of Health Policy &amp; Management</b>	3.00	25	MW 3:00-3:50PM; M 4:00-4:50PM					
AS.280.340	03	S		<b>Fundamentals of Health Policy &amp; Management</b>	3.00	25	MW 3:00-3:50PM; M 4:00-4:50PM					
AS.280.340	04	S		<b>Fundamentals of Health Policy &amp; Management</b>	3.00	25	W 4:00-4:50PM; MW 3:00-3:50PM					
AS.280.340	05	S		<b>Fundamentals of Health Policy &amp; Management</b>	3.00	25	W 4:00-4:50PM; MW 3:00-3:50PM					
AS.280.340	06	S		<b>Fundamentals of Health Policy &amp; Management</b>	3.00	25	W 4:00-4:50PM; MW 3:00-3:50PM					

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AS.280.340	07	S		<b>Fundamentals of Health Policy &amp; Management</b>	3.00	25	MW 3:00-3:50PM; M 4:00-4:50PM					
AS.280.350	01	Q		<b>Fundamentals of Epidemiology</b>  <i>Phelan-Emrick, Darcy F; Saldanha, Ian Jude</i> 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. Juniors and seniors only.	4.00	25	MW 1:30-2:45PM; F 1:30-2:45PM		Juniors Only; Seniors Only			
AS.280.350	02	Q		<b>Fundamentals of Epidemiology</b>	4.00	25	MW 1:30-2:45PM; F 1:30-2:45PM					
AS.280.350	03	Q		<b>Fundamentals of Epidemiology</b>	4.00	25	MW 1:30-2:45PM; F 1:30-2:45PM					
AS.280.350	04	Q		<b>Fundamentals of Epidemiology</b>	4.00	25	MW 1:30-2:45PM; F 1:30-2:45PM					
AS.280.350	05	Q		<b>Fundamentals of Epidemiology</b>	4.00	25	MW 1:30-2:45PM; F 1:30-2:45PM					
AS.280.350	06	Q		<b>Fundamentals of Epidemiology</b>  <i>Arnold, Allyn; Phelan-Emrick, Darcy F; Saldanha, Ian Jude</i>	4.00	25	MW 1:30-2:45PM; F 3:00-4:15PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.280.360	01	S		<b>Clinical &amp; Public Health Behavior Change</b> <i>Cheskin, Lawrence J</i> This course explores the theory and practice of changing the health behaviors of individuals, and the public health and medical impact of doing so. Theoretical concepts are integrated with practical clinical applications, especially in the areas of diet and fitness. Skill building in persuasive, health-related communication will be included in smaller group discussions.	3.00	125	TTh 3:00-4:15PM	AS.280.360 is NOT open to Freshmen	Sophomores Only; Juniors Only; Seniors Only; X Rising Seniors; X Rising Juniors			
AS.280.375	01	S		<b>Cultural Factor Of Public Health</b> <i>Furr-Holden, Carolyn; Laveist, Thomas A</i> This course covers the influence of culture on public health, health policy, management and practice. It also provides background on disparities in health in the US with a particular focus on race, place, and poverty. Guest speakers include healthcare providers, managers, and policy-makers.	3.00	90	TTh 9:00-10:15AM	AS.280.375 is NOT open to Freshmen	Sophomores Only; Juniors Only; Seniors Only; X Rising Seniors; X Rising Juniors			
AS.280.380	01	S		<b>Global Health Principles and Practices</b> <i>Winch, Peter John</i> Global health addresses the staggering global disparities in health status, drawing on epidemiology, demography, anthropology, economics, international relations and other disciplines. We review patterns of mortality, morbidity and disability in low and middle income countries, starting with malnutrition, infectious diseases and reproductive health, and continuing to an emerging agenda including mental health, injury prevention, surgical care, chronic diseases, and health impacts of climate change. Gender, health systems and health workforce challenges, and career trajectories in global health are also discussed. Recommended course background: Minimum of one prior course in Public Health.	3.00	80	TTh 9:00-10:15AM	Open to Juniors and Seniors. Sophomores may enroll if they have taken AS.280.345 (Public Health Bios	Sophomores Only; Juniors Only; Seniors Only; X Rising Seniors; X Rising Juniors			
AS.280.423	01	Q		<b>Data Visualization for Individualized Health</b> <i>Coley, Rebecca Yates</i>	3.00	12	T 1:30-4:00PM					

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				This course will explore how biostatistics and data visualization can be used to improve patient care and health outcomes. Students will learn and apply key concepts of effective data visualization to applications in individualized medicine. Teams of students will work with clinician-partners of the Hopkins Individualized Health Initiative ( <a href="http://hopkinsinhealth.jhu.edu">http://hopkinsinhealth.jhu.edu</a> ) to produce interactive web applications ( <a href="http://shiny.rstudio.com">http://shiny.rstudio.com</a> ) that support clinical decision-making by communicating a patient's health state, prognosis, or expected treatment outcomes. R programming experience (AS.280.419, AS.280.346, or R programming course in coursera ( <a href="https://coursera.org/course/rprog">https://coursera.org/course/rprog</a> )) is necessary before the start of this course.							Prereq: AS.280.345	
AS.280.424	01	S		<b>The Quest for Effective Universal Health Coverage in Low and Middle Income Countries</b> <i>Bhadelia, Afsan</i> This course examines the movement to achieve effective universal health coverage with a particular focus on MICCs. It provides foundational grounding on health systems thinking to understand the key components of effective UHC and accordingly analyzes country cases to demonstrate lessons from health reforms in five LMICs.	3.00	19	MW 3:00-4:15PM			Juniors Only; Seniors Only		
AS.280.427	01	HN		<b>Communicating Science: Skills to Analyze and Communicate Science News</b> <i>Martin, Nina Maria</i> Science communication is challenging. Experts are seldom trained to translate jargon in everyday language. In this course students will expand their knowledge of the biology basics of several public health issues, develop the critical thinking needed to assess health science reporting, and practice science communication skills.	3.00	19	TTh 12:00-1:15PM	Students can also receive the instructors permission to register if they do not meet the prereqs.		Juniors Only; Seniors Only	Prereq: AS.020.151 OR AS.020.152 OR AS.020.243 OR AS.020.123 OR AP Biology.	
AS.280.499	01	S	W	<b>Honors in Public Health</b> <i>Gebo, Kelly; Schrack, Jennifer A</i>	3.00	12	TBA					

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A research methods seminar to prepare students doing honors in Public Health Studies. Permission Required.

Instructor's  
Consent Required

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## Sociology

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.230.101	01	S		<b>Introduction Sociology</b>  <i>Cherlin, Andrew J</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 11:00-11:50AM; F 10:00-10:50AM			Freshmen seats held 5; Seats for All ASEN students 10		
AS.230.101	02	S		<b>Introduction Sociology</b>	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM					
AS.230.101	03	S		<b>Introduction Sociology</b>	3.00	15	MW 11:00-11:50AM; F 12:00-12:50PM					
AS.230.101	04	S		<b>Introduction Sociology</b>	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM					
AS.230.101	05	S		<b>Introduction Sociology</b>	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM					
AS.230.101	06	S		<b>Introduction Sociology</b>	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM					
AS.230.147	01	S		<b>Introduction to Islam and Muslim Societies since 1800</b> <i>Calder, Ryan</i>	3.00	30	MW 3:00-4:15PM					

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Sociology

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				This course is an introduction to contemporary Islam and Muslim societies from approximately 1800 to the present. Key themes will include the colonial encounter, state formation and reform, revolution, Islamic revival, and globalization. Reflecting Islam's status as a world religion, the course will touch on developments around the Muslim-majority world and in the West.								
AS.230.150	01	S		<b>Issues in International Development</b>	3.00	30	TTh 9:00-10:15AM					
				<i>Levien, Michael</i> Why do billions of people continue to suffer from poverty? Who is most likely to change this situation, what strategies should they follow, what kinds of institutions should they put into place, and what kinds of obstacles stand in the way? This course will introduce the main theoretical perspectives, debates, and themes in the field of international development since the mid-20th century. It has three sections. The first section focuses on debates about the optimal conditions and strategies for generating economic growth and on the relationship between growth, inequality, and human welfare. The second section presents micro-level assessments of various development interventions. The third section considers the role of civil society and political movements in shaping development and social change in the 21st century. Freshmen and sophomores only.								
									Freshmen Only; Sophomores Only	Freshmen seats held 15; Sophomores seats held 15		
AS.230.152	01	S		<b>Housing and Schools: The Social Contexts of Inequality</b>	3.00	15	TTh 3:00-4:15PM					
				<i>Rhodes, Anna Catherine</i>								

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## Sociology

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				Where families live is still a major determinant of the quality of children's schools, and this connection between residential location and educational opportunity plays a significant role in the perpetuation of social inequality. This course will examine recent research in housing and education to develop a critical understanding of the role of social inequality, public policy, and individual choices in shaping housing and school opportunities for families. The course will focus on the intersection of residential and educational choices, by examining housing and school interventions across a host of American cities, with a particular focus on how these issues operate in our own city of Baltimore at the end of the semester.								
AS.230.202	01	S	W	<b>Research Methods for the Social Sciences</b> <i>Hao, Lingxin</i>	3.00	30	TTh 1:30-2:45PM					
				The purpose of this course is to provide a sound introduction to the overall process of research and the specific research methods most frequently used by sociologists and other social scientists. Required for Sociology majors and IS GSCD track students.								
AS.230.217	01	S	W	<b>Chinese Overseas in Global History</b> <i>Kuo, Huei-Ying</i>	3.00	19	TTh 10:30-11:45AM					Course may not be taken by students that previously took AS.230.166.
				This course examines the topics of Chinese overseas migration after the long sixteenth century. It investigates the following themes: First, the making of Chinese maritime frontier in the longterm trade and migration across the South China Sea and beyond; Second, economic functions of Chinese overseas networks in the East-West integration from the early modern era to the ongoing wave of globalization; Third, politics of identity and heritage in Chinese overseas communities. Course may not be taken by students that previously took AS.230.166.								
AS.230.244	01	S		<b>Race and Ethnicity in American Society</b> <i>Greif, Meredith</i>	3.00	19	T 3:00-5:30PM					





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Sociology

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				This course analyzes educational systems as social institutions and organizations. It gives particular attention to the often taken-for-granted ways that we structure learning in schools and their consequences for social inequality. To these ends, the course will examine classical institutional and organizational theory in sociology and evaluate these theories in their application to historical process of educational formation and the contemporary organization of K-12 schooling in the US.								
AS.230.325	01	S		<b>Global Social Change and Development Practicum</b> <i>Silver, Beverly Judith</i> This course provides "hands on" research experience in the field of global social change and development. Students will participate in a collaborative research project analyzing the causes and consequences of the recent upsurge of protest around the world in comparison with previous historical waves of social unrest. The course fulfills the "research practicum" requirement for Sociology majors and is required for the GSCD track.	3.00	15	T 4:30-7:00PM				Prereq: AS.230.265 or permission of Instructor.	
AS.230.341	01	S		<b>Sociology of Health and Illness</b> <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.	3.00	15	M 3:00-4:50PM; W 3:00-3:50PM					
AS.230.341	02	S		<b>Sociology of Health and Illness</b>	3.00	15	M 3:00-4:50PM; W 3:00-3:50PM					
AS.230.341	03	S		<b>Sociology of Health and Illness</b>	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM					

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## Sociology

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.230.341	04	S		<b>Sociology of Health and Illness</b>	3.00	15	W 4:00-4:50PM; M 3:00-4:50PM					
AS.230.346	01	S		<b>Economic Sociology of Latin America</b>  <i>von der Heydt-Coca, Magda Zonia</i> This course will offer an overview of Latin America's economic reality as an intertwined process of economic and political domestic factors within the constraints of the world economy. Latin American development will be analyzed from a historical perspective. The first half of the semester the course will focus on the analysis of the economic developmental patterns starting in the middle of the 19thcentury to the populist era in the middle of the 20thcentury. In the second half of the semester, we will analyze in depth the contemporary neoliberal approach to development. Globalization is the force that drives economic, social and political processes in Latin America. The course will include case studies as well the social conflicts generated by the increasing polarization of the society. Students will be exposed to important sociological theories.	3.00	19	TTh 12:00-1:15PM					
AS.230.355	01	S		<b>Homelessness, Vacants and the Right to Housing</b> <i>Pasciuti, Daniel</i> A Community Based Learning (CBL) course organized through the Center for Social Concern, we will collaborate with Housing Our Neighbors (HON) <a href="http://www.honbaltimore.org">http://www.honbaltimore.org</a> , a local organization comprised of people experiencing homelessness, allies and advocates promoting the human right to housing to examine and engage the vacant housing crisis in Baltimore. Students will be expected to participate in organizing and community sessions as well as ongoing research into the Baltimore vacant property market and ultimately seek to transform housing into a right for all people.	3.00	12	Th 5:00-7:30PM					
AS.230.357	01	S	W	<b>Baltimore as an Urban Laboratory</b>	3.00	15	W 4:00-6:30PM					



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Sociology

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				This course discusses how geopolitics, technology as well as social differentiation (such as race, class and gender) shape the structure of economic actions. Special attention will be paid to patterns of state-business relationship, labor processes, migrant economy, globalization and international division of labor.								
AS.230.374	01	S	W	<b>Poverty and Public Policy</b>	3.00	15	M 3:30-6:00PM					
				<i>Edin, Kathryn</i> This course examines the causes and consequences of U.S. urban poverty, it's implications for health and wellbeing, and explores strategies for addressing it. We cover the major theoretical explanations scholars have advanced to explain the persistence of urban poverty including labor markets, residential segregation, welfare policy, family structure, and the criminal justice system. Within each topic area, students are introduced to a range of interventions aimed at alleviating urban poverty. Students will conduct a formal policy analysis of 20 pages and participate in a mock congressional hearing. Enrollment restricted to Social Policy minors only.				Students that took Z Minor Social 360.372 may not take AS.230.374. Will meet in Mergenthaler 537.			Students that took AS.360.372 may not take AS.230.374.	

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.230.375	01	S	W	<b>Nations, States, and Boundaries</b> <i>Hung, Ho-Fung</i> This course explores the historical origins and development of the modern global political order based on sovereign nation-states, the crisis of this order through the twentieth century, as well as the unraveling of this order at the turn of the twenty-first century. We will focus on how dominant political organizations in the changing world order (such as states, political parties, and transnational governing bodies) have been shaped by different social forces (such as classes and ethnic groups) and vice versa. Topics covered include rise and fall of modern nationalism, formation of regional and global governing structures, "civilizational" turn of global politics, waves of separatism and redrawing of nation's boundaries after the Cold War, politics of immigration and citizenship, among others.	3.00	15	MW 1:30-2:45PM					
AS.230.385	01	S	W	<b>Schooling, Racial Inequality and Public Policy in America</b> <i>Morgan, Stephen L</i> After examining alternative explanations for why individuals obtain different amounts and types of educational training, the course focuses on how an individual's family background and race affect his or her trajectory through the educational system. The course covers the specific challenges that have confronted urban schooling in America since the 1960s, including the classic literature on the effects of school and community resources on student achievement as well as the development and later evaluation of school desegregation policies. The course also considers case studies of current policy debates in the US, such as housing segregation and school resegregation, voucher programs for school choice, and the motivation for and consequences of the establishment of state-mandated testing requirements. Throughout the course, emphasis is placed upon the alternative modes of inquiry and writing which opposing scholars, policymakers, and journalists use to address these contentious topics.	3.00	15	MW 1:30-2:45PM					

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AS.230.435	01	S	W	<b>The China Boom</b> <i>Hung, Ho-Fung</i> This course addresses the origins, global impacts, and demise of China's economic ascendancy as a world economic and political powerhouse at the turn of the twenty-first century. The course will cover the historical origins of the China boom and impacts of the boom on global political economic order. It will also address the social-political imbalances within China that contribute to the global financial crisis and recent slowdown of the Chinese economy. Particular topics include late imperial and Maoist legacies' relation to contemporary economic growth, stages of China's capitalist development, China's outward investment in the developing world, formation and limits of US-China economic symbiosis, and China's participation in global governance, among others.	3.00	15	MW 4:30-5:45PM					
AS.389.375	01	H		<b>Museums and Social Responsibility: Baltimore After the Unrest</b> <i>Maloney, Elizabeth</i> Do museums have a social responsibility? What roles should they play in their communities? Should they be agents of social change or social justice? This course explores the ways in which museums engage with local communities. Students work in partnership with a specific museum to develop an original and fundable proposal as a response to protests in Baltimore in the wake of the death of Freddie Gray. Field trips and guest speakers will be a key feature of the course. M&S practicum course. CBL course. Cross-listed with Sociology.	3.00	12	W 1:30-5:00PM	Class usually meets 1:30-3:50 except for days with field trips.				

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## Study of Women, Gender, &amp; Sexuality

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.040.218	01	H		<b>Celebration and Performance in Early Greece</b> <i>Anderson, Emily S.K.</i> Surviving imagery suggests that persons in Minoan and Mycenaean societies engaged in various celebratory performances, including processions, feasts, and ecstatic dance. This course explores archaeological evidence of such celebrations, focusing on sociocultural roles, bodily experience, and interpretive challenges.	3.00	15	T 1:30-4:00PM					
AS.100.311	01	HS		<b>National Pastimes: Sports, Culture, and American History</b> <i>Davis, Amira Rose</i> National Pastimes examines the development of sports in the United States over the course of the 20th century with a particular interest in the relationship between sports and politics as well as issues of race, gender, sexuality and class.	3.00	18	TTh 10:30-11:45PM					
AS.100.372	01	HS	W	<b>The Victorians</b> <i>Pepitone, Lauren</i> This course focuses on the politics of everyday life, consumption, intimate relations, and concepts of the self in Britain and its empire in the long nineteenth century. We devote particular attention to visual culture, entertainment, and the built environment. Course themes include popular nationalism; class differences; gender and body politics; and imperial expansion and racial thought.	3.00	15	M 1:30-3:50PM		Sophomores Only; Juniors Only; Seniors Only			
AS.180.252	01	S	W	<b>Economics of Discrimination</b> <i>Morgan, Barbara Anne</i>	3.00	30	MW 1:30-2:45PM					



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## Study of Women, Gender, &amp; Sexuality

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				This course examines labor market discrimination by gender, race and ethnicity in the United States. What does the empirical evidence show, and how can we explain it? How much of the difference in observed outcomes is driven by differences in productivity characteristics and how much is due to discrimination? How have economists theorized about discrimination and what methodologies can be employed to test those theories? What has been the impact of public policy in this area; how do large corporations and educational institutions respond; and what can we learn from landmark lawsuits? The course will reinforce skills relevant to all fields of applied economics, including critical evaluation of the theoretical and empirical literature, the reasoned application of statistical techniques, and analysis of current policy issues.				This course is for freshmen, sophomores and juniors. This course is not open to seniors.	Freshmen Only; Sophomores Only; Juniors Only		Prerequisite: AS.180.102	
AS.200.204	01	S	W	<b>Human Sexuality</b> <i>Kraft, Chris S</i>	3.00	25	T 12:00-2:30PM					
				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. 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. Formerly taught as AS.200.302.					Juniors Only; Seniors Only		Students may enroll in both AS.200.204 and AS.290.420, but cannot do so in the same semester.	
AS.200.204	02	S	W	<b>Human Sexuality</b>	3.00	25	T 9:00-11:30AM					
AS.212.362	01	H		<b>Ecrire l'héroïsme au féminin [Writing Heroism in the Feminine]</b> <i>Cariou, Lenaig</i>	3.00	15	TTh 3:00-4:15PM					

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## Study of Women, Gender, &amp; Sexuality

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				How can we define a heroine? What distinguishes heroines from mere female protagonists? Who are the main heroines to have marked the French literary tradition? This course examines how writers have transformed the notion of heroism inherited from Ancient Greece and Rome to lend it different and distinctly gendered shapes in the figure of the female hero: bravery, scandal, crime, sacrifice, nationalism. Focus will be placed on the evolution of the concept from the 17th century to the end of the 20th century in novels and plays by Racine, Madame de Lafayette, Prevost, Balzac, Maupassant, Anouilh, Wittig, and Condé. Recommended Course Background: AS.212.333 or AS.212.334.								
AS.214.171	01	H		<b>Witchcraft and Demonology in Renaissance Europe</b> <i>Stephens, Walter E</i> Who were the witches? Why were they persecuted for hundreds of years? Why were women identified as the witches par excellence? How many witches were put to death? (Answer: 30-40,000, between about 1400 and 1800.) What traits did European witchcraft share with witch-mythologies in other societies? After the witch-hunts ended, how did "The Witch" go from being "monstrous" to being "admirable" and even "sexy"? Answers are found in history and anthropology, but also in literature, folklore, music, and the visual arts. After an introduction to ancient and medieval witchcraft, we will study European witch-persecution between 1400 and 1800. The second half of the course will concentrate on artistic representations of witches in media ranging from manuscripts to movies, concentrating on Italy, France, Spain, and Germany.	3.00	18	TTh 10:30-11:45AM					
AS.290.420	01	S	W	<b>Human Sexual Orientation</b> <i>Jarema, Ann; Kraft, Chris S</i>	3.00	25	T 3:00-5:30PM					

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				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. 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.					Juniors Only; Seniors Only		Students may enroll in both AS.200.204 and AS.290.420, but cannot do so in the same semester.	
AS.300.133	01	H	W	<b>Freshmen Seminar: Women of Epic Fame in Literature and Drama, 800 BCE-1650 CE</b> <i>Patton, Elizabeth</i> From Homer's Odyssey to Shakespeare's Antony and Cleopatra, powerful women who achieve their ends by working from within the system are often overlooked or not fully explored. Our readings and discussions will foreground these women of fiction, while we also consider the social conditions of their living contemporaries. Readings will include: Homer's Odyssey (Penelope); Virgil's Aeneid (Dido); Dante's Inferno (Beatrice); Milton's Paradise Lost (Eve), and several accounts of Cleopatra in plays by Shakespeare and his contemporary women writers. Cross listed with Theater Arts, Writing Seminars, and WGS.	3.00	12	TTh 10:30-11:45AM		Freshmen Only			
AS.300.317	01	H	W	<b>Russian Novel</b> <i>Eakin Moss, Anne</i>	3.00	20	TTh 3:00-4:15PM					

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				Russian authors began writing novels in the shadow of counterparts in Western Europe, and thus had the chance to experiment with the form and scope of genres and themes they found in European literature: Alexander Pushkin's novel in verse Eugene Onegin pays homage to Byron's Don Juan and satirizes Richardson's Pamela; Mikhail Lermontov's nested stories A Hero of Our Time owes a debt to Romantic and gothic fiction, and Nikolai Gogol's Dead Souls brings Dante's Inferno to the Russian provinces. From these literary forefathers emerged the likes of Feodor Dostoevsky and Leo Tolstoy, who made a lasting impact on world literature with their psychological and philosophical novels. This course examines the Russian novel in its historical and cultural context alongside contributions of Russian literary criticism in defining novel form and genre.								
AS.300.363	01	H	W	<b>Reading Judith Shakespeare: poetry and drama by women writers in Elizabethan England (ca 1558-1650)</b> <i>Patton, Elizabeth</i> Virginia Woolf's account of the thwarted career of Shakespeare's hypothetical sister, Judith (in A Room of One's Own) frames our reading of plays and poetry by Shakespeare and contemporary women writers, including Isabella Whitney, Elizabeth Cary, Mary Sidney, Aemelia Lanyer, Mary Wroth, and others. Students will create fictional biographies of "Judith Shakespeare" and her literary accomplishments. Cross listed with English, Theater Arts, Writing Seminars, and WGS.	3.00	12	T 1:30-4:00PM					
AS.363.301	01		W	<b>Feminist and Queer Theory: Politics and Performance</b> <i>Culbert, Jennifer</i>	3.00		Th 4:00-6:30PM					

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## Study of Women, Gender, &amp; Sexuality

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				Despite the regularity with which the terms “feminist” or “queer” are invoked in public discussion, a precise definition often escapes us. This course will not define these terms once and for all, but will attempt, rather, to form a better understanding of the slipperiness of the terms and their use value in analyzing our current political situation. We consider the activist origins of feminist scholarship, why that element continues to be important, and explore the promise and limitations of liberalism, postmodernism, and more recent negative strains of queer theory as bases for political theorizing. We consider theories of performativity, which problematize the idea of a stable subject. The final unit of the course looks at representative examples of fictional and real-life portrayals, in film, TV, and on stage, of female and queer subjects.								
AS.363.304	01	H		<b>Love and Its Discontents</b> <i>Glanz, Katherine M</i>	3.00	15	T 2:30-5:00PM					
				This course aims to familiarize students with a wide-range of feminist and queer conceptions of love as a political force. While reading theoretical texts and selections of poetry, students will be encouraged to interrogate the political implications of different conceptions of love, Eros, and desire.								
AS.363.420	01	H		<b>Stories of Hysteria</b> <i>Ender, Evelyne</i>	3.00	15	W 1:30-4:00PM					

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Hysteria, an elusive and polymorphous disease associated with the female body, was first diagnosed in Greek Antiquity. When, in the late nineteenth-century, Sigmund Freud decided to study it, he made discoveries that shaped in a decisive way the new science of psychoanalysis and offered new foundations for discussions of what we might now call “psychosomatic illness.” Though rarely diagnosed nowadays, hysteria provides a fascinating introduction to medical, clinical, social, and ethical questions connected to gender that have lost none of their relevance. We will study fictional narratives from the 18th century to the present as if they were case-studies -- as a way of appraising hysteria’s changing and provocatively volatile definitions across time and in different cultural frameworks. Among our topics: trauma and PTSD, the concept of repression, masculinities, women and madness, and, above all, transformations in gender roles and identities in the modern era.

In addition to selected readings of medical and historical materials available on Blackboard, texts for study are: The Nun (Diderot), Trilby (du Maurier), Fragment of a Case of Hysteria (Freud), Regeneration (Barker), The Icarus Girl (Oyeyemi), Redeployment (Klay).

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## Theatre Arts &amp; Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.225.300	01	H		<b>Contemporary Theatre &amp; Film</b>  <i>Astin, John</i> An introduction to the performing arts, including an overview of theatre history, acting styles and the interaction of art and society. A personal view from inside.	3.00	20	TTh 10:30-11:45AM			Seniors seats held 4; Juniors seats held 4; Sophomores seats held 6; Freshmen seats held 6		
AS.225.302	01	H		<b>Acting &amp; Directing Workshop II</b>  <i>Astin, John</i> The Sanford Meisner repetition exercises are explored in detail. They form the basis of Workshop II. The Uta Hagen exercises are also pursued. As in Workshop I, the principal classroom activities will consist of scene work, exercises, lectures, and discussion. Some rehearsal will also take place during school hours. It is expected that substantial out-of-class time be spent on rehearsals and exercises. Recommended Course Background: AS.225.301	3.00	12	TTh 12:00-1:15PM	Prereq: One acting course				
AS.225.303	01	H		<b>Acting &amp; Directing Workshop III</b>  <i>Astin, John</i> Special attention is given to the development of spontaneity and emotional freedom using the principles of Workshops I and II. Hands on work with John Astin's "The Process" and the second Silverberg workbook are employed, along with the Uta Hagen text. Boleslavsky and Michael Chekhov are introduced. The Clurman, Meisner, Stanislavsky and Strasberg approaches are included. Substantial out of class time is required. Recommended Course Background: Two acting courses.	3.00	12	W 1:30-4:00PM					Y
AS.225.308	01	H		<b>Shakespeare in Performance</b>  <i>Glossman, James</i>	3.00	15	M 6:00-8:30PM					





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				For aspiring playwrights, dramaturgs, and literary translators, this course is a workshop opportunity in learning to adapt both dramatic and non-dramatic works into fresh versions for the stage. Students with ability in foreign languages and literatures are encouraged to explore translation of drama as well as adaptation of foreign language fiction in English. Fiction, classical dramas, folk and fairy tales, independent interviews, or versions of plays from foreign languages are covered.								
AS.225.328	01	H	W	<b>The Existential Drama: Philosophy and Theatre of the Absurd</b> <i>Martin, Joseph H</i> Existentialism, a powerful movement in modern drama and theatre, has had a profound influence on contemporary political thought, ethics, and psychology, and has transformed our very notion of how to stage a play. Selected readings and lectures on the philosophy of Kierkegaard, Nietzsche, Camus and Sartre -- and discussion of works for the stage by Sartre, Ionesco, Genet, Beckett, Albee, Pinter, Athol Fugard (with Nkani & Nshone), Heiner Müller and the late plays of Caryl Churchill. Opportunities for projects on Dürrenmatt, Frisch, Havel, Witkiewicz, and Mrozek.	3.00	15	M 3:00-5:30PM					
AS.225.346	01	H		<b>Creative Improvisation: For Theatre and for Life</b> <i>Denithorne, Margaret</i> An exploration of the imagination and the senses using basic techniques of improvisation: exercises, conflict resolution, ensemble building, and theatre games. Texts: Spolin, Johnstone, LaBan and Feldenkreis. Open to all students.	3.00	20	TTh 3:00-4:15PM	FIRST CLASS ATTENDANCE IS MANDATORY FOR THIS COURSE		Seniors seats held 13; Seats for Non-Seniors 7		
AS.225.346	02	H		<b>Creative Improvisation: For Theatre and for Life</b>	3.00	20	TTh 4:30-5:45PM					
AS.300.133	01	H	W	<b>Freshmen Seminar: Women of Epic Fame in Literature and Drama, 800 BCE-1650 CE</b> <i>Patton, Elizabeth</i>	3.00	12	TTh 10:30-11:45AM					

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## Theatre Arts &amp; Studies

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>	
				From Homer's <i>Odyssey</i> to Shakespeare's <i>Antony and Cleopatra</i> , powerful women who achieve their ends by working from within the system are often overlooked or not fully explored. Our readings and discussions will foreground these women of fiction, while we also consider the social conditions of their living contemporaries. Readings will include: Homer's <i>Odyssey</i> (Penelope); Virgil's <i>Aeneid</i> (Dido); Dante's <i>Inferno</i> (Beatrice); Milton's <i>Paradise Lost</i> (Eve), and several accounts of Cleopatra in plays by Shakespeare and his contemporary women writers. Cross listed with Theater Arts, Writing Seminars, and WGS.						Freshmen Only			
AS.300.353	01	H	W	<b>Present Mirth: Stages of Comedy</b> <i>Macksey, Richard A; Mehrgan, Omid</i> A comparative survey of presentational comedies from Aristophanes to Beckett on stage and screen, with some attention to to the vexed question of theories of comedy [no laughing matter].	3.00	12	Th 5:00-7:30PM	Please email Marva Philip at mphilip@jhu.edu for class location.					
AS.300.363	01	H	W	<b>Reading Judith Shakespeare: poetry and drama by women writers in Elizabethan England (ca 1558-1650)</b> <i>Patton, Elizabeth</i> Virginia Woolf's account of the thwarted career of Shakespeare's hypothetical sister, Judith (in <i>A Room of One's Own</i> ) frames our reading of plays and poetry by Shakespeare and contemporary women writers, including Isabella Whitney, Elizabeth Cary, Mary Sidney, Aemelia Lanyer, Mary Wroth, and others. Students will create fictional biographies of "Judith Shakespeare" and her literary accomplishments. Cross listed with English, Theater Arts, Writing Seminars, and WGS.	3.00	12	T 1:30-4:00PM						

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## Writing Seminars

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.061.376	01	H	W	<b>Arts and Culture Journalism: Interactive Media, Online Publishing</b> <i>Ober, Cara</i> Students will participate in the ongoing creation of BmoreArt.com, an online arts and culture publication that serves the Baltimore community. In conjunction with visiting professionals, students will investigate the Baltimore cultural community and create different types of editorial content using interactive media including film, video, sound, and writing. Students will produce creative content utilizing their individual areas of expertise - such as visual art, art history, music, literary arts, film, and theater - while working together as a professional organization. A strong emphasis will be placed on the student's collaborative participation and creative experimentation. Students with differing backgrounds in media will approach this project from unique perspectives, which will be valued and cultivated. Students with previous experience in journalism are welcome. An introductory writing or film course is suggested as a prerequisite.	3.00	15	Th 10:00AM-12:20PM			Z Major Film & Media Studies; Z Minor Film And Media Studies; Z Major Writing Seminars; Z Minor Visual Arts		
AS.211.472	01	H	W	<b>Barbers and countesses: conflict and change in the Figaro trilogy from the age of Mozart to the 20th century</b> <i>Refini, Eugenio</i>	3.00	15	T 1:30-4:00PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
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2016 marks the bicentennial of Rossini's irreverent masterwork The Barber of Seville, which premiered in Rome in February 1816. Thirty years earlier, in 1786, Mozart's The Marriage of Figaro had opened in Vienna. The two operas, based on the first two plays of Beaumarchais' controversial "Figaro trilogy", stage conflicts of class and gender, challenging the assumptions of the aristocracy as well as the ludicrous pretensions of the rising bourgeoisie. The same themes inform the post-modern portrayal of the past in John Corigliano's The Ghosts of Versailles (1991), which ideally completes the musical afterlife of the trilogy. By studying how the plays were adapted to the opera stage within their different cultural and historical contexts, the course will explore the representation of the ideological, social, and political turmoil that, eventually, culminated in the French Revolution. The course will also include field trips and screenings of movies such as Stanley Kubrick's Barry Lyndon (1975) and Milos Forman's Amadeus (1984). This course may be used to satisfy major requirements in both the French and Italian majors.

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AS.213.361	01	H		<b>The Holocaust in Film and Literature</b>  <i>Spinner, Samuel Jacob</i> How has the Holocaust been represented in literature and film? Are there special challenges posed by genocide to the traditions of visual and literary representation? Where does the Holocaust fit in to the array of concerns that the visual arts and literature express? And where do art and literature fit in to the commemoration of communal tragedy and the working through of individual trauma entailed by thinking about and representing the Holocaust? These questions will guide our consideration of a range of texts — nonfiction, novels, poetry — in Yiddish, German, English, French and other languages (including works by Elie Wiesel, Primo Levi, and Isaac Bashevis Singer), as well as films from French documentaries to Hollywood blockbusters (including films by Alain Resnais, Claude Lanzmann, and Quentin Tarantino). All readings in English.	3.00	20	MW 12:00-1:15PM					
AS.215.463	01	H	W	<b>Borges: His Fiction and Critical Essays</b>  <i>Castro-Klaren, Sara</i> This course will deal with close readings of Borges fictions and critical essays in order to determine how his thinking on the problem of writing and thinking is fictionalized in his stories.	3.00	15	W 1:30-4:00PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.216.300	01	H		<b>Contemporary Israeli Poetry</b> <i>Stahl, Neta</i> This course examines the works of major Israeli poets such as Yehuda Amichai, Nathan Zach, Dalia Rabikovitch, Erez Biton, Roni Somek, Dan Pagis, Yona Wollach, Yair Horwitz, Maya Bejerano, and Yitzhak Laor. Against the background of the poetry of these famous poets we will study recent developments and trends in Israeli poetry, including less known figures such as Mois Benarroch, Shva Salhoov and Almog Behar. Through close reading of the poems, the course will trace the unique style and aesthetic of each poet, and will aim at presenting a wide picture of contemporary Hebrew poetry.	3.00	15	T 1:30-4:00PM				Students may receive credit for AS.216.300 or AS.300.413, but not both.	
AS.216.342	01	H	W	<b>The Holocaust in Israeli Society and Culture</b> <i>Stahl, Neta</i> This course examines the role of the Holocaust in Israeli society and culture. We will study the emergence of the discourse of the Holocaust in Israel and its development throughout the years. Through focusing on literary, artistic and cinematic responses to the Holocaust, we will analyze the impact of its memory on the nation, its politics and its self-perception.	3.00	15	TTh 12:00-1:15PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.216.398	01	H		<b>Zionism: Literature, Film, Thought</b>  <i>Stahl, Neta</i> This course studies the relation between Israeli culture and Zionism. Based on a close reading of both literary and non-literary Zionist texts, we will explore the thematic, social and political aspects of the Zionist movement. The course focuses on primary sources and its main goal is to familiarize students with the history of Zionism and its influence on Israeli culture. In the last part of the semester we will investigate the different meanings of Post-Zionism through contemporary literary and non-literary texts as well as recent Israeli films. Students wishing to do additional work in Hebrew should enroll in section 2 where students will meet for an additional hour at a time TBD and will earn 4 credits for the course.	3.00	15	TTh 10:30-11:45AM				Students may receive credit for AS.216.398 or AS.300.398, but not both.	
AS.216.398	02	H		<b>Zionism: Literature, Film, Thought</b>  <i>Cohen, Zvi; Stahl, Neta</i>	4.00	5	TTh 10:30-11:45AM					
AS.220.105	02	H	W	<b>Fiction Poetry Writing I</b>  <i>Martin, Isabella Gabrielle</i> 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. This course is a prerequisite for most upper level courses. This course is part one of the year-long Introduction to Fiction and Poetry, and must be taken before AS.220.106.	3.00	15	MWF 10:00-10:50AM					

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AS.220.105	03	H	W	<b>Fiction Poetry Writing I</b> <i>Hull, Kathleen M</i>	3.00	15	MWF 10:00-10:50AM					
AS.220.105	04	H	W	<b>Fiction Poetry Writing I</b> <i>Hubbell, Ralph Peters</i>	3.00	15	MWF 10:00-10:50AM					
AS.220.105	05	H	W	<b>Fiction Poetry Writing I</b> <i>Terrier, Mary G</i>	3.00	15	MWF 11:00-11:50AM					
AS.220.105	06	H	W	<b>Fiction Poetry Writing I</b> <i>Allen, John Patrick</i>	3.00	15	MWF 11:00-11:50AM					
AS.220.105	07	H	W	<b>Fiction Poetry Writing I</b> <i>Carpenter, Dylan</i>	3.00	15	MWF 11:00-11:50AM					
AS.220.105	08	H	W	<b>Fiction Poetry Writing I</b> <i>Friedrich, Julia S</i>	3.00	15	MWF 12:00-12:50PM					
AS.220.105	09	H	W	<b>Fiction Poetry Writing I</b> <i>Mingo, Michael G</i>	3.00	15	MWF 12:00-12:50PM					
AS.220.105	10	H	W	<b>Fiction Poetry Writing I</b> <i>Raskulinecz, Madeline K</i>	3.00	15	MWF 12:00-12:50PM					



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AS.220.105	12	H	W	<b>Fiction Poetry Writing I</b> <i>Childers, Christopher Jackson</i>	3.00	15	TTh 10:30-11:45AM					
AS.220.105	13	H	W	<b>Fiction Poetry Writing I</b> <i>Dolling, Carmen S</i>	3.00	15	TTh 10:30-11:45AM					
AS.220.105	14	H	W	<b>Fiction Poetry Writing I</b> <i>Goldberg, Benjamin Ross</i>	3.00	15	TTh 12:00-1:15PM					
AS.220.105	15	H	W	<b>Fiction Poetry Writing I</b> <i>Hudgins, Jessica Rae</i>	3.00	15	TTh 10:30-11:45AM					
AS.220.105	16	H	W	<b>Fiction Poetry Writing I</b> <i>Eisman, Benjamin L</i>	3.00	15	TTh 12:00-1:15PM					
AS.220.105	21	H	W	<b>Fiction Poetry Writing I</b> <i>Lynch, Molly Therese Kathleen</i>	3.00	15	TTh 12:00-1:15PM					
AS.220.105	23	H	W	<b>Fiction Poetry Writing I</b> <i>Landry, Byron Nicolas</i>	3.00	15	TTh 10:30-11:45AM					
AS.220.105	24	H	W	<b>Fiction Poetry Writing I</b> <i>Lynch, Molly Therese Kathleen</i>	3.00	15	TTh 10:30-11:45AM					
AS.220.106	03	H	W	<b>Fiction Poetry Writing II</b>	3.00	15	MWF 10:00-10:50AM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<i>Booe, Michael A</i> 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). This course is a prerequisite for most upper level courses.							AS.220.105	
AS.220.106	04	H	W	<b>Fiction Poetry Writing II</b> <i>Koekkoek, Taylor R</i>	3.00	15	MWF 10:00-10:50AM					
AS.220.106	05	H	W	<b>Fiction Poetry Writing II</b> <i>Booe, Michael A</i>	3.00	15	MWF 11:00-11:50AM					
AS.220.106	06	H	W	<b>Fiction Poetry Writing II</b> <i>Koekkoek, Taylor R</i>	3.00	15	MWF 11:00-11:50AM					
AS.220.106	07	H	W	<b>Fiction Poetry Writing II</b> <i>Daynes, Taylor D</i>	3.00	15	MWF 11:00-11:50AM					
AS.220.106	08	H	W	<b>Fiction Poetry Writing II</b> <i>Mitchell, Robert Alan, Jr.</i>	3.00	15	MWF 12:00-12:50PM					
AS.220.106	12	H	W	<b>Fiction Poetry Writing II</b> <i>Ernst, Cody R</i>	3.00	15	TTh 10:30-11:45AM					
AS.220.106	13	H	W	<b>Fiction Poetry Writing II</b> <i>Frantz, Joseph K</i>	3.00	15	TTh 10:30-11:45AM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.220.106	14	H	W	<b>Fiction Poetry Writing II</b> <i>Ernst, Cody R</i>	3.00	15	TTh 12:00-1:15PM					
AS.220.106	15	H	W	<b>Fiction Poetry Writing II</b> <i>Frantz, Joseph K</i>	3.00	15	TTh 12:00-1:15PM					
AS.220.106	16	H	W	<b>Fiction Poetry Writing II</b> <i>Winchester, Lauren N</i>	3.00	15	TTh 12:00-1:15PM					
AS.220.106	17	H	W	<b>Fiction Poetry Writing II</b>	3.00	15	TTh 10:30-11:45AM					
AS.220.106	19	H	W	<b>Fiction Poetry Writing II</b> <i>Gunn, Amanda N</i>	3.00	15	TTh 10:30-11:45AM					
AS.220.106	20	H	W	<b>Fiction Poetry Writing II</b>	3.00	15	TTh 12:00-1:15PM					
AS.220.106	21	H	W	<b>Fiction Poetry Writing II</b> <i>Daynes, Taylor D</i>	3.00	15	MWF 10:00-10:50AM					
AS.220.106	22	H	W	<b>Fiction Poetry Writing II</b> <i>Xie, Yi</i>	3.00	15	MWF 10:00-10:50AM					
AS.220.106	23	H	W	<b>Fiction Poetry Writing II</b>	3.00	15	MWF 11:00-11:50AM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.220.108	01	H	W	<b>Introduction to Fiction &amp; Nonfiction</b> <i>Cavanaugh-Simpson, Joanne</i> 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. AS.220.105 can be substituted for AS.220.108.	3.00	15	T 6:00-8:30PM					
AS.220.200	01	H		<b>Introduction to Fiction</b> <i>Davies, Tristan</i> 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. (Formerly AS.220.191.)	3.00	15	M 3:00-5:20PM	Prereq: 220.105 and 220.106	Z Major Writing Seminars		AS.220.105 AND AS.220.106	
AS.220.200	02	H		<b>Introduction to Fiction</b> <i>Mitchell, Robert Alan, Jr.</i>	3.00	15	F 1:30-3:50PM					
AS.220.201	01	H		<b>Introduction to Poetry Writing</b> <i>Salter, Mary Jo</i> 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. (Formerly AS.220.141)	3.00	15	T 3:00-5:20PM	Pre-reqs: AS.220.105 and AS.220.106	Z Major Writing Seminars		AS.220.105 AND AS.220.106	
AS.220.201	02	H		<b>Introduction to Poetry Writing</b> <i>Yezzi, David D</i>	3.00	15	W 1:30-3:50PM					
AS.220.312	01	H		<b>Intermediate Fiction: Detail and Description</b> <i>Noel, Katharine</i>	3.00	15	M 1:30-3:50PM					

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				An intermediate workshop focusing on the question of how to make fictional worlds feel real. We'll read 19th, 20th, and 21st century short fiction by authors such as Anton Chekhov, Jhumpa Lahiri, Junot Diaz, and Alice Munro, focusing particularly on how authors make the lives on the page feel three-dimensional. Students will write stories and exercises, including exercises that involve exploring Baltimore in order to observe and write about the city in which we live.					Z Major Writing Seminars			
AS.220.317	01	H	W	<b>Writing about Science II</b> <i>Grimm, David</i> Skills taught will include how to construct a long-form narrative, how to create profiles, and how to maintain reader interest throughout. Class speakers will include award-winning science journalists from New York to DC, who will share the secrets of their craft. The primary writing assignment will be a 3,000-word feature piece that is pitched, reported, and workshopped throughout the course of the class. "Writing About Science I"(formerly Becoming a Science Journalist) is recommended as a prerequisite for this course. Students who have not taken this course will need to complete a short writing test and obtain the permission of the instructor to enroll.	3.00	15	F 4:00-6:20PM					
AS.220.331	01	H		<b>Intermediate Fiction: Forms of Fiction</b> <i>Davies, Tristan</i> A look at some non-realistic methods, in stories and novels, for dealing with the "real world." Students will write one page excercises and short stories.	3.00	15	Th 3:00-5:20PM		Z Major Writing Seminars			
AS.220.370	01	H	W	<b>Intermediate Fiction: Dialogue and Exposition</b> <i>Leithauser, Brad</i>	3.00	15	T 3:00-5:20PM					

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				We will look at a variety of ways in which dialogue furthers artistic ends. We will ask questions like: When is dialogue best expressed directly? When is it best summarized? How does dialogue-heavy short fiction differ from a play? When can dialogue stand on its own, and when does it require an author's explanation or interpretation? Students will write both creative and expository papers.					Z Major Writing Seminars			
AS.220.378	01	H		<b>Intermediate Poetry: Poetic Forms II</b> <i>Williamson, Greg W</i> The course builds on the information and techniques encountered in Poetic Forms I, and uses them in reading and imitating a range of contemporary poets.	3.00	15	Th 1:30-3:50PM		Z Major Writing Seminars		AS.220.377	
AS.220.379	01	H		<b>Intermediate Poetry: Performing Shakespeare</b> <i>Yezzi, David D</i> This course, which begins with careful textual study, offers students the opportunity to experience Shakespeare's language as a spoken expression, marked by rhythm, sound, rhetoric, and emotion. By working with (and ultimately committing to memory) sonnets, speeches, and scenes, students will deepen their understanding of Shakespeare's art, through performance and brief critical writings.	3.00	15	M 1:30-3:50PM		Z Major Writing Seminars			
AS.220.385	01	H	W	<b>Intermediate Nonfiction: Communicating Risk</b> <i>Biddle, Wayne</i> Scientists, engineers and physicians create and define risks. The public perceives these risks and decides what is acceptable. We will study the psychology and politics of risk communication between experts and laymen.	3.00	15	W 3:00-5:20PM		Z Major Writing Seminars			
AS.220.400	01	H		<b>Advanced Poetry Workshop</b> <i>Motion, Andrew P</i>	3.00	15	T 1:30-3:50PM					

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				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. Permission Required. (Formerly AS.220.396.)					Z Major Writing Seminars			
AS.220.401	01	H		<b>Advanced Fiction Workshop</b> <i>McGarry, Jean</i>	3.00	15	Th 1:30-3:50PM		Z Major Writing Seminars	Seniors seats held 8; Juniors seats held 7		
				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 AS.220.355)								
AS.220.401	02	H		<b>Advanced Fiction Workshop</b> <i>Puchner, Roderic P</i>	3.00	15	F 1:30-3:50PM					
AS.220.424	01	H	W	<b>Science as Narrative</b> <i>Panek, Richard</i>	3.00	15	T 1:30-3:50PM		Z Major Writing Seminars			
				Class reads the writings of scientists to explore what their words would have meant to them and their readers. Discussion will focus on the shifting scientific/cultural context throughout history. Authors include Aristotle, Copernicus, Galileo, Descartes, Newton, Darwin, Freud, Einstein, Heisenberg, Bohr, Crick and Watson.								
AS.220.427	01	H	W	<b>Readings in Fiction: The Novella</b> <i>Leithauser, Brad</i>	3.00	15	W 1:30-3:50PM		Z Major Writing Seminars			
				A study of the novella as a literary form. Authors may include Melville, Turgenev, Tolstoy, Chekhov, Kafka, James, Wharton, Baldwin, Porter, Rulfo, Smiley, and others.								
AS.220.437	01	H		<b>Creating the Poetry Chapbook</b> <i>Malech, Dora Rachel</i>	3.00	15	Th 3:00-5:20PM					

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				Students will build on previous work in the major by completing a project of sustained length, depth, and cohesion (25-35 pages) in their final semester. The course will include independent creative and critical work, peer review and discussion, and meetings with the instructor. Application only; Advanced Poetry prerequisite.					Z Major Writing Seminars		AS.220.400	
AS.220.438	01	H		<b>Readings in Poetry: Of Late: Poetry &amp; Social Justice</b> <i>Malech, Dora Rachel</i> In this Community-Based Learning course, students will explore poetry of social and political engagement in partnership with high-school age writers from Writers in Baltimore Schools. Participants will put learning into practice by organizing community conversation, reflection, and collaboration. Participation in some events outside of class time will be required.	3.00	15	M 4:00-6:20PM		Z Major Writing Seminars			Y
AS.220.439	01	H	W	<b>Readings in Fiction: Caribbean Voices</b> <i>Biddle, Wayne</i> Caribbean history is reflected in the literature of emigration and collapse of empire. We'll study novels by Naipaul, Rhys, and other 20th century authors.	3.00	15	T 1:30-3:50PM		Z Major Writing Seminars			
AS.225.324	01	H	W	<b>Adaptation for the Stage</b> <i>Martin, Joseph H</i> For aspiring playwrights, dramaturgs, and literary translators, this course is a workshop opportunity in learning to adapt both dramatic and non-dramatic works into fresh versions for the stage. Students with ability in foreign languages and literatures are encouraged to explore translation of drama as well as adaptation of foreign language fiction in English. Fiction, classical dramas, folk and fairy tales, independent interviews, or versions of plays from foreign languages are covered.	3.00	10	W 3:00-5:30PM					
AS.300.133	01	H	W	<b>Freshmen Seminar: Women of Epic Fame in Literature and Drama, 800 BCE-1650 CE</b> <i>Patton, Elizabeth</i>	3.00	12	TTh 10:30-11:45AM					



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## Writing Seminars

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				From Homer's Odyssey to Shakespeare's Antony and Cleopatra, powerful women who achieve their ends by working from within the system are often overlooked or not fully explored. Our readings and discussions will foreground these women of fiction, while we also consider the social conditions of their living contemporaries. Readings will include: Homer's Odyssey (Penelope); Virgil's Aeneid (Dido); Dante's Inferno (Beatrice); Milton's Paradise Lost (Eve), and several accounts of Cleopatra in plays by Shakespeare and his contemporary women writers. Cross listed with Theater Arts, Writing Seminars, and WGS.					Freshmen Only			
AS.300.363	01	H	W	<b>Reading Judith Shakespeare: poetry and drama by women writers in Elizabethan England (ca 1558-1650)</b> <i>Patton, Elizabeth</i> Virginia Woolf's account of the thwarted career of Shakespeare's hypothetical sister, Judith (in A Room of One's Own) frames our reading of plays and poetry by Shakespeare and contemporary women writers, including Isabella Whitney, Elizabeth Cary, Mary Sidney, Aemelia Lanyer, Mary Wroth, and others. Students will create fictional biographies of "Judith Shakespeare" and her literary accomplishments. Cross listed with English, Theater Arts, Writing Seminars, and WGS.	3.00	12	T 1:30-4:00PM					

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## Writing Seminars

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
AS.389.355	01	H	W	<b>Literary Culture in the Nineteenth-Century Library</b> <i>Dean, Gabrielle</i> What did people actually read in the nineteenth century? What can we learn from their books and magazines? In this class, we read nineteenth-century English and American literary works and examine nineteenth-century literary objects from the collection of the George Peabody Library, to better understand the cultural and material environments within which literary works circulated. Featured writers likely to include Edgar Allan Poe, Charles Dickens, Harriet Beecher Stowe, Emily Dickinson, Mark Twain, Stephen Crane. Several field trips to the Peabody Library throughout the semester.	3.00	15	T 2:00-4:30PM					

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## Applied Mathematics &amp; Statistics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.550.111	01	EQ		<b>Statistical Analysis I</b>  <i>Lubberts, Zachary James</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. Recommended Course Background: four years of high school mathematics. Students who may wish to undertake more than two semesters of probability and statistics should consider EN.550.420-EN.550.430.	4.00	35	MWF 1:30-2:20PM; Th 9:00-9:50AM				Statistics Sequence restriction: students who have completed AS.230.205 or EN.550.113 may not enroll.; Statistics Sequence restriction: students who have completed any of these courses may not register: EN.550.211 OR EN.550.230 OR EN.550.310 OR EN.550.311 OR EN.550.420 OR EN.550.430 OR EN.550.112 OR EN.550.413 OR EN.560.435 OR AS.280.345 OR AS.200.314 OR AS.200.315	
EN.550.111	02	EQ		<b>Statistical Analysis I</b>	4.00	35	MWF 1:30-2:20PM; Th 10:30-11:20AM					
EN.550.111	03	EQ		<b>Statistical Analysis I</b>	4.00	35	MWF 1:30-2:20PM; Th 12:00-12:50PM					

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## Applied Mathematics &amp; Statistics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.550.111	04	EQ		<b>Statistical Analysis I</b>	4.00	35	MWF 1:30-2:20PM; Th 1:30-2:20PM					
EN.550.111	05	EQ		<b>Statistical Analysis I</b>	4.00	35	MWF 1:30-2:20PM; Th 3:00-3:50PM					
EN.550.111	06	EQ		<b>Statistical Analysis I</b>	4.00	35	MWF 1:30-2:20PM; Th 4:30-5:20PM					
EN.550.112	01	EQ		<b>Statistical Analysis II</b>	4.00	25	MWF 12:00-12:50PM; Th 9:00-9:50AM					
				<i>Paat, Joseph Stephen</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 EN.550.420-430 sequence.				Prereqs: EN.550.111 OR EN.550.113 OR AS.230.205 OR AS.280.345 OR credit for AP Statistics			Prereqs: EN.550.111 OR EN.550.113 OR AS.230.205 OR AS.280.345 OR credit for AP Statistics	
EN.550.112	02	EQ		<b>Statistical Analysis II</b>	4.00	25	MWF 12:00-12:50PM; Th 10:30-11:20AM					
EN.550.112	03	EQ		<b>Statistical Analysis II</b>	4.00	25	MWF 12:00-12:50PM; Th 12:00-12:50PM					

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## Applied Mathematics &amp; Statistics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.550.112	04	EQ		<b>Statistical Analysis II</b>	4.00	25	MWF 12:00-12:50PM; Th 3:00-3:50PM					
EN.550.112	05	EQ		<b>Statistical Analysis II</b>	4.00	25	MWF 12:00-12:50PM; Th 4:30-5:20PM					
EN.550.171	01	Q		<b>Discrete Mathematics</b>	4.00	35	MWF 10:00-10:50AM; Th 3:00-3:50PM					
				<i>Castello, Beryl</i> 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. Recommended Course Background: Four years of high school mathematics.								
EN.550.171	02	Q		<b>Discrete Mathematics</b>	4.00	35	MWF 10:00-10:50AM; Th 4:30-5:20PM					
EN.550.171	03	Q		<b>Discrete Mathematics</b>	4.00	30	MWF 10:00-10:50AM; Th 9:00-9:50AM					
EN.550.171	04	Q		<b>Discrete Mathematics</b>	4.00	30	MWF 10:00-10:50AM; Th 10:30-11:20AM					

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## Applied Mathematics &amp; Statistics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.550.211	01	Q		<b>Probability and Statistics for the Life Sciences</b>  <i>Athavale, Prashant V</i> This is an introduction to statistics aimed at students in the life sciences. The course will provide the necessary background in probability with treatment of independence, Bayes theorem, discrete and continuous random variables and their distributions. The statistical topics covered will include sampling and sampling distributions, confidence intervals and hypothesis testing for means, comparison of populations, analysis of variance, linear regression and correlation. Analysis of data will be done using Excel.	4.00	33	MWF 1:30-2:20PM; T 9:00-9:50AM				AS.110.106 OR AS.110.108; Statistics Sequence restriction: Students who have completed any of these courses may not register: EN.550.230 OR AS.280.345 OR AS.200.314 OR AS.200.315 OR EN.550.310 OR EN.550.311 OR EN.560.435 OR EN.550.112 OR EN.550.420 OR EN.550.430	
EN.550.211	02	Q		<b>Probability and Statistics for the Life Sciences</b>	4.00	33	MWF 1:30-2:20PM; T 10:30-11:20AM					
EN.550.211	03	Q		<b>Probability and Statistics for the Life Sciences</b>	4.00	33	MWF 1:30-2:20PM; T 12:00-12:50PM					
EN.550.211	04	Q		<b>Probability and Statistics for the Life Sciences</b>	4.00	33	MWF 1:30-2:20PM; T 1:30-2:20PM					
EN.550.211	05	Q		<b>Probability and Statistics for the Life Sciences</b>	4.00	33	MWF 1:30-2:20PM; T 4:30-5:20PM					

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## Applied Mathematics &amp; Statistics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.550.291	01	EQ		<b>Linear Algebra and Differential Equations</b>  <i>Castello, Beryl</i> 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 AS.110.201 and AS.110.302.	4.00	30	MWF 12:00-12:50PM; T 1:30-2:20PM				( AS.110.106 OR AS.110.108 ) AND ( AS.110.107 OR AS.110.109 )	
EN.550.291	02	EQ		<b>Linear Algebra and Differential Equations</b>	4.00	30	MWF 12:00-12:50PM; T 3:00-3:50PM					
EN.550.310	01	EQ		<b>Probability &amp; Statistics for the Physical and Information Sciences &amp; Engineering</b>  <i>Athavale, Prashant V</i> 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. 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. This course will be at the same technical level as EN.550.311. Students are encouraged to consider EN.550.420-430 instead. Students cannot receive credit for both EN.550.310 and EN.550.311. Students cannot receive credit for EN.550.310 after having received credit for EN.550.420 or EN.550.430. Recommended Course Corequisite: AS.110.202	4.00	25	MWF 11:00-11:50AM; T 1:30-2:20PM	This course will meet with EN.550.311.			( AS.110.106 OR AS.110.108 ) AND ( AS.110.107 OR AS.110.109 ); Statistics Sequence restriction: students who have completed any of these courses may not register: EN.550.311 OR EN.560.435 OR EN.550.420 OR EN.550.430	
EN.550.310	02	EQ		<b>Probability &amp; Statistics for the Physical and Information Sciences &amp; Engineering</b>	4.00	25	MWF 11:00-11:50AM; T 3:00-3:50PM					

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## Applied Mathematics &amp; Statistics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.550.310	03	EQ		<b>Probability &amp; Statistics for the Physical and Information Sciences &amp; Engineering</b>	4.00	25	MWF 11:00-11:50AM; T 4:30-5:20PM					
EN.550.311	01	EQ		<b>Probability and Statistics for the Biological Sciences and Engineering</b>  <i>Athavale, Prashant V</i> 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. 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. This course will be at the same technical level as EN.550.310. Students are encouraged to consider EN.550.420-430 instead. Students cannot receive credit for both EN.550.310 and EN.550.311. Students cannot receive credit for EN.550.311 after having received credit for EN.550.420 or EN.550.430. Recommended Course Corequisite: AS.110.202	4.00	25	MWF 11:00-11:50AM; T 12:00-12:50PM	This course will meet with EN.550.310.			( AS.110.106 OR AS.110.108 ) AND ( AS.110.107 OR AS.110.109 ); Statistics Sequence restriction: students who have completed any of these courses may not register: EN.550.310 OR EN.560.435 OR EN.550.420 OR EN.550.430	
EN.550.362	01	EQ		<b>Introduction to Optimization II</b>  <i>Fishkind, Donniell</i> 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. Appropriate for undergraduate and graduate students without the mathematical background required for EN.550.661.	4.00	25	MWF 11:00-11:50AM; T 3:00-3:50PM				EN.550.361 AND ( AS.110.202 OR AS.110.211 )	



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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.550.362	02	EQ		<b>Intro to Optimization II</b>	4.00	25	MWF 11:00-11:50AM; T 4:30-5:20PM					
EN.550.371	01	EQ		<b>Cryptology and Coding</b>  <i>Fishkind, Donniell</i> Computing experience. A first course in the mathematical theory of secure and reliable electronic communication. Cryptology is the study of secure communication: How can we ensure the privacy of messages? Coding theory studies how to make communication reliable: How can messages be sent over noisy lines? Topics include finite field arithmetic, error-detecting and error-correcting codes, data compressions, ciphers, one-time pads, the Enigma machine, one-way functions, discrete logarithm, primality testing, secret key exchange, public key cryptosystems, digital signatures, and key escrow. Recommended Course Background: AS.110.204	4.00	20	MWF 1:30-2:20PM; Th 10:30-11:20AM				EN.550.171 AND ( EN.550.291 OR AS.110.201)	
EN.550.371	02	EQ		<b>Cryptology and Coding</b>	4.00	20	MWF 1:30-2:20PM; Th 9:00-9:50AM					
EN.550.383	01	Q		<b>Scientific Computing with Python</b>  <i>Athavale, Prashant V</i> In this course, we will study numerical methods, and scientific computing using the Python language. We will discuss topics in numerical analysis, such as equation solving, differential equations, interpolation, integration etc. We will also introduce image analysis techniques such as filtering, denoising, inpainting, and segmentation. We will discuss core computer language concepts, algorithms, and data-structures using Python. No previous experience with computer programming is needed.	4.00	30	MWF 12:00-12:50PM; F 10:00-10:50AM				( EN.550.291 OR AS.110.201 ) AND ( AS.110.202 OR AS.110.211 )	

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## Applied Mathematics &amp; Statistics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.550.386	01	EQ		<b>Scientific Computing: Differential Equations</b>  <i>Eyink, Gregory</i> A first course on computational differential equations and applications. Topics include floating-point arithmetic, algorithms and convergence, root-finding (midpoint, Newton, and secant methods), numerical differentiation and integration, and numerical solution of initial value problems (Runge–Kutta, multistep, extrapolation methods, stability, implicit methods, and stiffness). Theoretical topics such as existence, uniqueness, and stability of solutions to initial-value problems, conversion of higher order/ non-autonomous equations to systems, etc., will be covered as needed. Matlab is used to solve all numerical exercises; no previous experience with computer programming is required.	4.00	20	MWF 10:00-10:50AM; Th 9:00-9:50AM				( EN.550.291 OR AS.110.201 ) AND ( AS.110.202 OR AS.110.211 )	
EN.550.388	01	EQ		<b>Scientific Computing: Differential Equations in Vector Spaces</b>  <i>Eyink, Gregory</i> A first course on computational differential equations in vector spaces and applications, a continuation of EN.550.385. Topics include root-finding for nonlinear systems of equations (bisection, Newton, and secant methods), numerical differentiation and integration, and numerical solution of initial-value problems (Runge–Kutta, multistep, extrapolation methods, stability, implicit methods, and stiffness) and boundary-value problems (shooting method, relaxation) for ordinary differential equations in finite-dimensional vector spaces. Theoretical topics such as existence, uniqueness, and stability of solutions to initial-value problems, conversion of higher-order/non-autonomous equations to systems, etc., will be covered as needed. Matlab is used to solve all numerical exercises.	4.00	15	MWF 10:00-10:50AM; Th 12:00-12:50PM				EN.550.385[C]	
EN.550.420	01	EQ		<b>Introduction to Probability</b>	4.00	30	MWF 1:30-2:20PM; Th 10:30-11:20AM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<i>Torcaso, Fred</i> 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 EN.550.620. Auditors are not permitted. Recommended Course Background: one year of calculus; Corequisite: multivariable calculus.				Prereqs: AS.110.106 OR AS.110.108 AND AS.110.107 OR AS.110.109 OR AS.110.113 OR AP credit for Calcul			Prereqs: AS.110.106 OR AS.110.108 AND AS.110.107 OR AS.110.109 OR AS.110.113; Statistics Sequence restriction: students who have already completed EN.550.430 may not register	
EN.550.420	02	EQ		<b>Introduction to Probability</b>	4.00	30	MWF 1:30-2:20PM; Th 12:00-12:50PM	Prereqs: AS.110.106 OR AS.110.108 AND AS.110.107 OR AS.110.109 OR AS.110.113				
EN.550.420	03	EQ		<b>Introduction to Probability</b>	4.00	30	MWF 1:30-2:20PM; Th 9:00-9:50AM					
EN.550.426	01	EQ		<b>Introduction to Stochastic Processes</b>  <i>Torcaso, Fred</i> Mathematical theory of stochastic processes. Emphasis on deriving the dependence relations, statistical properties, and sample path behavior including random walks, Markov chains (both discrete and continuous time), Poisson processes, martingales, and Brownian motion. Applications that illuminate the theory. Students may not earn credit for both EN.550.426 and EN.550.427.	4.00	35	MWF 11:00-11:50AM; T 10:30-11:20AM				EN.550.420 AND ( EN.550.291 OR AS.110.201 OR AS.110.212)	

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## Applied Mathematics &amp; Statistics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.550.428	01	Q		<b>Stochastic Processes and Applications to Finance II</b>  <i>Miller, John C</i> A basic knowledge of stochastic calculus and Brownian motion is assumed. Topics include stochastic differential equations, the Feynman-Kac formula and connections to partial differential equations, changes of measure, fundamental theorems of asset pricing, martingale representations, first passage times and pricing of path-dependent options, and jump processes.	4.00	35	MW 1:30-2:45PM; T 9:00-9:50AM				EN.550.427	
EN.550.430	01	EQ		<b>Introduction to Statistics</b>  <i>Naiman, Daniel Q</i> Introduction to the basic principles of statistical reasoning and data analysis. Emphasis on techniques of application. Classical parametric estimation, hypothesis testing, and multiple decision problems; linear models, analysis of variance, and regression; nonparametric and robust procedures; decision-theoretic setting, Bayesian methods.	4.00	35	MWF 9:00-9:50AM; Th 10:30-11:20AM				EN.550.420 OR APPROVED ALTERNATIVE AND ( EN.550.291 OR AS.110.201 OR AS.110.212 )	
EN.550.430	02	EQ		<b>Introduction to Statistics</b>	4.00	35	MWF 9:00-9:50AM; Th 12:00-12:50PM					
EN.550.430	03	EQ		<b>Introduction to Statistics</b>	4.00	35	Th 3:00-3:50PM; MWF 9:00-9:50AM					
EN.550.439	01	EQ		<b>Time Series Analysis</b>  <i>Torcaso, Fred</i>	3.00	60	MWF 9:00-9:50AM					







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## Applied Mathematics &amp; Statistics

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				Study of systems of "vertices" with some pairs joined by "edges." Theory of adjacency, connectivity, traversability, feedback, and other concepts underlying properties important in engineering and the sciences. Topics include paths, cycles, and trees; routing problems associated with Euler and Hamilton; design of graphs realizing specified incidence conditions and other constraints. Attention directed toward problem solving, algorithms, and applications. One or more topics taken up in greater depth.							EN.550.291 OR AS.110.201 OR AS.110.212	
EN.550.493	01	EQ		<b>Mathematical Image Analysis</b> <i>Charon, Nicolas</i> This course gives an overview of various mathematical methods related to several problems encountered in image processing and analysis, and presents numerical schemes to address them. It will focus on problems like image denoising and deblurring, contrast enhancement, segmentation and registration. The different mathematical concepts shall be introduced during the course; they include in particular functional spaces such as Sobolev and BV, Fourier and wavelet transforms, as well as some notions from convex optimization and numerical analysis. Most of such methods will be illustrated with algorithms and simulations on discrete images, using MATLAB. Prerequisites : linear algebra, multivariate calculus, basic programming in MATLAB. Recommended Course Background: Real analysis	3.00	25	TTh 4:30-5:45PM				( AS.110.202 OR AS.110.211 ) AND (EN.550.291 OR AS.110.201 OR AS.110.212)	



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## Biomedical Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.520.434	01			<b>Modern Biomedical Imaging Instrumentation and Techniques</b> <i>Tsui, Benjamin</i> An intermediate biomedical imaging course covering modern biomedical imaging instrumentation and techniques as applied to diagnostic radiology and other biomedical applications. It includes recent advances in various biomedical imaging modalities, multi-modality imaging and molecular imaging. The course is team taught by experts in the respective fields and provides a broad based knowledge of modern biomedical imaging to prepare students for graduate studies and research in biomedical imaging. Also, the course will offer tours and practical experience with modern biomedical imaging equipments in clinical and research settings. Co-listed with EN.580.473	3.00	22	TTh 9:00-10:15AM	Prereq: 520.432 or 580.472			EN.520.432 OR EN.580.472	
EN.550.450	01	EQ		<b>Computational Molecular Medicine</b> <i>Geman, Donald J</i> Computational systems biology has emerged as the dominant framework for analyzing high-dimensional "omics" data in order to uncover the relationships among molecules, networks and disease. In particular, many of the core methodologies are based on statistical modeling, including machine learning, stochastic processes and statistical inference. We will cover the key aspects of this methodology, including measuring associations, testing multiple hypotheses, and learning predictors, Markov chains and graphical models. In addition, by studying recent important articles in cancer systems biology, we will illustrate how this approach enhances our ability to annotate genomes, discover molecular disease networks, detect disease, predict clinical outcomes, and characterize disease progression. Whereas a good foundation in probability and statistics is necessary, no prior exposure to molecular biology is required (although helpful).	4.00	25	MW 4:30-5:45PM; F 1:30-2:20PM				( EN.550.420 AND EN.550.430 ) OR equivalent courses in probability and statistics.	
EN.580.112	01	EN		<b>BME Design Group</b>	3.00	35	MW 3:00-4:15PM					

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				<i>Allen, Robert H</i> A two-semester course sequence where freshmen work with groups of BME upperclassmen mentors, and learn to use 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 apply this knowledge to the solution of practical problems encountered in biomedical engineering.								
EN.580.200	01	E		<b>Introduction to Scientific Computing in BME using Python, Matlab, and R</b> <i>Timp, Winston</i> This course is an introduction to scientific programming and computing designed for first-year students. The aim is to develop core computer skills required to succeed in research. Programming projects are drawn from current biomedical applications within BME. Emphasis is on algorithm development, large scale data analysis, and effective visualization of results, using MATLAB, Python, and R. Prior programming experience is not required.	3.00	100	TTh 9:00AM-10:15PM					
EN.580.202	01			<b>BME in the Real World</b> <i>Popel, Aleksander S</i> Open only to engineering students; A series of weekly lectures to inform students about careers in biomedical engineering and to discuss technological, social, ethical, legal, and economic issues relevant to the profession. Topics include academic careers in biomedical engineering; biomedical engineering in industry (large corporations to sole entrepreneurship); health care delivery; ethical issues; legal issues (patenting, licensing, product liability); standards and government regulations; and economic issues in biomedical engineering industry (start-up companies, global businesses).	1.00	150	M 4:30-5:20PM	Open only to engineering students				

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EN.580.212	01	EN		<b>BME Design Group</b> <i>Allen, Robert H</i> Sophomore-level version of EN.580.111-112. Permission of course directors required.	3.00	5	MW 3:00-4:15PM					
EN.580.222	01	E		<b>Systems and Controls</b>  <i>Miller, Michael; Sarma, Sridevi</i> An introduction to linear systems: analysis, stability and control. Topics include first and second order systems, linear time invariant discrete and continuous systems, convolution, Fourier series, Fourier transforms, Laplace transforms, stability of linear systems, input output and state space representation of linear systems, stability, observability, controllability, and PID controller design. Recommended Course Background: AS.171.102 and AS.110.201, AS.110.302 or EN.550.291	4.00	35	MW 12:00-1:15PM; F 9:00-9:50AM					
EN.580.222	02	E		<b>Systems and Controls</b>	4.00	35	MW 12:00-1:15PM; F 10:00-10:50AM					
EN.580.222	03	E		<b>Systems and Controls</b>	4.00	35	MW 12:00-1:15PM; F 12:00-12:50PM					
EN.580.222	04	E		<b>Systems and Controls</b>	4.00	35	MW 12:00-1:15PM; F 1:30-2:20PM					
EN.580.222	05	E		<b>Systems and Controls</b>	4.00	35	MW 12:00-1:15PM; F 1:30-2:20PM					

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<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.580.222	06	E		<b>Systems and Controls</b>	4.00	35	MW 12:00-1:15PM; F 3:00-3:50PM					
EN.580.223	01	E		<b>Models and Simulations</b>	4.00	35	MW 3:00-4:15PM; F 10:00-10:50AM					
				<i>Beer, Michael; Popel, Aleksander S</i> This course introduces students to modeling and analysis of biological systems. The first portion of the course focuses on linear systems. Topics include harmonic oscillators, pharmacokinetics, reaction-diffusion equation, heat transfer, and fluid flow. The second half of the course focuses on non-linear systems. Topics include iterated maps, bifurcations, chaos, stability of autonomous systems, the Hodgkin-Huxley model, bistability, limit cycles, and the Poincare-Bendixson theorem. The course also introduces students to the Matlab programming language, which allows them to implement the models discussed in class. Recommended Course Background: AS.110.201, AS.110.302, or EN.550.291								
EN.580.223	02	E		<b>Models and Simulations</b>	4.00	35	MW 3:00-4:15PM; F 11:00-11:50AM					
EN.580.223	03	E		<b>Models and Simulations</b>	4.00	35	F 12:00-12:50PM; MW 3:00-4:15PM					
EN.580.223	04	E		<b>Models and Simulations</b>	4.00	35	MW 3:00-4:15PM; F 1:30-2:20PM					

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EN.580.223	05	E		<b>Models and Simulations</b>	4.00	35	MW 3:00-4:15PM; F 1:30-2:20PM					
EN.580.223	06	E		<b>Models and Simulations</b>	4.00	35	MW 3:00-4:15PM; F 3:00-3:50PM					
EN.580.223	07	E		<b>Models and Simulations</b>	4.00	35	MW 3:00-4:15PM; F 3:00-3:50PM					
EN.580.302	01			<b>Careers in Biomedical Engineering</b> <i>Popel, Aleksander S</i> See description for EN.580.202. This course is designed for upperclassmen that wish to meet with weekly speakers to discuss careers issues. Junior/Senior Engineers only.	1.00	50	M 4:30-5:20PM		Juniors Only; Seniors Only			
EN.580.312	01	EN		<b>BME Design Group</b> <i>Allen, Robert H</i> 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	MW 3:00-4:15PM					
EN.580.410	01			<b>BME Teaching Practicum</b> <i>Bear, Michael</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. Permission required.	2.00	20	TBA					

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EN.580.412	01	E		<b>BME Design Group</b> <i>Allen, Robert H</i> Senior-level version of EN.580.311-312. Permission of course directors required	3.00	30	MW 3:00-4:15PM					
EN.580.414	01	E		<b>Design Team/Team Leader</b> <i>Allen, Robert H</i> 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 directors required.	4.00	15	MW 3:00-4:15PM					
EN.580.420	01	EN		<b>Build-a-Genome</b> <i>Bader, Joel S; Zeller, Karen</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 <a href="http://www.syntheticyeast.org">www.syntheticyeast.org</a> 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 8:30-9:50AM				Students must have completed Lab Safety training prior to registering for this class.	
EN.580.422	01	EN		<b>Systems Bioengineering II</b> <i>Haase, Eileen B; Wang, Xiaojin</i>	4.00	35	Th 10:30-11:20AM; MWF 1:30-2:20PM					

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				A quantitative, model-oriented approach to the study of the nervous system. Topics include functional anatomy of the central and autonomic nervous systems, neurons and networks, learning and memory, structure and function of the auditory and visual systems, motor systems, and neuro-engineering. Prerequisites: EN.580.221 (Molecules and Cells), EN.580.222 (Systems and Controls), EN.580.223 (Models and Simulations), AS.110.302 (Differential Equations), EN.580.421 (Physiological Foundations I). Coreq: EN.580.424 (Physiological Foundations Laboratory II).								
EN.580.422	02	EN		<b>Systems Bioengineering II</b>	4.00	35	Th 10:30-11:20AM; MWF 1:30-2:20PM					
EN.580.422	03	EN		<b>Systems Bioengineering II</b>	4.00	35	Th 2:00-2:50PM; MWF 1:30-2:20PM					
EN.580.422	04	EN		<b>Systems Bioengineering II</b>	4.00	35	Th 2:00-2:50PM; MWF 1:30-2:20PM					
EN.580.424	01			<b>Systems Bioengineering Lab</b>	2.00	36	Th 9:00AM-1:00PM; F 9:00-9:50AM					
				<i>Haase, Eileen B</i> A 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. Recommended Corequisite: EN.580.422				Attend the section that is the best fit for your schedule. However, students must attend the lab fo			Students must have completed Lab Safety training prior to registering for this class.	

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EN.580.424	02			<b>Systems Bioengineering Lab</b>	2.00	36	Th 1:30-5:20PM; F 9:00-9:50AM					
EN.580.424	03			<b>Systems Bioengineering Lab</b>	2.00	36	F 9:00AM- 1:00PM; Th 4:30- 5:20PM					
EN.580.424	04			<b>Systems Bioengineering Lab</b>	2.00	36	F 2:30-6:20PM; Th 4:30-5:20PM					
EN.580.430	01	E		<b>Systems Pharmacology and Personalized Medicine</b> <i>Macgabhann, Feilim</i>	3.00	30	TTh 10:30- 11:45AM					





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This course focuses on the application of engineering fundamentals to designing biological tissue substitutes. Concepts of tissue development, structure and function will be introduced. Students will learn to recognize the majority of histological tissue structures in the body and understand the basic building blocks of the tissue and clinical need for replacement. The engineering components required to develop tissue-engineered grafts will be explored including biomechanics and transport phenomena along with the use of biomaterials and bioreactors to regulate the cellular microenvironment. Emphasis will be placed on different sources of stem cells and their applications to tissue engineering. Clinical and regulatory perspectives will be discussed.  
 Recommended Course Background:  
 EN.580.221 or AS.020.305 and AS.020.306, AS.030.205  
 Recommended EN.580.441/EN.580.641  
 Co-listed with EN.580.642

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EN.580.444	01	EN		<b>Biomedical Applications of Glycoengineering</b> <i>Yarema, Kevin J</i> This course provides an overview of carbohydrate-based technologies in biotechnology and medicine. The course will begin by briefly covering basics of glycobiology and glycochemistry followed by detailed illustrative examples of biomedical applications of glycoengineering. A sample of these applications include the role of sugars in preventative medicine (e.g., for vaccine development and probiotics), tissue engineering (e.g., exploiting natural and engineered polysaccharides for creating tissue or organs de novo in the laboratory), regenerative medicine (e.g., for the treatment of arthritis or degenerative muscle disease), and therapy (e.g., cancer treatment). A major part of the course grade will be based on class participation with each student expected to provide a "journal club" presentation of a relevant paper as well as participate in a team-based project designed to address a current unmet clinical need that could be fulfilled through a glycoengineering approach. Recommended Course Background: EN.580.221 Molecules and Cells	3.00	25	TTh 3:00-4:15PM					
EN.580.452	01	EN		<b>Cell and Tissue Engineering Lab</b> <i>Haase, Eileen B</i> This laboratory course will consist of three experiments that will provide students with valuable hands-on experience in cell and tissue engineering. 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. Spring semester only.	3.00	8	MWF 11:00AM-12:50PM	Lab fee: \$100				
EN.580.452	02	EN		<b>Cell and Tissue Engineering Lab</b>	3.00	8	MWF 1:00-2:50PM					
EN.580.457	01	E		<b>Rehabilitation Engineering Design Lab</b>	3.00	20	TTh 3:00-4:15PM					

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*Paul, Scott Mitchell*

The primary objective of this course is to give biomedical engineering students who have completed 580.456 (Intro to Rehab Engineering) the opportunity to apply the knowledge they have gained in that course and their prior coursework to the development of a new, improved device to be used for measurement or treatment of an impairment or disability. In doing so, they will learn the biomedical engineering design process and its application to persons with disabilities. Working in groups of four to five, teams will work on a project derived from a needs analysis based on their visits to rehabilitation centers in the fall semester. Project will require instructor approval before the beginning of the spring semester. Each project will consist of a proposal for design of a new device or solution to a problem faced by persons with disabilities, preliminary "virtual" (e.g., CAD), and actual proof of concept working prototype. Projects will be judged by the proposal, prototypes, and in-class presentations.

Prereq:  
 EN.580.456

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EN.580.473	01	EN		<b>Modern Biomedical Imaging Instrumentation and Techniques</b> <i>Tsui, Benjamin</i> An intermediate biomedical imaging course covering modern biomedical imaging instrumentation and techniques as applied to diagnostic radiology and other biomedical applications. It includes recent advances in various biomedical imaging modalities, multi-modality imaging and molecular imaging. The course is team taught by experts in the respective fields and provides a broad based knowledge of modern biomedical imaging to prepare students for graduate studies and research in biomedical imaging. Also, the course will offer tours and practical experience with modern biomedical imaging equipment in clinical and research settings. Co-listed with EN.520.434 Recommended course background: EN.520.432 or EN.580.472	3.00	10	TTh 9:00-10:15AM				EN.520.432 OR EN.580.472	
EN.580.476	01	E		<b>Magnetic Resonance in Medicine</b> <i>Herzka, Daniel</i> This course provides the student with a complete introduction to the physical principles, hardware design, and signal processing used in magnetic resonance imaging and magnetic resonance spectroscopy. The course is designed for students who wish to pursue research in magnetic resonance. Recommended course background: EN.580.222 or EN.520.214. Co-listed with EN.580.673.	3.00	15	TTh 10:30-11:45AM					
EN.580.479	01	E		<b>X-ray Imaging and Computed Tomography</b> <i>Siewerdsen, Jeff</i>	3.00	13	TTh 3:30-5:00PM					

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## Biomedical Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				<p>This course provides students with an intermediate-level understanding of the physics, engineering, algorithms, and applications of medical x-ray imaging and computed tomography (CT). It is intended for senior undergraduates (EN.580.479) and/or graduate students (EN.580.679) in Biomedical Engineering, Computer Science, Electrical and Computer Engineering, or related fields in science and engineering. Topics include the physics of x-ray interaction and detection, image quality modeling and assessment, 3D image reconstruction (including analytical and iterative approaches), and applications in diagnostic and image-guided procedures. Background knowledge required of students includes EN.580.472 and/or EN.580.473 and familiarity with Matlab.</p>								
EN.580.491	01	E		<b>Learning Theory</b> <i>Shadmehr, Reza</i>	3.00	40	MW 3:00-4:15PM					
				<p>The course introduces the probabilistic foundations of learning theory. We will discuss topics in regression, estimation, optimal control, system identification, Bayesian learning, and classification. Our aim is to first derive some of the important mathematical results in learning theory, and then apply the framework to problems in biology, particularly animal learning and control of action. Recommended Course Background: AS.110.201 and AS.110.302</p>								
EN.580.492	01	EN		<b>Build-a-Genome Mentor</b> <i>Bader, Joel S; Boeke, Jef D; Zeller, Karen</i>	4.00	4	MWF 8:30-9:50AM					







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				How can robots localize themselves in an environment when navigating? Can we predict which patients are at greatest-risk for complications in the hospital? Which movie should I recommend to this user given his history of likes? Many such big data questions can be answered using the paradigm of probabilistic models in machine learning. These are especially useful when common off-the-shelf algorithms such as support vector machines and k-means fail. You will learn methods for clustering, classification, structured prediction, recommendation and inference. We will use Murphy's book, Machine Learning: a Probabilistic Perspective, as the text for this course. Assignments are solved in groups of size 1-3 students. The class will have 4 interactive sessions during which we brainstorm how to solve example open-ended real-world problems with the tools learnt in class. Students are also required to do a project of their choice within which they experiment with the ideas learnt in class. [Analysis or Applications] Students may receive credit for EN.600.476 or EN.600.676, but not both. Requisites include Intro Prob/Stat, Linear Algebra and Intro Machine Learning as well as strong background in s.				Pre-reqs: 1) Intro Prob/Stat, Linear Algebra and Intro Machine Learning OR 2) Strong background in s					

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## Center for Leadership Education

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.660.100	01	S		<b>Hopkins Leadership Challenge Seminar</b>  <i>Sanchez, Tiffany</i> The Hopkins Leadership Challenge is a one credit pass/fail seminar and is designed specifically for first year undergraduates at JHU who are interested in developing their leadership skills and applying those skills to Hopkins life. The seminar includes both a classroom component and an experiential component. The classroom content includes leadership topics, discussions with university leaders and serves as an introduction to the history, services and involvement opportunities at Hopkins. The experiential component includes programs such as JHU history, faculty student interaction, visits to other JHU campuses and more! Interested students should register early, as there is limited space available in each section of the seminar. Freshmen only. S/U only.	1.00	19	MW 12:00-1:15PM		Freshmen Only			
EN.660.100	02	S		<b>Hopkins Leadership Challenge Seminar</b>  <i>Beauchamp, Justin B</i>	1.00	19	MW 12:00-1:15PM					
EN.660.105	01	S	W	<b>Introduction to Business</b>  <i>Aronhime, Lawrence; Izenberg, Illysa B</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	20	MWF 12:00-12:50PM; T 1:30-2:20PM					

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## Center for Leadership Education

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.660.105	02	S	W	<b>Introduction to Business</b>  <i>Aronhime, Lawrence</i>	4.00	20	MWF 12:00-12:50PM; M 1:30-2:20PM					
EN.660.105	03	S	W	<b>Introduction to Business</b>	4.00	20	MWF 12:00-12:50PM; T 3:00-3:50PM					
EN.660.105	04	S	W	<b>Introduction to Business</b>	4.00	20	MWF 12:00-12:50PM; W 3:00-3:50PM					
EN.660.105	05	S	W	<b>Introduction to Business</b>	4.00	20	MWF 12:00-12:50PM; Th 1:30-2:20PM					
EN.660.105	06	S	W	<b>Introduction to Business</b>	4.00	20	MWF 12:00-12:50PM; Th 3:00-3:50PM					
EN.660.105	07	S	W	<b>Introduction to Business</b>	4.00	20	MWF 12:00-12:50PM; Th 3:00-3:50PM					
EN.660.105	08	S	W	<b>Introduction to Business</b>	4.00	20	MWF 12:00-12:50PM; M 1:30-2:20PM					
EN.660.105	09	S	W	<b>Introduction to Business</b>  <i>Izenberg, Illysa B</i>	4.00	20	TTh 10:30-11:45AM; T 3:00-3:50PM					

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EN.660.105	10	S	W	<b>Introduction to Business</b>	4.00	20	TTh 10:30-11:45AM; Th 3:00-3:50PM					
EN.660.203	01			<b>Financial Accounting</b>  <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	30	MWF 10:00-10:50AM					
EN.660.203	02			<b>Financial Accounting</b>  <i>Leps, Annette</i>	3.00	30	MW 12:00-1:15PM					
EN.660.203	03			<b>Financial Accounting</b>	3.00	30	TTh 12:00-1:15PM					
EN.660.203	04			<b>Financial Accounting</b> <i>Furlong, Sean T</i>	3.00	19	TTh 4:30-5:45PM					
EN.660.203	05			<b>Financial Accounting</b>	3.00	19	M 6:00-8:30PM					

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EN.660.203	06			<b>Financial Accounting</b>	3.00	30	TTh 10:30-11:45AM					
EN.660.250	01			<b>Principles of Marketing</b>  <i>Kendrick, Leslie</i> 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.	3.00	35	MW 12:00-1:15PM					
EN.660.250	02			<b>Principles of Marketing</b>  <i>Furst, Mary E</i>	3.00	35	TTh 9:00-10:15AM					
EN.660.250	03			<b>Principles of Marketing</b>  <i>Staff</i>	3.00	35	TTh 12:00-1:15PM					
EN.660.250	04			<b>Principles of Marketing</b>  <i>Sullivan, Dennis J.</i>	3.00	35	MW 4:30-5:45PM					

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EN.660.300	01			<b>Managerial Finance</b> <i>Priolo, Marcus</i> This course is designed to familiarize the student with the basic concepts and techniques of financial management practice. The course begins with a review of accounting, securities markets, and the finance function. The course then moves to discussion of financial planning, financial statement analysis, time value of money, interest rates and bond valuation, stock valuation, and concludes with capital budgeting and project analysis. A combination of classroom discussions, problem sets, and case studies will be used. No audits.	3.00	25	T 6:15-9:00PM				EN.660.203	
EN.660.303	01			<b>Managerial Accounting</b> <i>Leps, Annette</i> This course introduces management accounting concepts and objectives including planning, control, and the analysis of sales, expenses, and profits. Major topics include cost behavior, cost allocation, product costing (including activity based costing), standard costing and variance analysis, relevant costs, operational and capital budgeting, and performance measurement. Note: not open to students who have taken EN.660.204 Managerial Accounting. No audits.	3.00	35	TTh 10:30-11:45AM				EN.660.203	
EN.660.308	01	S		<b>Business Law I</b> <i>Fisher, David</i> 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. Note: not open to students who have taken 660.205 Business Law I. No audits.	3.00	19	M 6:15-9:00PM				EN.660.105	

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EN.660.308	02	S		<b>Business Law I</b> <i>Monti, Lindsay M.; Rakes, William Bryan</i>	3.00	19	W 6:15-9:00PM					
EN.660.308	03	S		<b>Business Law I</b> <i>Jeffers, Christopher E</i>	3.00	19	W 3:00-5:45PM					
EN.660.310	01	H		<b>Case Studies in Business Ethics</b> <i>Sandhaus, Douglas</i> 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. Not open to students who have taken EN.660.231 Case Studies in Business Ethics. No audits.	3.00	30	T 6:15-9:00PM				EN.660.105	

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EN.660.311	01	S		<b>Law and the Internet</b> <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. Note: not open to students who have taken EN.660.306 Law and the Internet. No audits.	3.00	30	W 6:15-9:00PM				EN.660.205] OR EN.660.308	
EN.660.332	01	S	W	<b>Leadership Theory</b> <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 Course Background: EN.660.105 or EN.660.220/EN.660.340. No audits.	3.00	30	MW 2:00-3:15PM	Section 01 not opened to seniors.	Freshmen Only; Sophomores Only; Juniors Only	Seats for Non-Seniors 30		
EN.660.332	02	S	W	<b>Leadership Theory</b>	3.00	30	TTh 2:00-3:15PM					
EN.660.333	01		W	<b>Leading Change</b> <i>Smedick, William D</i>	3.00	24	TTh 4:00-5:15PM					



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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 EN.660.235. No audits. Recommended Course Background: EN.660.105								
EN.660.340	01			<b>Principles of Management</b> <i>Izenberg, Illysa B</i>	3.00	19	TTh 1:30-2:45PM				EN.660.105	
				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 EN.660.220 Principles of Management. No audits.								
EN.660.341	01	W		<b>Business Process and Quality Management</b> <i>Reiter, Joshua</i>	3.00	19	M 1:30-4:15PM					

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				<p>This course focuses on both quantitative and qualitative analytical skills and models essential to operations process design, management, and improvement in both service and manufacturing oriented companies. The objective of the course is to prepare the student to play a significant role in the management of a world-class company which serves satisfied customers through empowered employees, leading to increased revenues and decreased costs. The material combines managerial issues with both technical and quantitative aspects. Practical applications to business organizations are emphasized. Recommended Course Background: EN.660.105 Introduction to Business or EN.660.241 IT Management. No audits</p>								
EN.660.352	01			<p><b>New Product Development</b>  <i>Agronin, Michael L</i>                      New product development is the ultimate interdisciplinary entrepreneurial art, combining marketing, technical, and managerial skills. A successful product lies at the intersection of the user's need, a technical solution, and compelling execution. This class will bootstrap your experience in the art through exercises and team projects. We will examine products and services, consumer and industrial, simple and technologically complex. Case studies will feature primary sources and the instructor's personal experiences as an inventor for a major consumer products company. Topics will span the product development cycle: identifying user needs, cool-hunting, brainstorming, industrial design, prototyping techniques, market research to validate new ideas, and project management -- especially for managing virtual teams and foreign manufacturers. No audits.</p>	3.00	24	M 6:15-9:00PM				EN.660.250	
EN.660.354	01			<p><b>Consumer Behavior</b>  <i>Graham, Robert M.</i></p>	3.00	19	TTh 10:30-11:45AM					

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				<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. No audits.</p>								
EN.660.404	01	S		<b>Business Law II</b> <i>Fisher, David</i>	3.00	19	T 6:15-9:00PM					
				<p>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. No audits.</p>								EN.660.205 OR EN.660.308
EN.660.420	01		W	<b>Marketing Strategy</b> <i>Kendrick, Leslie</i>	3.00	19	TTh 10:30-11:45AM					

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				<p>This writing intensive course helps students develop skills in formulating, implementing, and controlling a strategic marketing program for a given product-market entry. Using a structured approach to case analysis, students will learn how to make the kinds of strategic marketing decisions that will have a long-term impact on the organization and support these decisions with quantitative analyses. Through textbook readings, students will learn how to identify appropriate marketing strategies for new, growth, mature, and declining markets and apply these strategies as they analyze a series of marketing cases. The supplementary readings, from a broad spectrum of periodicals, are more applied and will allow students to see how firms are addressing contemporary marketing challenges. In addition to analyzing cases individually, each student will be part of a team that studies a case during the latter half of the semester, developing marketing strategy recommendations, including financial projections, and presenting them to the class. No audits.</p>								
EN.660.450	01			<b>Advertising &amp; Integrated Marketing Communication</b> <i>Kendrick, Leslie</i>	3.00	38	TTh 12:00-1:15PM					



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				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. Not open to students who have taken EN.661.110 as Technical Communication or Professional Communication for Science, Business and Industry or EN.661.120 Business Communication. No audits.							Not open to students who have taken EN.661.110 as Technical Communication or Business and Industry or EN.661.120 Business Communication.	
EN.661.110	02		W	<b>Professional Writing and Communication</b>	3.00	19	TTh 10:30-11:45AM					
EN.661.110	04		W	<b>Professional Writing and Communication</b>	3.00	19	TTh 1:30-2:45PM					
EN.661.110	05		W	<b>Professional Writing and Communication</b> <i>Wilkins, Caroline A</i>	3.00	19	MW 12:00-1:15PM					
EN.661.110	06		W	<b>Professional Writing and Communication</b>	3.00	19	MW 1:30-2:45PM					
EN.661.110	07		W	<b>Professional Writing and Communication</b> <i>Pepitone, Lauren</i>	3.00	19	TTh 12:00-1:15PM					
EN.661.111	01		W	<b>Professional Writing and Communication for International Students</b> <i>Davis, Laura G</i>	3.00	19	TTh 4:30-5:45PM					

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				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 EN.661.110 as Technical Communication or Professional Communication for Science, Business, and Industry or EN.661.120 Business Communication. No audits.							Not open to students who have taken EN.661.110 as Technical Communication or Professional Communication for Science, Business, and Industry or EN.661.120 Business Communication.	
EN.661.250	01		W	<b>Oral Presentations</b> <i>Dungey, Kevin R</i>	3.00	13	M 3:00-5:45PM				Not open to students who have taken EN.661.150.	
				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. Not open to students that have taken EN.661.150.								
EN.661.250	02		W	<b>Oral Presentations</b>	3.00	13	M 6:15-9:00PM					
EN.661.250	03		W	<b>Oral Presentations</b> <i>Sheff, Pamela</i>	3.00	13	W 1:30-4:15PM					
EN.661.250	04		W	<b>Oral Presentations</b>	3.00	13	T 4:30-7:15PM					

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				<i>Heiserman, Jason</i>								
EN.661.250	05		W	<b>Oral Presentations</b> <i>O'Donnell, Charlotte Alyssa</i>	3.00	13	W 5:00-7:45PM					
EN.661.250	06		W	<b>Oral Presentations</b> <i>Kulanko, Andrew</i>	3.00	13	Th 1:30-4:15PM					
EN.661.250	07		W	<b>Oral Presentations</b>	3.00	13	Th 5:00-7:45PM					
EN.661.250	08		W	<b>Oral Presentations</b> <i>Reiser, Julie</i>	3.00	13	T 1:30-4:15PM					
EN.661.251	01		W	<b>Oral Presentations for International Students</b> <i>Davis, Laura G</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. No audits. Not open to students that have taken EN.661.151	3.00	13	W 4:30-7:15PM				Not open to students that have taken EN.661.151.	
EN.661.301	01		W	<b>Writing for the Law</b> <i>Franceschini, Mark; Sandhaus, Douglas</i>	3.00	18	Th 6:15-9:00PM					



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				<p>This course teaches students to communicate effectively in various modes of legal discourse that are fundamental to the practice of law. Students will engage in writing nearly every session and will learn the basics of legal writing, editing (both the student's and others' work), and written/oral advocacy skills. Students can expect to work with litigation-related documents such as pleadings, preliminary and dispositive motions, and appellate briefs as well as non-litigation-related documents such as opinion articles, publications, essays, and various business-related contracts.</p>								
EN.661.306	01		W	<p><b>Freelance Travel Writing: Destination Mid-Atlantic</b> <i>Reiser, Julie</i></p> <p>In this course, students will learn the fundamentals of magazine and travel writing as well as best practices for working as a freelance writer. After gaining familiarity with the genre by reading several "classics" of travel writing and a selection of exemplary magazine articles, students will learn how to brainstorm ideas, plan research, interview skillfully, take useable photos with smartphones, polish pitches to editors, and write/revise/submit work for publication. Students will also have the opportunity to meet with important executives from travel magazines and publishing houses. We will use Washington, DC, and Baltimore as the basis for most of our work, but the course might also include day trips to Philadelphia and New York. At the end of the course, students will create an ePortfolio to showcase their articles, profiles, reviews, trade placements, blog entries, and pitches/queries to potential editors. Recommended: one prior course in writing but may be waived with instructor's permission.</p>	3.00	19	Th 1:30-4:00PM					
EN.661.315	01		W	<p><b>Culture of the Engineering Profession</b> <i>Rice, Eric</i></p>	3.00	24	TTh 12:00-1:15PM					

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				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, the impacts of engineering solutions on society, the 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. WSE sophomores, juniors and seniors or by instructor approval.					Juniors Only; Seniors Only			
EN.661.315	02		W	<b>Culture of the Engineering Profession</b>  <i>Sheff, Pamela</i>	3.00	24	TTh 12:00-1:15PM					
EN.661.315	03		W	<b>Culture of the Engineering Profession</b>  <i>Graham, Robert M.</i>	3.00	24	TTh 12:00-1:15PM					
EN.661.315	04		W	<b>Culture of the Engineering Profession</b>  <i>Staff</i>	3.00	24	TTh 12:00-1:15PM					
EN.661.317	01	S	W	<b>Culture of the Medical Profession</b>  <i>Staff</i>	3.00	24	TTh 12:00-1:15PM					

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				<p>This course builds understanding of the culture of medicine as well as the ways in which different strata within society have access to and tend to make decisions about health and health related services while preparing students to communicate effectively with the various audiences with whom medical professionals interact. Working from a base of contemporary science writing (monographs, non-fiction, popular literature and fiction), students engage in discussion, argument, case study and project work to investigate topics such as the medical culture, the ways medicine is viewed by different segments of society, issues associated with access to health care, ethical dilemmas and guidelines for medical decisions, the impacts of medical and engineering solutions on society, decision making within client/patient groups, social and cultural differences that effect behavioral change, and the ways medical 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 through a series of short papers and presentations associated with analysis of the writings and cases. For sophomores, juniors, and seniors or by permission of instructor. No audits.</p>								
EN.661.370	01			<p><b>Visual Rhetoric</b> <i>O'Donnell, Charlotte Alyssa</i></p> <p>This course introduces students to basic concepts in visual communication. Students use principles of design thinking to produce projects that are both conceptually and visually compelling. Along the way, they learn design tools and techniques that help them refine their schemes. They also develop their vocabularies in visual communication so that they can better discuss their own work. Topics include: visual perception, composition/form, color theory, typography, photography, text, layers, grids and other systems of visual information architecture.</p>	3.00	15	T 1:30-4:15PM					
EN.661.390	01	W		<p><b>Catalyst: A Student-Run Magazine</b> <i>O'Donnell, Charlotte Alyssa</i></p>	3.00	19	M 1:30-4:15PM					

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Center for Leadership Education

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
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Catalyst is a student-run magazine that focuses on research, technology, entrepreneurship and design. Students enrolled in this course will learn the fundamental principles of journalism through producing content for the online magazine. The class will cover basic journalistic writing and interviewing techniques. Students will get a primer on media law, newsroom ethics and procedure. As their skills progress, they will learn to pitch, write and edit a variety of stories types – from basic news stories, to profiles, features and reviews. All students will publish at least one piece of writing in the magazine at the end of the semester.

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## Chemical &amp; Biomolecular Engineering

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EN.540.111	01	E		<b>Introduction to Programming for ChemBEs: Matlab Made Easy</b> <i>Scalise, Dominic L; Zenk, John Robert</i> Computer programming is as crucial a tool for modern engineering as calculus. Engineers use computers for almost everything: from design and manufacturing in industry to data collection and analysis in research. In this course, students will use a piece of popular engineering software, Matlab, to learn the fundamentals of programming. We will start simple, exploring such questions as: What is a program? How can we use loops and branches to accomplish a task? What exactly is Matlab doing when it's running a script? Finally, we will build upon the fundamentals of programming to tackle relevant engineering problems  This course will help ChemBE students excel in subsequent engineering courses, such as Modeling and Statistics for ChemBEs, Separations, and Chemical Kinetics, by giving students' knowledge of the tool that helps solve complex engineering problems.	1.00	24	T 5:30-6:20PM					
EN.540.202	01	E		<b>Introduction to Chemical &amp; Biological Process Analysis</b>  <i>Dahuron, Lise</i> 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	12	MWF 1:30-2:45PM; W 3:00-5:00PM				AS.171.101; Coreq: AS.030.205	
EN.540.202	02	E		<b>Introduction to Chemical &amp; Biological Process Analysis</b>  <i>Dahuron, Lise; Gray, Jeffrey J</i>	4.00	12	MWF 1:30-2:45PM; W 3:00-5:00PM					

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EN.540.202	03	E		<b>Introduction to Chemical &amp; Biological Process Analysis</b>	4.00	12	MWF 1:30-2:45PM; Th 4:30-6:30PM					
EN.540.202	04	E		<b>Introduction to Chemical &amp; Biological Process Analysis</b>	4.00	12	MWF 1:30-2:45PM; Th 4:30-6:30PM					
EN.540.203	01	E		<b>Engr Thermodynamics</b>  <i>Wang, Chao</i> 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	80	TTh 9:00-10:15AM				EN.540.202	

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EN.540.291	01	E		<b>Chemical Engineering Modeling and Design for Sophomores</b> <i>Donohue, Marc D</i> The courses 540.290, 291, 390, and 391 guide the students through the open-ended problems in product and process design. Product design concerns the recognition of customer needs, the creation of suitable specifications, and the creation of new products to fulfill a societal need. Process design concerns the quantitative description of processes which serve to produce chemically-derived materials and the estimation of process profitability. Students work in small teams to complete a major project demonstrating their understanding of and proficiency in the principles of unit operations and design. Students report weekly both orally and in writing on their accomplishments. Some projects are single semester, but others can be multi-semester. Students can start in any semester and can work on projects for as many semesters as they want.	3.00	12	TBA		Sophomores Only			
EN.540.301	01	E		<b>Kinetic Processes</b> <i>Goffin, An</i> Review of numerical methods applied to kinetic phenomena and reactor design in chemical and biological processes. Homogeneous kinetics and interpretation of reaction rate data. Batch, plug flow, and stirred tank reactor analyses, including reactors in parallel and in series. Selectivity and optimization considerations in multiple reaction systems. Non isothermal reactors. Elements of heterogeneous kinetics, including adsorption isotherms and heterogeneous catalysis. Coupled transport and chemical/biological reaction rates.	3.00	50	MWF 11:00-11:50AM				EN.540.203 AND EN.540.303	
EN.540.303	01	E		<b>Transport Phenomena I</b> <i>Konstantopoulos, K</i>	3.00	120	MWF 9:00-9:50AM					

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				Molecular mechanisms of momentum transport (viscous flow), energy transport (heat conduction), and mass transport (diffusion). Isothermal equations of change (continuity, motion, and energy). The development of the Navier Stokes equation. The development of non isothermal and multi component equations of change for heat and mass transfer. Exact solutions to steady state, isothermal unidirectional flow problems, to steady state heat and mass transfer problems. The analogies between heat, mass, and momentum transfer are emphasized throughout the course. Recommended Corequisite: AS.110.302, Introduction to the field of transport phenomena.								
EN.540.306	01	E		<b>Chemical &amp; Biomolecular Separation</b> <i>Betenbaugh, Michael J</i> This course covers staged and continuous-contacting separations processes critical to the chemical and biochemical industries. Separations technologies studied include distillation, liquid-liquid extraction, gas absorption, membrane ultrafiltration, reverse osmosis, dialysis, adsorption, and chromatography. Particular emphasis is placed on the biochemical uses of these processes and consequently on how the treatment of these processes differs from the more traditional approach.	3.00	93	TTh 3:00-4:15PM				EN.540.303 AND EN.540.202 AND EN.540.203; Students must have completed Lab Safety training prior to registering for this class.	
EN.540.307	01	N		<b>Cell Biology for Engineers</b> <i>Chan, Xin Yi; Yang, Joy T</i> This course explores fundamental structural details and molecular functions of different parts of the cell. Considerable emphasis is placed on experimental/quantitative approaches to answering these questions. Topics include Central dogma and the nucleus; protein trafficking; ion transporters; cytoskeleton; molecular motors; cell cycle and cell division; signal transduction, cell growth and cancer; cell death, the extracellular matrix; cell adhesion, cell junctions and epithelium; and muscle contraction, cell motility and morphogenesis.	3.00	120	MWF 12:00-12:50PM				AS.020.305; Cell Biology restriction: students who have completed AS.020.306[C] may not enroll.	



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EN.540.309	01	E		<b>Product Design Part 1</b> <i>Donohue, Marc D</i> This course guides the student through the contrasting aspects of product design and of process design. Product design concerns the recognition of customer needs, the creation of suitable specifications, and the selection of best products to fulfill the needs. Process design concerns the quantitative description of processes which serve to produce many commodity chemicals, the estimation of process profitability, and the potential for profitability improvement through incremental changes in the process. Students work in small teams to complete a major project demonstrating their understanding of and proficiency in the primary objectives of the course. Students report several times both orally and in writing on their accomplishments. This course is the first part two semester sequence that optionally can be taken instead of for EN.540.314 Chemical and Biomolecular Engineering Product and Process Design. The material covered is the same as in EN.540.314, but more time is allowed so that laboratory tests can be performed and/or prototypes can be made. Note that both courses in this sequence must be taken in order to satisfy the requirement that students take EN.540.314 as part of the Chemical and Biomolecular Engineering program. Recommended Course Background: EN.540.301, EN.540.304, EN.540.311 or EN.540.313 or permission of instructor.	2.00	18	TBA					Students must have completed Lab Safety training prior to registering for this class.	
EN.540.310	01	EN		<b>Product Design Part 2</b> <i>Donohue, Marc D</i>	2.00	18	TBA						

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				<p>This course is one part of a two semester sequence that optionally can be taken instead of for This course is the second part of a two semester sequence (with EN.540.309) that optionally can be taken instead of EN.540.314 Chemical and Biomolecular Engineering Product Design. Students continue to work with their team on their product design project. Students report several times both orally and in writing on their accomplishments. The material covered is the same as in EN.540.314, but more time is allowed so that laboratory tests can be performed and/or prototypes can be made. Note that both courses, EN.540.309 and EN.540.310 must be taken to satisfy the Undergraduate degree requirement of the Chemical and Biomolecular Engineering program. The two courses can be started in any term. Recommended Course Background: EN.540.301, EN.540.304, EN.540.311 or EN.540.313 or permission of instructor.</p>							Students must have completed Lab Safety training prior to registering for this class.	
EN.540.314	01	E		<p><b>ChemBE Product Design</b> <i>Dahuron, Lise</i></p> <p>This course guides the student through the contrasting aspects of product design and of process design. Product design concerns the recognition of customer needs, the creation of suitable specifications, and the selection of best products to fulfill the needs. Process design concerns the quantitative description of processes, which serve to produce many commodity chemicals, the estimation of process profitability, and the potential for profitability improvement through incremental changes in the process. Students work in small teams to complete a major project demonstrating their understanding of and proficiency in the primary objectives of the course. Students report several times both orally and in writing on their accomplishments.</p>	2.00	20	M 3:00-6:00PM				( EN.540.311 OR EN.540.313 ) AND EN.540.301 AND EN.540.306	
EN.540.314	02	E		<p><b>ChemBE Product Design</b></p>	2.00	20	Th 1:30-4:30PM					

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EN.540.314	03	E		<b>ChemBE Product Design</b> <i>Goffin, An</i>	2.00	20	Th 9:00-11:45AM					
EN.540.315	01	E		<b>Process Design with Aspen</b> <i>Dahuron, Lise</i>	2.00	24	W 3:00-4:50PM				(EN.540.311 OR EN.540.313) AND EN.540.301 AND EN.540.306	
EN.540.315	02	E		<b>Process Design with Aspen</b>	2.00	24	Th 9:00-11:00AM					
EN.540.315	03	E		<b>Process Design with Aspen</b> <i>Goffin, An</i>	2.00	24	T 10:30AM- 12:30PM					
EN.540.391	01	E		<b>Chemical Engineering Modeling and Design for Juniors</b> <i>Donohue, Marc D</i> The courses 540.290, 291, 390, and 391 guide the students through the open-ended problems in product and process design. Product design concerns the recognition of customer needs, the creation of suitable specifications, and the creation of new products to fulfill a societal need. Process design concerns the quantitative description of processes which serve to produce chemically-derived materials and the estimation of process profitability. Students work in small teams to complete a major project demonstrating their understanding of and proficiency in the principles of unit operations and design. Students report weekly both orally and in writing on their accomplishments. Some projects are single semester, but others can be multi-semester. Students can start in any semester and can work on projects for as many semesters as they want.	3.00	12	TBA		Juniors Only			
EN.540.414	01	E		<b>Computational Protein Structure Prediction and Design</b>	3.00	16	MW 3:00-4:15PM					

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				<i>Gray, Jeffrey J</i> This class will introduce the fundamental concepts in protein structure, biophysics, optimization and informatics that have enabled the breakthroughs in computational structure prediction and design. Problems covered will include protein folding and docking, design of ligand-binding sites, design of turns and folds, design of protein interfaces. Class will consist of lectures and hands-on computer workshops. Students will learn to use molecular visualization tools and write programs with the PyRosetta protein structure software suite, including a computational project. Programming experience is recommended.								
EN.540.419	01			<b>Projects in the Design of a Chemical Car</b> <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.	2.00	25	W 5:00-6:40PM					
EN.540.421	01	E		<b>Project in Design: Pharmacodynamics</b> <i>Donohue, Marc D</i> This course covers pharmacodynamics, i.e. how pharmaceuticals affect biological processes. The course will use MatLab to aid in the design of new drug formulations.	3.00	36	TBA					
EN.540.428	01	EN		<b>Supramolecular Materials and Nanomedicine</b> <i>Cui, Honggang</i>	3.00	15	TTh 7:00-8:15PM					

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				<p>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.</p>								
EN.540.436	01	EN		<p><b>Design: Pharmacokinetics/Dynamics</b> <i>Donohue, Marc D</i></p> <p>One semester overview of year long course, students that want a comprehensive understanding of pharmacokinetics and pharmacodynamics should take the 2 courses EN.540.400 and EN.540.421. This course covers the principles of pharmacokinetics and pharmacodynamics. Computer models of pharmacokinetic and pharmacodynamics behavior will be developed and then used to design better drug delivery regimens and to analyze drug chemistry modifications.</p>	3.00	16	TBA					
EN.540.440	01	E		<p><b>Micro/Nanotechnology: The Science and Engineering of Small Structures</b> <i>Gracias, David</i></p>	3.00	15	TTh 12:00-1:15PM					

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				The field of micro / nanotechnology has been gaining tremendous momentum as evidenced by an explosive rise in the number of publications, patents and commercial activities. This is an introductory course intended to expose students to the field as well as real world applications. Lectures will include an overview of scaling of material properties at the nanoscale, micro and nanofabrication methods and essential analytical tools of relevance to the field. All through the course, we will go over electronic, optical and biological applications of emerging micro and nanoscale devices and materials. Co-listed with EN.540.640.					Juniors Only; Seniors Only			
EN.540.452	01			<b>Eukaryotic Cell Biotechnology</b>  <i>Betenbaugh, Michael J</i> This course involves integrated lecture/discussion and laboratory components to review and participate in current and emerging topics involving eukaryotic biotechnology. Lectures and discussions review how fundamentals of biochemical kinetics and biomolecular engineering are connected to emerging problems in mammalian, algal, and stem cell biotechnology. Laboratory activities are connected to diverse scientific and technological fundamental topics on these same themes. Journal article and research presentations provide a context for laboratory activities with respect to emerging industrial applications for eukaryotic cell types. Research design and strategy is discussed in terms of its ultimate implementation in laboratory, pilot plant, and eventually manufacturing facilities. Methodologies implemented include cell and metabolic engineering for improving yields and production rates of proteins, cells, and tissues. Example topics include expansion of mammalian, stem cells, and algae for the production of membrane proteins, biologics, biofuels, and complex metabolites.	2.00	15	T 5:30-6:30PM; W 5:00-6:00PM	The mammalian group meets in Maryland 226B on Tuesdays.				
EN.540.459	01	E		<b>Bioengineering in Regenerative Medicine</b> <i>Gerecht, Sharon</i>	3.00	30	MW 1:30-2:45PM					

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				<p>Introduction and in-depth discussion course focused on tissue and stem cell engineering. The course will focus on principles in tissue engineering, mechanisms of regeneration, and stem cell therapies. Topics will include introduction to regenerative medicine, bioreactors and scaffolds in tissue engineering, adult and pluripotent stem cells, engineering the niche, and two sessions will focus on legal and ethical issues. Selected approaches to analyze tissues and stem cell culture will also be discussed. In addition, the course will be integrated with graduate students' presentations on selected topics in stem cell engineering. Co-listed with EN.540.659 Recommended Course Background: AS.020.306 or EN.580.221.</p>								
EN.540.490	01	E		<p><b>Chemical Laboratory Safety</b> <i>Dahuron, Lise; Kuespert, Daniel</i></p> <p>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 EN.540.311/EN.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.</p>	1.00	50	Th 1:30-2:45PM					

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## Civil Engineering

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EN.560.141	01	EQ	W	<b>Perspectives on the Evolution of Structures</b> <i>Sangree, Rachel H</i> Why do buildings and bridges look the way they do today? Students will be provided the tools to answer this question for themselves through a study of the history of the design of buildings and bridges throughout the world from both engineering and architectural/aesthetic perspectives. Only simple mathematics is required (no calculus). Students will participate in individual and group critique of structures from engineering, architectural, and social points of view.	3.00	100	TTh 3:00-4:15PM					
EN.560.202	01	E		<b>Dynamics</b> <i>Graham-Brady, Lori</i> Basic principles of classical mechanics applied to the motion of particles, system of particles and rigid bodies. Kinematics: analytical description of motion; rectilinear and curvilinear motions of particles; rigid body motion. Kinetics: force, mass, and acceleration; energy and momentum principles. Introduction to vibration. Includes laboratory experience.	4.00	8	TTh 10:30-11:45AM; M 3:00-5:00PM	Labs will meet in Latrobe 14.			Students must have completed Lab Safety training prior to registering for this class.; ( EN.560.201 OR EN.530.201 ) AND AS.110.109 AND (AS.171.101 or (EN.530.103 AND EN.530.104))	
EN.560.202	02	E		<b>Dynamics</b>	4.00	8	TTh 10:30-11:45AM; Th 4:00-6:00PM					
EN.560.206	01	E		<b>Solid Mechanics &amp; Theory of Structures</b> <i>Shields, Michael D</i>	4.00	35	Th 1:30-2:45PM; MW 1:30-2:45PM					



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				Application of the principles of structural analysis for statically determinant and indeterminant structures (trusses, cables, beams, arches, and frames). Calculation of internal forces and stresses in members and structures. Determination of deflections by equilibrium and energy methods. Analysis of indeterminate structures by flexibility and stiffness methods.							EN.560.201 OR EN.530.201	
EN.560.325	01	E		<b>Structural Design II</b>	3.00	25	MW 12:00-1:15PM					
				<i>Sangree, Rachel H</i> A continuation of Structural Design I, this course explores the behavior and conceptual design of structures. Emphasis is placed on identifying load paths through typical gravity and lateral load systems, modeling loads on real structures, and designing structural systems. Designing connections capable of transferring loads through a structural system will also be covered. Recommended Course Background: EN.560.320							EN.560.206	
EN.560.330	01	E		<b>Foundation Design</b>	3.00	30	W 4:30-6:00PM; F 11:00-11:50AM					
				<i>de Melo, Lucas T</i> Application of soil mechanics theory and soil test results to the analysis and design of foundations for structures; retaining walls; embankments; design of pile and shallow footing foundations; slope stability.							EN.560.305	
EN.560.348	01	E		<b>Probability &amp; Statistics for Engineers</b>	3.00	100	TTh 9:00-10:15AM					
				<i>Siddiqui, Sauleh A</i> Development and applications of the analysis of uncertainty, including basic probability, statistics and decision theory, in civil engineering systems. Recommended Course Background: AS.110.109								
EN.560.431	01	E		<b>Preservation Engineering II: Theory and Practice</b>	3.00	19	W 4:30-7:30PM					

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				<p><i>Meade, Edmund P; Spivey, Justin M</i> Building on the content in Preservation Engineering I: Theory and Practice, this course will begin with materials introduced at the start of the Industrial Revolution--namely with the beginning of the use of iron materials as major structural elements within buildings. The course will continue with the introduction of cast iron, wrought iron, and finally, structural steel members. After introducing iron materials the course will continue with the early use of reinforced concrete as a major structural material. The course will discuss the historic structural analysis methods associated with such materials and contrast such methods with more modern analytical approaches. It will also discuss concrete deterioration and repair methods. Concepts related to masonry facade investigation and repair will be presented along with the analytical methods associated with thin-shell masonry construction from the 19th and 20th centuries. The course will conclude with a review of the assessment and retrofit of historic foundations.</p>								
EN.560.442	01	E		<p><b>Equilibrium Models in Systems Engineering</b> <i>Siddiqui, Sauleh A</i> Provide an introduction to equilibrium problems involving systems. The course will start with an introduction to optimization theory followed by various equilibrium problems including market, spatial, and network models. Solution techniques to these types of problems will be discussed, along with applications to systems engineering. Recommended Course Background: AS.110.201 and AS.110.109 or equivalent.</p>	3.00	19	TTh 1:30-2:45PM					
EN.560.447	01	ES		<p><b>Systems Science for a Dynamic World</b> <i>Epstein, Joshua; Hatna, Erez</i></p>	3.00	50	W 3:00-5:30PM					

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## Civil Engineering

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				The course provides an interdisciplinary overview of mathematical and computational models of human driven systems. It spans a wide range of topics including the spread of infectious diseases, the dynamics of revolution and civil violence, ethnic segregation, land use change, urban disaster preparedness, computational reconstruction of ancient civilizations, and more. The course prepares students to develop their own models—alone or in teams. The NetLogo modeling environment will be presented, although students are welcome to use any language. Students are assessed by class projects at the end of the course.								
EN.560.452	01	E		<b>Civil Engineering Design II</b> <i>Matteo, John</i>	3.00	19	Th 4:00-6:50PM		Seniors Only			
				A study of the engineering design process from problem definition to the final design. There are team projects which include written and oral presentations. Requirements: Student must be a senior in Civil Engineering.								
EN.560.491	01	E		<b>Civil Engineering Seminar I</b> <i>Sangree, Rachel H</i>	0.50	50	T 12:00-12:50PM					
				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.560.492	01	E		<b>Civil Engineering Seminar II</b> <i>Sangree, Rachel H</i>	0.50	50	T 12:00-12:50PM				EN.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.560.493	01	E		<b>Civil Engineering Seminar III</b> <i>Sangree, Rachel H</i>	0.50	50	T 12:00-12:50PM					



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## Computer Science

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EN.520.434	01			<b>Modern Biomedical Imaging Instrumentation and Techniques</b> <i>Tsui, Benjamin</i> An intermediate biomedical imaging course covering modern biomedical imaging instrumentation and techniques as applied to diagnostic radiology and other biomedical applications. It includes recent advances in various biomedical imaging modalities, multi-modality imaging and molecular imaging. The course is team taught by experts in the respective fields and provides a broad based knowledge of modern biomedical imaging to prepare students for graduate studies and research in biomedical imaging. Also, the course will offer tours and practical experience with modern biomedical imaging equipments in clinical and research settings. Co-listed with EN.580.473	3.00	22	TTh 9:00-10:15AM	Prereq: 520.432 or 580.472			EN.520.432 OR EN.580.472	
EN.520.447	01	EQ		<b>Information Theory</b> <i>Khudanpur, Sanjeev</i> This course will address some basic scientific questions about systems that store or communicate information. Mathematical models will be developed for (1) the process of error-free data compression leading to the notion of entropy, (2) data (e.g. image) compression with slightly degraded reproduction leading to rate-distortion theory and (3) error-free communication of information over noisy channels leading to the notion of channel capacity. It will be shown how these quantitative measures of information have fundamental connections with statistical physics (thermodynamics), computer science (string complexity), economics (optimal portfolios), probability theory (large deviations), and statistics (Fisher information, hypothesis testing).	3.00	50	MWF 1:30-2:20PM					
EN.580.473	01	EN		<b>Modern Biomedical Imaging Instrumentation and Techniques</b> <i>Tsui, Benjamin</i>	3.00	10	TTh 9:00-10:15AM					

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				An intermediate biomedical imaging course covering modern biomedical imaging instrumentation and techniques as applied to diagnostic radiology and other biomedical applications. It includes recent advances in various biomedical imaging modalities, multi-modality imaging and molecular imaging. The course is team taught by experts in the respective fields and provides a broad based knowledge of modern biomedical imaging to prepare students for graduate studies and research in biomedical imaging. Also, the course will offer tours and practical experience with modern biomedical imaging equipment in clinical and research settings. Co-listed with EN.520.434 Recommended course background: EN.520.432 or EN.580.472								EN.520.432 OR EN.580.472	
EN.600.104	01	H		<b>Computer Ethics</b> <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	1.00	20	W 6:00-8:00PM	CS majors only		Z Major Computer Science			
EN.600.107	01	E		<b>Introductory Programming in Java</b> <i>More, Sara K</i>	3.00	150	MW 1:30-2:45PM						

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				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. First-time programmers are strongly advised to take EN.600.108 concurrently in Fall/Spring semesters.							Students may receive credit for EN.600.107 or EN.600.112, but not both.	
EN.600.108	01	E		<b>Introduction to Programming Lab</b> <i>More, Sara K</i>	1.00	24	W 6:00-9:00PM					
				This course is intended for novice programmers, and must be taken in conjunction with EN.600.107. The purpose of this course is to give first-time 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. Must have familiarity with computers. Satisfactory/Unsatisfactory only.							Coreq for EN.600.108: EN.600.107	
EN.600.108	02	E		<b>Introduction to Programming Lab</b>	1.00	24	Th 4:30-7:30PM					
EN.600.108	03	E		<b>Introduction to Programming Lab</b>	1.00	16	F 1:30-4:30PM					
EN.600.120	01	E		<b>Intermediate Programming</b> <i>More, Sara K</i>	4.00	30	MWF 12:00-1:15PM					

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				<p>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. Recommended Course Background: AP CS, EN.600.107, EN.600.111, EN.600.112 or equivalent.</p>								
EN.600.120	02	E		<p><b>Intermediate Programming</b></p> <p><i>Langmead, Benjamin</i></p>	4.00	30	MWF 3:00-4:15PM	Computer Science and Computer Engineering majors only.	Z Major Computer Science; Z Major Computer Engineering			
EN.600.120	03	E		<p><b>Intermediate Programming</b></p> <p><i>More, Sara K</i></p>	4.00	30	TThF 1:30-2:45PM					
EN.600.226	01	EQ		<p><b>Data Structures</b></p> <p><i>Hager, Gregory</i></p> <p>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. Recommended Course Background: AP CS, EN.600.107 or EN.600.120 .</p>	4.00	45	MWF 1:30-2:45PM	Computer Science and Computer Engineering majors only.	Z Major Computer Science; Z Major Computer Engineering; Z Minor Computer Science			



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EN.600.226	02	EQ		<b>Data Structures</b>	4.00	65	MWF 3:00-4:15PM					
EN.600.233	01	E		<b>Computer System Fundamentals</b>  <i>Froehlich, Peter</i> [Formerly EN.600.333/433] We study the design and performance of a variety of computer systems from simple 8-bit micro-controllers through 32/64-bit RISC architectures all the way to ubiquitous x86 CISC architecture. We'll start from logic gates and digital circuits before delving into arithmetic and logic units, registers, caches, memory, stacks and procedure calls, pipelined execution, super-scalar architectures, memory management units, etc. Along the way we'll study several typical instruction set architectures and review concepts such as interrupts, hardware and software exceptions, serial and other peripheral communications protocols, etc. A number of programming projects, frequently done in assembly language and using various processor simulators, round out the course. [Systems] . Students may receive credit for only one of EN.600.233, EN.600.333 or EN.600.433. Recommended Course Background: intro programming	3.00	45	MWF 1:30-2:20PM	Computer Science and Computer Engineering majors only.	Z Major Computer Science; Z Major Computer Engineering			
EN.600.233	02	E		<b>Computer System Fundamentals</b>	3.00	30	MWF 1:30-2:20PM					
EN.600.250	01	E		<b>User Interfaces and Mobile Applications</b> <i>Selinski, Joanne F</i>	3.00	35	TTh 3:00-4:15PM					

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				This course will provide students with a rich development experience, focused on the design and implementation of user interfaces and mobile applications. A brief overview of human computer interaction will provide context for designing, prototyping and evaluating user interfaces. Students will invent their own mobile applications and implement them using the Android SDK, which is JAVA based. An overview of the Android platform and available technologies will be provided, as well as XML for layouts, and general concepts for effective mobile development. Students will be expected to explore and experiment with outside resources in order to learn technical details independently. There will also be an emphasis on building teamwork skills, and on using modern development techniques and tools.							EN.600.120 AND EN.600.226	
EN.600.271	01	EQ		<b>Automata &amp; Computation Theory</b> <i>Li, Xin</i> This course is an introduction to the theory of computing. topics include design of finite state automata, pushdown automata, linear bounded automata, Turing machines and phrase structure grammars; correspondence between automata and grammars; computable functions, decidable and undecidable problems, P and NP problems, NP-completeness, and randomization. Students may not receive credit for EN.600.271 and EN.600.471 for the same degree.	3.00	75	TTh 1:30-2:45PM				Prerequisite: EN.550.171	
EN.600.316	01	E		<b>Database Systems</b> <i>Ahmad, Yanif N</i>	3.00	20	MW 12:00-1:15PM					

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				<p>This course serves as an introduction to the architecture and design of modern database management systems. topics include query processing algorithms and data structures, data organization and storage, query optimization and cost modeling, transaction management and concurrency control, high-availability mechanisms, parallel and distributed databases, and a survey of modern architectures including NoSQL, column-oriented and streaming databases. Course work includes programming assignments and experimentation in a simple database framework written in Java. [Systems] Students may receive credit for EN.600.316 or EN.600.416, but not both.</p>							EN.600.120 AND EN.600.226; Students may receive credit for EN.600.316 or EN.600.416, but not both.	
EN.600.328	01	E		<p><b>Compilers and Interpreters</b></p> <p><i>Froehlich, Peter</i></p> <p>Introduction to compiler design, including lexical analysis, parsing, syntax-directed translation, symbol tables, run-time environments, and code generation and optimization. Students are required to write a compiler as a course project. [Systems] Co-listed with EN.600.428</p>	3.00	30	MWF 10:00-10:50AM				EN.600.120 AND EN.600.226	
EN.600.339	01	E		<p><b>Introduction to Genomic Research</b></p> <p><i>Salzberg, Steven L</i></p>	3.00	24	TTh 3:00-4:15PM					

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				<p>This course will use a project-based approach to introduce undergraduates to research in computational biology and genomics. During the semester, students will take a series of large data sets, all derived from recent research, and learn all the computational steps required to convert raw data into a polished analysis. Data challenges might include the DNA sequences from a bacterial genome project, the RNA sequences from an experiment to measure gene expression, the DNA from a human microbiome sequencing experiment, and others. Topics may vary from year to year. In addition to computational data analysis, students will learn to do critical reading of the scientific literature by reading high-profile research papers that generated groundbreaking or controversial results. [Applications] Recommended Course Background: Knowledge of the Unix operating system and programming expertise in a language such as Perl or Python.</p>								
EN.600.344	01	E		<b>Computer Network Fundamentals</b>	3.00	25	TTh 9:00-10:15AM					
				<p><i>Rubin, Aviel D</i></p> <p>Topics covered will include application layer protocols (e.g. HTTP, FTP, SMTP), transport layer protocols (UDP, TCP), network layer protocols (e.g. IP, ICMP), link layer protocols (e.g. Ethernet) and wireless protocols (e.g. IEEE 802.11). The course will also cover routing protocols such as link state and distance vector, multicast routing, and path vector protocols (e.g. BGP). The class will examine security issues such as firewalls and denial of service attacks. We will also study DNS, NAT, Web caching and CDNs, peer to peer, and protocol tunneling. Finally, we will explore security protocols (e.g. TLS, SSH, IPsec), as well as some basic cryptography necessary to understand these. Grading will be based on hands-on programming assignments, homeworks and two exams. [Systems] Students can only receive credit for EN.600.344 or EN.600.444, not both.</p>								
				<p>Prereq: EN.600.120 and EN.600.233/433 or permission. Students can only receive credit for 600.344 or</p>								
				<p>Prereqs For EN.600.344: EN.600.233 or permission. Students can only receive credit for En.600.344 or EN.600.444, not both; Students can only receive credit for EN.600.344 or EN.600.444, not both.</p>								
EN.600.355	01	E		<b>Video Game Design Project</b>	3.00	20	W 4:30-7:30PM					
				<p><i>Froehlich, Peter</i></p>								

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				An intensive capstone design project experience in video game development. Students will work in groups of 4-8 on developing a complete video game of publishable quality. Teams will (hopefully) include programmers, visual artists, composers, and writers. Students will be mentored by experts from industry and academia. Aside from the project itself, project management and communication skills will be emphasized. Enrollment is limited to ensure parity between the various disciplines. [General] May involve travel to MICA. Junior or senior standing recommended.				May involve travel to MICA.			EN.600.255 AND EN.600.256 or permission of instructor	
EN.600.363	01	EQ		<b>Introduction To Algorithms</b>	3.00	30	TTh 9:00-10:15AM					
				<i>Braverman, Vladimir</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] Students may receive credit for EN.600.363 or EN.600.463, but not both.				Prereq: 600.226 and 550.171 or Perm. Req'd.			EN.600.226 and EN.550.171 or permission	
EN.600.402	01	E		<b>Digital Health and Biomedical Informatics</b>	1.00	30	MW 4:30-5:45PM					
				<i>Lehmann, Harold P</i> Advances in technology are driving a change in medicine, from personalized medicine to population health. Computers and information technology will be critical to this transition. We shall discuss some of the coming changes in terms of computer technology, including computer-based patient records, clinical practice guidelines, and region-wide health information exchanges. We will discuss the underlying technologies driving these developments - databases and warehouses, controlled vocabularies, and decision support.				Short course meets 4 weeks: 2/1-2/24				

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EN.600.411	01	E		<b>Computer Science Innovation &amp; Entrepreneurship II</b> <i>Aronhime, Lawrence; Dahbura, Anton T</i> This course is the second half of a two-course sequence and is a continuation of course EN.660.410.01, CS Innovation and Entrepreneurship, offered by the Center for Leadership Education (CLE). In this sequel course the student groups, directed by CS faculty, will implement the business idea which was developed in the first course and will present the implementations and business plans to an outside panel made up of practitioners, industry representatives, and venture capitalists. [General]	3.00	20	M 3:00-5:45PM				EN.660.410 AND ( EN.600.321 OR EN.600.421)	
EN.600.416	01	E		<b>Database Systems</b> <i>Ahmad, Yanif N</i> Similar material as EN.600.316, covered in more depth. Intended for upper-level undergraduates and graduate students. Students may receive credit for EN.600.316 or EN.600.416, but not both. Recommended Course Background: EN.600.120 and EN.600.226	3.00	30	MW 12:00-1:15PM	Prereq: 600.120 and 600.226. Students may receive credit for 600.316 or 600.416, but not both.			Students may receive credit for EN.600.316 or EN.600.416, but not both.	
EN.600.424	01	E		<b>Network Security</b> <i>Nielson, Seth J</i> This course focuses on communication security in computer systems and networks. The course is intended to provide students with an introduction to the field of network security. The course covers network security services such as authentication and access control, integrity and confidentiality of data, firewalls and related technologies, Web security and privacy. Course work involves implementing various security techniques. A course project is required. [Systems] EN.600.120 (or equivalent) recommended. Recommend Course Background: 600.120, 600.226, 600.344, 600.444 or permission.	3.00	30	TTh 3:00-4:15PM	Recommend Course Background: 600.120, 600.226, 600.344, 600.444 or permission			600.226 and (600.344 or 600.444) or permission; 600.120 (or equivalent) recommended.	
EN.600.426	01	EQ		<b>Principles of Programming Languages</b> <i>Smith, Scott F</i>	3.00	40	MW 1:30-2:45PM					

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				Functional, object-oriented, and other language features are studied independent of a particular programming language. Students become familiar with these features by implementing them. Most of the implementations are in the form of small language interpreters. Some type checkers and a small compiler will also be written. The total amount of code written will not be overly large, as the emphasis is on concepts. The ML programming language is the implementation language used. [Analysis] Requistes include 600.226. No Freshmen or Sophomores.				Required course background: 600.226. Freshmen and sophomores by permission only.	Juniors Only; Seniors Only; Grad Grade System			
EN.600.428	01	E		<b>Compilers &amp; Interpreters</b>  <i>Froehlich, Peter</i> Introduction to compiler design, including lexical analysis, parsing, syntax-directed translation, symbol tables, run-time environments, and code generation and optimization. Students are required to write a compiler as a course project. Co-listed with EN.600.328. Students should have knowledge of C/C++ programming and data structures. Graduate version of EN.600.328. Students may receive credit for EN.600.328 or EN.600.428, but not both.	3.00	30	MWF 10:00-10:50AM				EN.600.120 AND EN.600.226	
EN.600.436	01	E		<b>Algorithms for Sensor-Based Robotics</b>  <i>Leonard, Simon</i> This course surveys the development of robotic systems for navigating in an environment from an algorithmic perspective. It will cover basic kinematics, configuration space concepts, motion planning, and localization and mapping. It will describe these concepts in the context of the ROS software system, and will present examples relevant to mobile platforms, manipulation, robotics surgery, and human-machine systems. [Analysis] Formerly EN.600.336. Students may receive credit for only one of EN.600.336, EN.600.436 and EN.600.636.	3.00	30	TTh 12:00-1:15PM				EN.600.226 and Linear Algebra and Probability; Students may receive credit for only one of EN.600.336, EN.600.436 and EN.600.636.	

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EN.600.438	01	E		<b>Computational Genomics: Data Analysis</b>  <i>Battle, Alexis</i> Genomic data has the potential to reveal causes of disease, novel drug targets, and relationships among genes and pathways in our cells. However, identifying meaningful patterns from high-dimensional genomic data has required development of new computational tools. This course will cover current approaches in computational analysis of genomic data with a focus on statistical methods and machine learning. Topics will include disease association, prediction tasks, clustering and dimensionality reduction, data integration, and network reconstruction. There will be some programming and a project component. [Applications] Recommended Course Background: EN.600.226 or other programming experience, probability and statistics, linear algebra or calculus. Students may receive credit for EN.600.438 or EN.600.638, but not both.	3.00	25	TTh 9:00-10:15AM	Recommended Course Background: 600.226 or other programming experience, probability and statistics,			Students may receive credit for EN.600.438 or EN.600.638, but not both.	
EN.600.444	01	E		<b>Computer Networks</b>  <i>Rubin, Aviel D</i> This course considers intersystem communications issues. Topics covered include layered network architectures; the OSI model; bandwidth, data rates, modems, multiplexing, error detection/correction; switching; queuing models, circuit switching, packet switching; performance analysis of protocols, local area networks; and congestion control. Recommended Course Background: EN.600.120 and EN.600.233. Students can only receive credit for EN.600.344 or EN.600.444, not both.	3.00	25	TTh 9:00-10:15AM	Recommended Prereq: 600.120 and 600.233, Students can only receive credit for 600.344 or 600.444,			Students can only receive credit for EN.600.344 or EN.600.444, not both.	
EN.600.446	01	E		<b>Computer Integrated Surgery II</b>  <i>Taylor, Russell H</i>	3.00	40	TTh 1:30-2:45PM					



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				This weekly lecture/seminar course addresses similar material to EN.600.445, but covers selected topics in greater depth. In addition to material covered in lectures/seminars by the instructor and other faculty, students are expected to read and provide critical analysis/presentations of selected papers in recitation sessions. Students taking this course are required to undertake and report on a significant term project under the supervision of the instructor and clinical end users. Typically, this project is an extension of the term project from EN.600.445, although it does not have to be. Grades are based both on the project and on classroom recitations. Students wishing to attend the weekly lectures as a 1-credit seminar should sign up for EN.600.452. Students may also take this course as EN.600.646. The only difference between EN.600.446 and EN.600.646 is the level of project undertaken. Typically, EN.600.646 projects require a greater degree of mathematical, image processing, or modeling background. Prospective students should consult with the instructor as to which course number is appropriate. [Applications] Students may receive credit for EN.600.446 or EN.600.646, but not both.				Prereq: 600.445 or perm req'd. Grad students register for 600.646 instead.				Prereq for EN.600.446: EN.600.445 or EN.600.645 or permission	

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## Computer Science

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.600.451	01	E		<b>Introduction to Bitcoin and Other Cryptocurrencies</b> <i>Ateniese, Giuseppe</i> This course covers the basics of Bitcoin and the underlying technologies driving it. The course is intended for students interested in the cryptographic techniques devised to make digital currencies and payment systems secure. Topics include Bitcoin transactions, the blockchain, mining, and decentralized consensus. The course will include a brief introduction to public-key cryptography, digital signatures, hash functions, proof of work/space, multisignatures, and elliptic curve cryptography. The course concludes with an overview of the Bitcoin scripting language and Bitcoin 2.0 platforms. [Systems] Recommended Course Background: EN.600.344/444 (Computer Networks) and EN.550.171 (Discrete Math)	3.00	30	MW 12:00-1:15PM				EN.600.226	
EN.600.452	01	E		<b>Seminar: Computer Integrated Surgery II</b> <i>Taylor, Russell H</i> Students may receive credit for EN.600.446 or EN.600.452, but not both. Lecture only version of EN.600.446 (no project). Recommended Course Background: EN.600.445 or instructor permission required.	1.00	5	TTh 1:30-2:45PM	Prereq: 600.445 or perm req'd.				
EN.600.459	01	EQ		<b>Computational Geometry</b> <i>Kazhdan, Michael</i> This course will provide an introduction to computational geometry. It will cover a number of topics in two- and three-dimensions, including polygon triangulations and partitions, convex hulls, Delaunay and Voronoi diagrams, arrangements, and spatial queries. Time-permitting, we will also look at kD-trees, general BSP-trees, and quadtrees. [Analysis] Recommended Course Background: EN.600.120 AND EN.600.226 AND (EN.600.363 OR EN.600.463).	3.00	20	MW 1:30-2:45PM				Students may receive credit for EN.600.459 or EN.600.659, but not both.	
EN.600.463	01	EQ		<b>Algorithms I</b> <i>Braverman, Vladimir</i>	3.00	30	TTh 9:00-10:15AM					



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				An in-depth, hands-on study of current information retrieval techniques and their application to developing intelligent WWW agents. Topics include a comprehensive study of current document retrieval models, mail/news routing and filtering, document clustering, automatic indexing, query expansion, relevance feedback, user modeling, information visualization and usage pattern analysis. In addition, the course explores the range of additional language processing steps useful for template filling and information extraction from retrieved documents, focusing on recent, primarily statistical methods. The course concludes with a study of current issues in information retrieval and data mining on the World Wide Web. Topics include web robots, spiders, agents and search engines, exploring both their practical implementation and the economic and legal issues surrounding their use. Recommended Course Background: EN.600.226								
EN.600.468	01	E		<b>Machine Translation</b> <i>Koehn, Philipp</i> Google translate can instantly translate between any pair of over fifty human languages (for instance, from French to English). How does it do that? Why does it make the errors that it does? And how can you build something better? Modern translation systems learn to translate by reading millions of words of already translated text, and this course will show you how they work. The course covers a diverse set of fundamental building blocks from linguistics, machine learning, algorithms, data structures, and formal language theory, along with their application to a real and difficult problem in artificial intelligence. Recommended Course Background: prob/stat, EN.600.226; EN.600.465	3.00	30	TTh 1:30-2:45PM					
EN.600.473	01	EQ		<b>Algorithmic Game Theory</b> <i>Dinitz, Michael H</i>	3.00	20	TTh 3:00-4:15PM					

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				<p>This course provides an introduction to algorithmic game theory: the study of games from the perspective of algorithms and theoretical computer science. There will be a particular focus on games that arise naturally from economic interactions involving computer systems (such as economic interactions between large-scale networks, online advertising markets, etc.), but there will also be broad coverage of games and mechanisms of all sorts. Topics covered will include a) complexity of computing equilibria and algorithms for doing so, b) (in)efficiency of equilibria, and c) algorithmic mechanism design. [Analysis]</p> <p>Students may receive credit for EN.600.473 or EN.600.673, but not both.</p>							EN.600.363 OR EN.600.463 OR permission.;	Students may receive credit for EN.600.473 or EN.600.673, but not both.	

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EN.600.476	01	EQ		<b>Machine Learning: Data to Models</b> <i>Saria, Suchi</i> How can robots localize themselves in an environment when navigating? Can we predict which patients are at greatest-risk for complications in the hospital? Which movie should I recommend to this user given his history of likes? Many such big data questions can be answered using the paradigm of probabilistic models in machine learning. These are especially useful when common off-the-shelf algorithms such as support vector machines and k-means fail. You will learn methods for clustering, classification, structured prediction, recommendation and inference. We will use Murphy's book, Machine Learning: a Probabilistic Perspective, as the text for this course. Assignments are solved in groups of size 1-3 students. The class will have 4 interactive sessions during which we brainstorm how to solve example open-ended real-world problems with the tools learnt in class. Students are also required to do a project of their choice within which they experiment with the ideas learnt in class. [Analysis or Applications] Students may receive credit for EN.600.476 or EN.600.676, but not both. Requisites include Intro Prob/Stat, Linear Algebra and Intro Machine Learning as well as strong background in s.	3.00	15	TTh 4:30-5:45PM	Pre-reqs: 1) Intro Prob/Stat, Linear Algebra and Intro Machine Learning OR 2) Strong background in s					

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## Electrical &amp; Computer Engineering

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EN.510.314	01	EN		<b>Electronic Properties of Materials</b>  <i>Poehler, Theodore O</i> Fourth of the Introduction to Materials Science series, this course is devoted to a study of the electronic, optical and magnetic properties of materials. Lecture topics include electrical and thermal conductivity, thermoelectricity, transport phenomena, dielectric effects, piezoelectricity, and magnetic phenomena.	3.00	40	MWF 11:00-11:50AM				EN.510.311 AND EN.510.202 or another programming course, or permission of instructor.	
EN.520.142	01	EQ		<b>Digital Systems Fundamentals</b>  <i>Julian, Pedro Marcelo; Meyer, Gerard G</i> Number systems and computer codes, switching functions, minimization of switching functions, Quine - McCluskey method, sequential logic, state tables, memory devices, analysis, and synthesis of synchronous sequential devices.	3.00	93	MWF 11:00-11:50AM					
EN.520.150	01	E		<b>Light, Image and Vision</b>  <i>Kang, Jin U</i> This course is designed for beginning undergraduate students and covers the principle of optics and imaging from the human vision perspective. The topics for the course include the basic principles and properties of light, imaging and image formation, optical imaging and display systems, and human vision. The course include bio-weekly labs that allows students to implement and experience the concepts learned during the lectures.	3.00	50	TTh 10:30-11:45AM					

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EN.520.212	02	E		<b>ECE Engineering Team Project (Freshmen and Sophomores)</b> <i>Etienne Cummings, Ralph</i> This course introduces the student to the basics of engineering team projects. The student will participate in an ECE engineering team project as a member. The student is expected to participate in the different aspects of the project over several semesters. (Freshmen and Sophomores) Permission of instructor required.	1.00	100	WTh 4:30-5:45PM	Permission of instructor required. Will meet in Hackerman 224.	Freshmen Only; Sophomores Only			
EN.520.212	03	E		<b>ECE Engineering Team Project (Freshmen and Sophomores)</b>	1.00	100	WTh 4:30-5:45PM					
EN.520.214	01	EQ		<b>Signals &amp; Systems</b>  <i>Elhilali, Mounya</i> An introduction to discrete-time and continuous-time signals and systems covers representation of signals and linear time-invariant systems and Fourier analysis.	4.00	28	TTh 10:30-11:45AM; W 4:30-5:30PM				Corequisite: AS.110.202; Prerequisite: EN.520.213	
EN.520.214	02	EQ		<b>Signals &amp; Systems</b>	4.00	28	TTh 10:30-11:45AM; M 3:30-4:30PM					
EN.520.216	01	E		<b>Introduction To VLSI</b> <i>Andreou, Andreas</i> This course teaches the basics of switch-level digital CMOS VLSI design. This includes creating digital gates using MOS transistors as switches, laying out a design using CAD tools, and checking the design for conformance to the Scalable CMOS design rules. Recommended: EN.520.213.	3.00	60	TTh 3:00-4:15PM	Prereq: EN.520.142 and recommended: 520.213			EN.520.142 and recommended: 520.213	
EN.520.220	01	EN		<b>Fields, Matter &amp; Waves</b> <i>Foster, Mark A</i>	3.00	35	MW 3:00-4:15PM					



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				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.				Prerequisites: 520.219 Fields, Matter and Waves or equivalent.			EN.520.219 or equivalent	
EN.520.222	01	E		<b>Computer Architecture</b> <i>Pouliquen, Philippe O</i> A study of the structure and organization of classical von Neuman uniprocessor computers. Topics include a brief history of modern machines starting from the Turing computer model, instruction sets, addressing, RISC versus CICS, traps and interrupt handling, twos complement arithmetic, adders and ALUs, CSA's Booth's algorithm, multiplication and division, control unit design, microprogramming, dynamic versus static linking, memory systems and memory hierarchy, paging segmentation, cache hardware, cache organizations, and replacement policies.	3.00	25	TTh 3:00-4:15PM	Prereq: 520.142			EN.520.142	
EN.520.353	01	E		<b>Control Systems</b> <i>Tarraf, Danielle</i> Modeling, analysis, and an introduction to design for feedback control systems. Topics include state equation and transfer function representations, stability, performance measures, root locus methods, and frequency response methods (Nyquist, Bode).	3.00	35	TTh 1:30-2:45PM					
EN.520.372	01	E		<b>Programmable Device Lab</b> <i>Glaser, Robert E</i>	3.00	20	Th 12:00-12:50PM; Th 1:30-4:20PM					

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				The use of programmable memories (ROMs, EPROMs, and EEPROMs) as circuit elements (as opposed to storage of computer instructions) is covered, along with programmable logic devices (PALs and GALs). These parts permit condensing dozens of standard logic packages (TTL logic) into one or more off-the-shelf components. Students design and build circuits using these devices with the assistance of CAD software. Topics include programming EEPROMs; using PLDs as address decoders; synchronous sequential logic synthesis for PLDs; and PLD-based state machines. Recommended Course Background: EN.520.142 and EN.520.345							Students must have completed Lab Safety training prior to registering for this class.	
EN.520.415	01	E		<b>Image Process &amp; Analysis II</b> <i>Goutsias, John I</i>	3.00	30	MW 4:30-5:45PM					
				This course covers fundamental methods for the processing and analysis of images and describes standard and modern techniques for the understanding of images by morphological image processing and analysis, image representation and description, image recognition and interpretation.				Prerequisite: 520.414			EN.520.414	
EN.520.433	01	E		<b>Medical Image Analysis</b> <i>Prince, Jerry Ladd</i>	3.00	40	MW 3:00-4:15PM					
				This course covers the principles and algorithms used in the processing and analysis of medical images. Topics include, interpolation, registration, enhancement, feature extraction, classification, segmentation, quantification, shape analysis, motion estimation, and visualization. Analysis of both anatomical and functional images will be studied and images from the most common medical imaging modalities will be used. Projects and assignments will provide students experience working with actual medical imaging data.				Prerequisites: 520.432 or 580.472 (Medical Imaging Systems), 550.310 or 550.311. Probability and Sta			EN.520.432 OR EN.580.472 OR EN.550.310 OR EN.550.311	
EN.520.434	01			<b>Modern Biomedical Imaging Instrumentation and Techniques</b> <i>Tsui, Benjamin</i>	3.00	22	TTh 9:00-10:15AM					

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				An intermediate biomedical imaging course covering modern biomedical imaging instrumentation and techniques as applied to diagnostic radiology and other biomedical applications. It includes recent advances in various biomedical imaging modalities, multi-modality imaging and molecular imaging. The course is team taught by experts in the respective fields and provides a broad based knowledge of modern biomedical imaging to prepare students for graduate studies and research in biomedical imaging. Also, the course will offer tours and practical experience with modern biomedical imaging equipments in clinical and research settings. Co-listed with EN.580.473				Prereq: 520.432 or 580.472			EN.520.432 OR EN.580.472	
EN.520.447	01	EQ		<b>Information Theory</b> <i>Khudanpur, Sanjeev</i> This course will address some basic scientific questions about systems that store or communicate information. Mathematical models will be developed for (1) the process of error-free data compression leading to the notion of entropy, (2) data (e.g. image) compression with slightly degraded reproduction leading to rate-distortion theory and (3) error-free communication of information over noisy channels leading to the notion of channel capacity. It will be shown how these quantitative measures of information have fundamental connections with statistical physics (thermodynamics), computer science (string complexity), economics (optimal portfolios), probability theory (large deviations), and statistics (Fisher information, hypothesis testing).	3.00	50	MWF 1:30-2:20PM					
EN.520.448	01			<b>Electronics Design Lab</b> <i>Etienne Cummings, Ralph</i>	3.00	30	W 11:00-11:50AM; F 1:30-4:20PM					

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				An advanced laboratory course in which teams of students design, build, test and document application specific information processing microsystems. Semester long projects range from sensors/actuators, mixed signal electronics, embedded microcomputers, algorithms and robotics systems design. Demonstration and documentation of projects are important aspects of the evaluation process. Recommended: EN.600.333, EN.600.334, EN.520.349, EN.520.372, EN.520.490 or EN.520.491.				Prerequisite: EN.520.345 or equivalent Recommended: 600.333, 600.334, 520.216, 520.349, 520.372, 52			EN.520.345 or equivalent Recommended: 600.333, 600.334, 520.216, 520.349, 520.372, 520.490 or 520.491.; Students must have completed Lab Safety training prior to registering for this class.	
EN.520.448	02			<b>Electronics Design Lab</b>	3.00	30	W 11:00-11:50AM; F 2:00-4:50PM					
EN.520.450	01			<b>Advanced Micro-Processor Lab</b>  <i>Glaser, Robert E</i> This course covers the usage of common microcontroller peripherals. Interrupt handling, timer operations, serial communication, digital to analog and analog to digital conversions, and flash ROM programming are done on the 68HC08, 8051, and eZ8 microcontrollers. Upon completion, students can use these flash-based chips as elements in other project courses. Recommended Course Background: EN.520.349	3.00	20	Th 10:30AM-1:20PM; Th 8:00-8:50AM	Prereq: 520.349			Students must have completed Lab Safety training prior to registering for this class.	
EN.520.450	02			<b>Advanced Micro-Processor Lab</b>	3.00	20	Th 1:30-4:20PM; Th 8:00-8:50AM					
EN.520.453	02	E		<b>Advanced ECE Engineering Team Project</b>  <i>Etienne Cummings, Ralph</i>	3.00	100	WTh 4:30-5:45PM					

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				The course introduces the student to running an engineering team project. The student will participate in the ECE engineering team project as a leading member. The student is expected to participate in the different aspects of the project over several semesters and manage both team members and the project. (Juniors and Seniors) Permission of instructor is required.				(Juniors and Seniors) Permission of instructor is required (signed add/drop form).	In Person Registration Only		Students must have completed Lab Safety training prior to registering for this class.	
EN.520.453	03	E		<b>Advanced ECE Engineering Team Project</b>	3.00	100	WTh 4:30-5:45PM					
EN.520.473	01	EN		<b>Magnetic Resonance in Medicine</b>  <i>Herzka, Daniel</i> This course provides a wide-ranging introduction to the physics and principles of magnetic resonance imaging (MRI). Topics include the resonance phenomenon, relaxation, signal formation, spatial localization, image contrast, hardware, signal processing, and image reconstruction. MATLAB simulation exercises will demonstrate key aspects of MRI and a laboratory component using the clinical MRI systems at the School of Medicine will reinforce concepts learned in class. Textbook "Principles of Magnetic Resonance Imaging" by D. Nishimura (from www.lulu.com) should be obtained before the start of the course. Recommended Course Background: (EN.520.434 or EN.580.473) or (EN.520.432 or EN.580.472). Co-listed with EN.580.476 and EN.580.673.	3.00	20	TTh 10:30-11:45AM					
EN.520.482	01	EN		<b>Introduction To Lasers</b>  <i>Khurgin, Jacob</i>	3.00	20	MW 12:00-1:15PM					

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				This course covers the basic principles of laser oscillation. Specific topics include propagation of rays and Gaussian beams in lens-like media, optical resonators, spontaneous and stimulated emission, interaction of optical radiation and atomic systems, conditions for laser oscillation, homogeneous and inhomogeneous broadening, gas lasers, solid state lasers, Q-switching and mode locking of lasers.				Prerequisites: 520.219, 520.220			EN.520.219 AND EN.520.220	
EN.520.483	01			<b>Bio-Photonics Laboratory</b> <i>Kang, Jin U</i> This laboratory course involves designing a set of basic optical experiments to characterize and understand the optical properties of biological materials. The course is designed to introduce students to the basic optical techniques used in medicine, biology, chemistry and material sciences.	3.00	30	T 1:30-4:50PM				Students must have completed Lab Safety training prior to registering for this class.	
EN.520.485	01	EN		<b>Advanced Semiconductor Devices</b> <i>Khurgin, Jacob</i> This course is designed to develop and enhance the understanding of the operating principles and performance characteristics of the modern semiconductor devices used in high speed optical communications, optical storage and information display. The emphasis is on device physics and fabrication technology. The devices include heterojunction bipolar transistors, high mobility FET's, semiconductor lasers, laser amplifiers, light-emitting diodes, detectors, solar cells and others.	3.00	20	MW 1:30-2:45PM					
EN.520.492	01	E		<b>Mixed-Mode VLSI Systems</b> <i>Pouliquen, Philippe O</i>	3.00	20	F 4:30-5:45PM; M 3:00-4:15PM					

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				Silicon models of information and signal processing functions, with implementation in mixed analog and digital CMOS integrated circuits. Aspects of structured design, scalability, parallelism, low power consumption, and robustness to process variations. Topics include digital-to-analog and analog-to-digital conversion, delta-sigma modulation, bioinstrumentation, and adaptive neural computation. The course includes a VLSI design project. Recommended Course Background: EN.521.491 or equivalent.				Prerequisites: 521.491 CAD of Digital VLSI Systems or Equivalent.				
EN.520.499	01	E		<b>Senior Design Project</b> <i>Foster, Amy C</i> Capstone design project, in which a team of students engineer a system and evaluate its performance in meeting design criteria and specifications. Example application areas are microelectronic 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		TBA			Seniors Only		
EN.520.499	02	E		<b>Senior Design Project</b> <i>Elhilali, Mounya</i>	3.00		TBA					
EN.520.499	03	E		<b>Senior Design Project</b> <i>Prince, Jerry Ladd</i>	3.00	4	TBA					
EN.520.499	04	E		<b>Senior Design Project</b> <i>Andreou, Andreas</i>	3.00	15	TBA					

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EN.520.499	05	E		<b>Senior Design Project</b> <i>Etienne Cummings, Ralph</i>	3.00		TBA					
EN.520.499	06	E		<b>Senior Design Project</b> <i>Tran, Trac Duy</i>	3.00		TBA					
EN.520.499	07	E		<b>Senior Design Project</b> <i>Tarraf, Danielle</i>	3.00		TBA					
EN.520.499	08	E		<b>Senior Design Project</b> <i>West, James E</i>	3.00	4	TBA					
EN.520.499	09	E		<b>Senior Design Project</b> <i>Cooper, A Brinton, III.</i>	3.00		TBA					
EN.520.499	10	E		<b>Senior Design Project</b> <i>Foster, Mark A</i>	3.00		TBA					



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## Entrepreneurship and Management

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EN.660.100	01	S		<b>Hopkins Leadership Challenge Seminar</b>  <i>Sanchez, Tiffany</i> The Hopkins Leadership Challenge is a one credit pass/fail seminar and is designed specifically for first year undergraduates at JHU who are interested in developing their leadership skills and applying those skills to Hopkins life. The seminar includes both a classroom component and an experiential component. The classroom content includes leadership topics, discussions with university leaders and serves as an introduction to the history, services and involvement opportunities at Hopkins. The experiential component includes programs such as JHU history, faculty student interaction, visits to other JHU campuses and more! Interested students should register early, as there is limited space available in each section of the seminar. Freshmen only. S/U only.	1.00	19	MW 12:00-1:15PM		Freshmen Only			
EN.660.100	02	S		<b>Hopkins Leadership Challenge Seminar</b>  <i>Beauchamp, Justin B</i>	1.00	19	MW 12:00-1:15PM					
EN.660.105	01	S	W	<b>Introduction to Business</b>  <i>Aronhime, Lawrence; Izenberg, Illysa B</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	20	MWF 12:00-12:50PM; T 1:30-2:20PM					

Spring 2016

## Entrepreneurship and Management

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.660.105	02	S	W	<b>Introduction to Business</b>  <i>Aronhime, Lawrence</i>	4.00	20	MWF 12:00-12:50PM; M 1:30-2:20PM					
EN.660.105	03	S	W	<b>Introduction to Business</b>	4.00	20	MWF 12:00-12:50PM; T 3:00-3:50PM					
EN.660.105	04	S	W	<b>Introduction to Business</b>	4.00	20	MWF 12:00-12:50PM; W 3:00-3:50PM					
EN.660.105	05	S	W	<b>Introduction to Business</b>	4.00	20	MWF 12:00-12:50PM; Th 1:30-2:20PM					
EN.660.105	06	S	W	<b>Introduction to Business</b>	4.00	20	MWF 12:00-12:50PM; Th 3:00-3:50PM					
EN.660.105	07	S	W	<b>Introduction to Business</b>	4.00	20	MWF 12:00-12:50PM; Th 3:00-3:50PM					
EN.660.105	08	S	W	<b>Introduction to Business</b>	4.00	20	MWF 12:00-12:50PM; M 1:30-2:20PM					
EN.660.105	09	S	W	<b>Introduction to Business</b>  <i>Izenberg, Illysa B</i>	4.00	20	TTh 10:30-11:45AM; T 3:00-3:50PM					

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EN.660.105	10	S	W	<b>Introduction to Business</b>	4.00	20	TTh 10:30-11:45AM; Th 3:00-3:50PM					
EN.660.203	01			<b>Financial Accounting</b>  <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	30	MWF 10:00-10:50AM					
EN.660.203	02			<b>Financial Accounting</b>  <i>Leps, Annette</i>	3.00	30	MW 12:00-1:15PM					
EN.660.203	03			<b>Financial Accounting</b>	3.00	30	TTh 12:00-1:15PM					
EN.660.203	04			<b>Financial Accounting</b> <i>Furlong, Sean T</i>	3.00	19	TTh 4:30-5:45PM					
EN.660.203	05			<b>Financial Accounting</b>	3.00	19	M 6:00-8:30PM					

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EN.660.203	06			<b>Financial Accounting</b>	3.00	30	TTh 10:30-11:45AM					
EN.660.250	01			<b>Principles of Marketing</b>  <i>Kendrick, Leslie</i> 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.	3.00	35	MW 12:00-1:15PM					
EN.660.250	02			<b>Principles of Marketing</b>  <i>Furst, Mary E</i>	3.00	35	TTh 9:00-10:15AM					
EN.660.250	03			<b>Principles of Marketing</b>  <i>Staff</i>	3.00	35	TTh 12:00-1:15PM					
EN.660.250	04			<b>Principles of Marketing</b>  <i>Sullivan, Dennis J.</i>	3.00	35	MW 4:30-5:45PM					

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EN.660.300	01			<b>Managerial Finance</b> <i>Priolo, Marcus</i> This course is designed to familiarize the student with the basic concepts and techniques of financial management practice. The course begins with a review of accounting, securities markets, and the finance function. The course then moves to discussion of financial planning, financial statement analysis, time value of money, interest rates and bond valuation, stock valuation, and concludes with capital budgeting and project analysis. A combination of classroom discussions, problem sets, and case studies will be used. No audits.	3.00	25	T 6:15-9:00PM				EN.660.203	
EN.660.303	01			<b>Managerial Accounting</b> <i>Leps, Annette</i> This course introduces management accounting concepts and objectives including planning, control, and the analysis of sales, expenses, and profits. Major topics include cost behavior, cost allocation, product costing (including activity based costing), standard costing and variance analysis, relevant costs, operational and capital budgeting, and performance measurement. Note: not open to students who have taken EN.660.204 Managerial Accounting. No audits.	3.00	35	TTh 10:30-11:45AM				EN.660.203	
EN.660.308	01	S		<b>Business Law I</b> <i>Fisher, David</i> 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. Note: not open to students who have taken 660.205 Business Law I. No audits.	3.00	19	M 6:15-9:00PM				EN.660.105	

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EN.660.308	02	S		<b>Business Law I</b> <i>Monti, Lindsay M.; Rakes, William Bryan</i>	3.00	19	W 6:15-9:00PM					
EN.660.308	03	S		<b>Business Law I</b> <i>Jeffers, Christopher E</i>	3.00	19	W 3:00-5:45PM					
EN.660.310	01	H		<b>Case Studies in Business Ethics</b> <i>Sandhaus, Douglas</i> 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. Not open to students who have taken EN.660.231 Case Studies in Business Ethics. No audits.	3.00	30	T 6:15-9:00PM				EN.660.105	

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EN.660.311	01	S		<b>Law and the Internet</b> <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. Note: not open to students who have taken EN.660.306 Law and the Internet. No audits.	3.00	30	W 6:15-9:00PM				EN.660.205] OR EN.660.308	
EN.660.332	01	S	W	<b>Leadership Theory</b> <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 Course Background: EN.660.105 or EN.660.220/EN.660.340. No audits.	3.00	30	MW 2:00-3:15PM	Section 01 not opened to seniors.	Freshmen Only; Sophomores Only; Juniors Only	Seats for Non-Seniors 30		
EN.660.332	02	S	W	<b>Leadership Theory</b>	3.00	30	TTh 2:00-3:15PM					
EN.660.333	01		W	<b>Leading Change</b> <i>Smedick, William D</i>	3.00	24	TTh 4:00-5:15PM					

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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 EN.660.235. No audits. Recommended Course Background: EN.660.105								
EN.660.340	01			<b>Principles of Management</b> <i>Izenberg, Illysa B</i>	3.00	19	TTh 1:30-2:45PM				EN.660.105	
				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 EN.660.220 Principles of Management. No audits.								
EN.660.341	01	W		<b>Business Process and Quality Management</b> <i>Reiter, Joshua</i>	3.00	19	M 1:30-4:15PM					



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				<p>This course focuses on both quantitative and qualitative analytical skills and models essential to operations process design, management, and improvement in both service and manufacturing oriented companies. The objective of the course is to prepare the student to play a significant role in the management of a world-class company which serves satisfied customers through empowered employees, leading to increased revenues and decreased costs. The material combines managerial issues with both technical and quantitative aspects. Practical applications to business organizations are emphasized.</p> <p>Recommended Course Background: EN.660.105 Introduction to Business or EN.660.241 IT Management. No audits</p>								
EN.660.352	01			<p><b>New Product Development</b> <i>Agronin, Michael L</i></p> <p>New product development is the ultimate interdisciplinary entrepreneurial art, combining marketing, technical, and managerial skills. A successful product lies at the intersection of the user's need, a technical solution, and compelling execution. This class will bootstrap your experience in the art through exercises and team projects. We will examine products and services, consumer and industrial, simple and technologically complex. Case studies will feature primary sources and the instructor's personal experiences as an inventor for a major consumer products company. Topics will span the product development cycle: identifying user needs, cool-hunting, brainstorming, industrial design, prototyping techniques, market research to validate new ideas, and project management -- especially for managing virtual teams and foreign manufacturers. No audits.</p>	3.00	24	M 6:15-9:00PM				EN.660.250	
EN.660.354	01			<p><b>Consumer Behavior</b> <i>Graham, Robert M.</i></p>	3.00	19	TTh 10:30-11:45AM					

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				<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. No audits.</p>								
EN.660.404	01	S		<b>Business Law II</b> <i>Fisher, David</i>	3.00	19	T 6:15-9:00PM					
				<p>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. No audits.</p>								EN.660.205 OR EN.660.308
EN.660.420	01		W	<b>Marketing Strategy</b> <i>Kendrick, Leslie</i>	3.00	19	TTh 10:30-11:45AM					

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				<p>This writing intensive course helps students develop skills in formulating, implementing, and controlling a strategic marketing program for a given product-market entry. Using a structured approach to case analysis, students will learn how to make the kinds of strategic marketing decisions that will have a long-term impact on the organization and support these decisions with quantitative analyses. Through textbook readings, students will learn how to identify appropriate marketing strategies for new, growth, mature, and declining markets and apply these strategies as they analyze a series of marketing cases. The supplementary readings, from a broad spectrum of periodicals, are more applied and will allow students to see how firms are addressing contemporary marketing challenges. In addition to analyzing cases individually, each student will be part of a team that studies a case during the latter half of the semester, developing marketing strategy recommendations, including financial projections, and presenting them to the class. No audits.</p>								
EN.660.450	01			<p><b>Advertising &amp; Integrated Marketing Communication</b> <i>Kendrick, Leslie</i></p>	3.00	38	TTh 12:00-1:15PM					



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## General Engineering

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EN.500.401	01			<b>Research Laboratory Safety</b> <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	25	TBA					
EN.500.401	02			<b>Research Laboratory Safety</b>	1.00	25	M 12:00-1:15PM					
EN.560.141	01	EQ	W	<b>Perspectives on the Evolution of Structures</b> <i>Sangree, Rachel H</i> Why do buildings and bridges look the way they do today? Students will be provided the tools to answer this question for themselves through a study of the history of the design of buildings and bridges throughout the world from both engineering and architectural/aesthetic perspectives. Only simple mathematics is required (no calculus). Students will participate in individual and group critique of structures from engineering, architectural, and social points of view.	3.00	100	TTh 3:00-4:15PM					

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## Geography &amp; Environmental Engineering

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EN.570.110	01	HS		<b>Introduction to Engineering for Sustainable Development</b> <i>Schoenberger, Erica</i> For engineering students who want to work on problems of poverty, and social and environmental dislocation, this course introduces major debates about development and explores cases of engineering interventions in developing countries to identify factors that shape success in achieving project goals and avoiding undesirable outcomes.	3.00	50	TTh 1:30-2:45PM					
EN.570.210	01	EQ		<b>Computation/Math Modeling</b> <i>Staff</i> An introduction to the use of computers in developing mathematical models. A structured approach to problem definition, solution, and presentation using spreadsheets and mathematical software. Modeling topics include elementary data analysis and model fitting, numerical modeling, dimensional analysis, optimization, simulation, temporal and spatial models. Recommended Course Background: AS.110.108 or equivalent.	3.00	30	WF 1:30-2:45PM		Freshmen Only; Sophomores Only			
EN.570.239	01	EN		<b>Emerging Environmental Issues</b> <i>Roberts, A Lynn</i> Scientific principles underpinning environmental issues, with an emphasis on potential impacts of anthropogenic perturbation on human and ecosystem health. Recommended Course Background: two semesters of Chemistry.	3.00	30	TTh 9:00-10:15AM					
EN.570.302	01	EN		<b>Water &amp; Wastewater Treatment</b> <i>Weiss, William Joshua</i> Theory and design of water and wastewater treatment processes including coagulation, sedimentation, filtration, adsorption, gas transfer, aerobic and anaerobic biological treatment processes, disinfection, and hydraulic profiles through treatment units.	3.00	40	MWF 9:00-9:50AM				EN.570.301 or permission required.	

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EN.570.304	01	EN		<b>Environmental Engineering Laboratory</b>  <i>Roberts, A Lynn</i> Introduction to laboratory measurements relevant to water supply and wastewater discharge, including pH and alkalinity, inorganic and organic contaminants in water, reactor analysis, bench testing for water treatment, and measurement and control of disinfection by-products. Recommended Course Background: EN.570.210 or Instructor Permission; Corequisite: EN.570.302.	3.00	9	Th 1:30-5:15PM; TTh 12:00-1:15PM	Prerequisite EN.570.210 or Instructor Permission and co-requisite: EN.570.302.			Students must have completed Lab Safety training prior to registering for this class.	
EN.570.304	02	EN		<b>Environmental Engineering Laboratory</b>	3.00	9	TTh 12:00-1:15PM; F 1:30-5:15PM					
EN.570.314	01	N		<b>Microbial Ecology</b> <i>Preheim, Sarah</i> This course will highlight the latest methods in biotechnology revealing ecological principles determining the diversity and dynamics of microbial communities in a variety of ecosystems. We will explore advanced topics in ecology, such as niche theory, cooperation and speciation with examples from human health, engineering and environmental microbiology.	3.00	30	TTh 3:00-4:15PM					
EN.570.328	01	N		<b>Geography &amp; Ecology of Plants</b>  <i>Brush, Grace S</i> Patterns of aquatic and terrestrial plant species; historical changes in patterns using paleobotanical techniques; emphasis on biological and physical mechanisms controlling the patterns; the role of climate and man on plant distributions; several field trips; project required, which is the basis for the final grade.	3.00	35	TTh 10:30-11:45AM					
EN.570.412	01		W	<b>Landscape Hydrology and Watershed Analysis</b> <i>Harman, Ciaran</i>	3.00	30	MWF 10:00-10:50AM					

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				The purpose of this class is to understand the landscape-scale controls on the fluxes of water and waterborne materials through watersheds. This class differs from the Hydrology and Hydrologic Modeling classes in its focus on data analysis, and its embrace of the complexity of real landscapes. There will be significant quantitative components to the material taught, but emphasis will be on developing a greater sense of the way that landscapes "function", and how this function is related to real-world issues of water resources and pollution. Students will gain an understanding of how climate, geologic and ecologic setting, and human impacts control the partitioning of water between different fates, the flowpaths through the landscape and the storage and residence time of water. They will also learn conceptual and practical tools for analyzing hydrologic and other landscape data, and integrating this data in a holistic approach to watershed analysis. The class will be of interest for students intending to go into watershed or landscape management, and anyone wishing to pursue research in hydrology, geomorphology or ecology at landscape and watershed scales. The class will include at least one field trip to an instrumented watershed. GIS skills will be an advantage but are not required.								AS.270.405 or EN 570.353 or equivalent.	
EN.570.418	01	E		<b>Multiobjective Programming and Planning</b> <i>Williams, Justin</i>	3.00	30	MW 3:00-4:15PM						
				Public sector problems are typically characterized by a multiplicity of objectives and decision makers. This course presents a relatively new area of systems analysis which is useful for such problems: multiobjective programming or vector optimization theory. The fundamental concepts are developed and various methods are presented, including multiattribute value and utility theory. Undergraduate level of EN.570.618. Recommended Course Background: EN.570.495 or Permission Required.									
EN.570.420	01			<b>Air Pollution</b> <i>Ellis, Joseph Hugh</i>	3.00	35	TTh 1:30-2:45PM						



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				The course consists of an introduction to the fundamental concepts of air pollution. Major topics of concern are aspects of atmospheric motion near the earth's surface; basic thermodynamics of the atmosphere; atmospheric stability and turbulence; equations of mean motion in turbulent flow, mean flow in the surface boundary layer; mean flow, turbulence in the friction layer; diffusion in the atmosphere; statistical theory of turbulence; plume rise. Emphasis is place upon the role and utility of such topics in a systems analysis context, e.g., development of large and mesoscale air pollution abatement strategies. Comparisons of the fundamental concepts common to both air and water pollution are discussed. This course meets with EN.570.657, Air Pollution.								
EN.570.421	01	E		<b>Environmental Engineering Design II</b> <i>Alavi, Hedy V; Bouwer, Edward J</i> Engineering design process from problem definition to final design. Team projects include written/oral presentations. Students will form small teams that work with local companies or government agencies in executing the project. Recommended Course Background: EN.570.302, EN.570.352, and EN.570.419	3.00	30	T 4:30-7:00PM					
EN.570.428	01	S	W	<b>Problems in Applied Economics</b> <i>Hanke, Steve H</i>	3.00	19	TBA; F 4:45-5:45PM					Y



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				Fundamentals and application of aerobic and anaerobic biological unit processes for the treatment of municipal and industrial wastewater. Recommended Course Background: EN.570.411								
EN.570.448	01	E		<b>Physical and Chemical Processes II</b>	3.00	30	TTh 9:00-10:15AM					
				<i>Chen, Kai Loon</i> Fundamentals and applications of physical and chemical processes used in water and wastewater treatment. This class will cover particle interactions, coagulation, flocculation, granular media filtration, membrane processes, and emerging water treatment processes. Recommended Course Background: EN.570.445 or Permission Required.								
EN.570.449	01	HS	W	<b>Social Theory for Engineers</b>	3.00	15	W 1:30-3:50PM					
				<i>Schoenberger, Erica</i> Engineers work in a social context. This course addresses a number of questions about that social context. How should we understand how societies come about, how they evolve, and why the rules of the game are what they are? What is the relationship between the individual and society, what does it mean to be 'modern,' are there different forms of rationality? How might all this impinge on what it means to be an engineer?								
EN.570.452	01	EN	W	<b>Experimental Methods in Environmental Engineering Chemistry</b>	4.00	12	M 1:30-5:20PM; F 1:30-2:45PM					
				<i>Stone, Alan T</i> An advanced laboratory covering principles of modern analytical techniques and their applications to problems in environmental sciences. Topics include electrochemistry, spectrometry, gas and liquid chromatography. The course is directed to graduate students and advanced undergraduates in engineering and natural sciences.							Students must have completed Lab Safety training prior to registering for this class.; Prerequisite: EN.570.443	
EN.570.452	02	EN	W	<b>Exper Meth Env Eng Chem</b>	4.00	12	W 1:30-5:20PM; F 1:30-2:45PM					

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## Geography &amp; Environmental Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.570.470	01	QS	W	<b>Applied Economics &amp; Finance</b> <i>Hanke, Steve H</i> This course focuses on company valuations, using the proprietary Hanke-Guttridge Discounted Free Cash Flow Model. Students use the model and primary data from financial statements filed with the Securities and Exchange Commission to calculate the value of publically-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. A heavy emphasis is placed on research and writing. Work products are expected to be of publishable quality.	3.00	12	F 1:30-4:30PM	Prerequisite: EN.570.443 or Instructor Permission			EN.660.203 AND ( EN.570.428 OR AS.360.528)	Y
EN.570.491	01	E		<b>Hazardous Waste Engineering and Management</b> <i>Alavi, Hedy V</i> This course addresses traditional and innovative technologies, concepts, and principles applied to the management of hazardous waste and site remediation to protect human health and the environment.	3.00	40	W 3:00-5:40PM					
EN.570.492	01			<b>M. Gordon Wolman Seminar</b> <i>Chen, Kai Loon</i> Undergraduates only with permission of instructor.	1.00	10	T 3:00-4:50PM; F 1:30-2:45PM					

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## Information Security Institute

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.600.424	01	E		<b>Network Security</b> <i>Nielson, Seth J</i> This course focuses on communication security in computer systems and networks. The course is intended to provide students with an introduction to the field of network security. The course covers network security services such as authentication and access control, integrity and confidentiality of data, firewalls and related technologies, Web security and privacy. Course work involves implementing various security techniques. A course project is required. [Systems] EN.600.120 (or equivalent) recommended. Recommend Course Background: 600.120, 600.226, 600.344, 600.444 or permission.	3.00	30	TTh 3:00-4:15PM	Recommend Course Background: 600.120, 600.226, 600.344, 600.444 or permission			600.226 and (600.344 or 600.444) or permission; 600.120 (or equivalent) recommended.	
EN.600.444	01	E		<b>Computer Networks</b> <i>Rubin, Aviel D</i> This course considers intersystem communications issues. Topics covered include layered network architectures; the OSI model; bandwidth, data rates, modems, multiplexing, error detection/correction; switching; queuing models, circuit switching, packet switching; performance analysis of protocols, local area networks; and congestion control. Recommended Course Background: EN.600.120 and EN.600.233. Students can only receive credit for EN.600.344 or EN.600.444, not both.	3.00	25	TTh 9:00-10:15AM	Recommended Prereq: 600.120 and 600.233, Students can only receive credit for 600.344 or 600.444,			Students can only receive credit for EN.600.344 or EN.600.444, not both.	
EN.600.451	01	E		<b>Introduction to Bitcoin and Other Cryptocurrencies</b> <i>Ateniese, Giuseppe</i>	3.00	30	MW 12:00-1:15PM					

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Information Security Institute

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				This course covers the basics of Bitcoin and the underlying technologies driving it. The course is intended for students interested in the cryptographic techniques devised to make digital currencies and payment systems secure. Topics include Bitcoin transactions, the blockchain, mining, and decentralized consensus. The course will include a brief introduction to public-key cryptography, digital signatures, hash functions, proof of work/space, multisignatures, and elliptic curve cryptography. The course concludes with an overview of the Bitcoin scripting language and Bitcoin 2.0 platforms. [Systems] Recommended Course Background: EN.600.344/444 (Computer Networks) and EN.550.171 (Discrete Math)							EN.600.226	
EN.600.463	01	EQ		<b>Algorithms I</b>	3.00	30	TTh 9:00-10:15AM					
				<i>Braverman, Vladimir</i> Graduate version of EN.600.363. Students may receive credit for EN.600.363 or EN.600.463, but not both. Recommended Course Background: EN.600.226 and EN.550.171 or instructor permission required.				Prereq: 600.226 and 550.171 or Perm. req'd. Students may receive credit for 600.363 or 600.463, but				

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## Information Security Institute

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.650.431	01	EN		<b>Ethical Hacking</b> <i>Watkins, Lanier</i> Cyber security affects every facet of industry and our government, and thus is now a threat to National Security. This course is designed to introduce students to the skills needed to defend computer network infrastructure by exposing them to the hands-on identification and exploitation of vulnerabilities in servers (i.e., Windows and Linux), wireless networks, websites, and cryptologic systems. These skills will be tested by having teams of students develop and participate in instructor lead capture-the-flag competitions. Also included are advanced topics such as shell coding, IDA Pro analysis, fuzzing, and writing or exploiting network-based applications or techniques such as web servers, spoofing, and denial of service.	3.00	25	Th 6:00-8:30PM					
EN.650.471	01	EQ		<b>Cryptography &amp; Coding</b> <i>Fishkind, Donniell</i> A first course in the mathematical theory of secure and reliable electronic communication. Cryptology is the study of secure communication: How can we ensure the privacy of messages? Coding theory studies how to make communication reliable: How can messages be sent over noisy lines? Topics include finite field arithmetic, error-detecting and error-correcting codes, data compressions, ciphers, one-time pads, the Enigma machine, one-way functions, discrete logarithm, primality testing, secret key exchange, public key cryptosystems, digital signatures, and key escrow. Students should have computing experience. Recommended Course Background: AS.110.201	4.00	15	MWF 1:30-2:20PM; Th 10:30-11:20AM				EN.550.171 or permission	

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## Institute for NanoBio Technology

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.670.497	01			<b>Animation in Nanotechnology &amp; Medicine</b> <i>Rietveld, Martin</i> This course involves the use of animation to visualize scientific processes in nanotechnology and medicine. Animation is becoming an increasingly important tool in both research and education, especially in fields such as nanobiotechnology that involve complex processes and occur at multiple length scales. Understanding of the subject matter is gained through interaction with faculty and graduate students in research groups in the Institute for NanoBioTechnology at Hopkins. The course follows the basic animation pipeline from concept to post production.	3.00	15	MTh 3:00-4:15PM	Permission of Instructor: Martin Rietveld. Email rietveld@jhu.edu				



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## Materials Science &amp; Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.510.107	01	EN		<b>Modern Alchemy</b>  <i>Spicer, James</i> Can you really turn lead into gold? Converting common substances into useful materials that play important roles in today's technologies is the goal of many modern scientists and engineers. In this course, we will survey selected topics related to modern materials, the processes that are used to make them as well as the inspiration that led to their development. Topics will include the saga of electronic paper, the sticky stuff of gecko feet and the stretchy truth of metal rubber.	3.00	100	TTh 10:30-11:45AM					
EN.510.107	02	EN		<b>Modern Alchemy</b>	3.00	100	TTh 1:30-2:45PM					
EN.510.201	01	EN		<b>Introductory Materials Science for Engineers</b>  <i>Ma, En</i> An introduction to the structure, properties, and processing of materials used in engineering applications. After beginning with the structure of materials on the atomic and microscopic scales, this course explores defects and their role in determining materials properties, the thermodynamics and kinetics of phase transformations, and ways in which structure and properties can be controlled through processing. Previously: Introduction to Engineering Materials.	3.00	30	MWF 10:00-10:50AM					
EN.510.202	01	EN		<b>Computation and Programming for Materials Scientists and Engineers</b>  <i>Ulmschneider, Martin</i>	3.00	35	MW 1:30-2:45PM					

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## Materials Science &amp; Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				This course will introduce students to the basics of programming in the MATLAB environment. Students will build skills in algorithmic problem solving by programming assignments regarding a range of biological and non-biological materials systems. Students will learn to write function definitions and deploy basic operations of selection and iteration as well as MATLAB specific vectorization methods and the construction of graphical user interfaces. Applications may include materials structure, phase equilibrium, propagating reactions, and other relevant scientific and engineering applications.					In Person Registration Only			
EN.510.313	01	EN		<b>Mechanical Properties of Materials</b>  <i>Weihs, Timothy P</i> Third of the Introduction to Materials Science series, this course is devoted to a study of the mechanical properties of materials. Lecture topics include elasticity, anelasticity, plasticity, and fracture. The concept of dislocations and their interaction with other lattice defects is introduced.	3.00	35	TTh 9:00-10:15AM				EN.510.311 AND EN.510.202 or another programming course, or permission of instructor.	
EN.510.314	01	EN		<b>Electronic Properties of Materials</b>  <i>Poehler, Theodore O</i> Fourth of the Introduction to Materials Science series, this course is devoted to a study of the electronic, optical and magnetic properties of materials. Lecture topics include electrical and thermal conductivity, thermoelectricity, transport phenomena, dielectric effects, piezoelectricity, and magnetic phenomena.	3.00	40	MWF 11:00-11:50AM				EN.510.311 AND EN.510.202 or another programming course, or permission of instructor.	
EN.510.315	01	EN		<b>Physical Chemistry of Materials II</b>  <i>Mueller, Timothy K</i>	3.00	48	MWF 10:00-10:50AM					

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## Materials Science &amp; Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				Fifth of the Introduction to Materials Science series, this course covers diffusion and phase transformations in materials. Topics include Fick's laws of diffusion, atomic theory of diffusion, diffusion in multi-component systems, solidification, diffusional and diffusionless transformations, and interfacial phenomena.							EN.510.311 AND EN.510.312 AND EN.510.202 or another programming course, or permission of instructor.	
EN.510.336	01	EN		<b>MSE Design Team I</b> <i>Mao, Hai-Quan; Searson, Peter C; Spicer, James; Wilson, Orla</i> This course is the second half of a two-semester course sequence for freshmen, sophomores, and juniors majoring or double majoring in materials science and engineering (MSE). This course provides a broad exposure to various aspects of planning and conducting independent research in a team setting (3 to 6 students on each team). In this course, MSE freshmen, sophomores, and juniors, working with a team leader and seniors on the team, apply their general knowledge in MSE to develop the solution to open-ended problems. Materials Science & Engineering Freshman, Sophomore & Juniors Only. Recommended Course Background: EN.510.101, EN.510.109, or equivalent courses. *The team will meet 150 minutes per week at a time to be designated by the instructor.	3.00	10	TBA		Freshmen Only; Sophomores Only; Juniors Only	Z Major Materials Sci & Eng 10	EN.510.335	
EN.510.407	01	EN		<b>Biomaterials II: Host response and biomaterials applications</b> <i>Mao, Hai-Quan</i> This course focuses on the interaction of biomaterials with the biological system and applications of biomaterials. Topics include host reactions to biomaterials and their evaluation, cell-biomaterials interaction, biomaterials for tissue engineering applications, biomaterials for controlled drug and gene delivery, biomaterials for cardiovascular applications, biomaterials for orthopedic applications, and biomaterials for artificial organs. Also listed as EN.510.607.	3.00	80	MWF 9:00-9:50AM					

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## Materials Science &amp; Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.510.412	01	EN		<b>Introduction to and Applicaitons of Scanning Probe Microscopy</b> <i>Mcguiggan, Patricia</i> Scanning Probe Microscopy has emerged as one of the premier techniques to characterize surfaces. This course will give an overview of the family of SPM techniques including scanning tunneling microscopy (STM), atomic force microscopy (AFM), scanning near field optical microscopy (SNOM) and Kelvin probe microscopy. In each of these applications, the theory of operation, measurement and imaging techniques, and experimental limitations will be discussed. Also listed as 510.632.	3.00	5	TTh 9:00-10:15AM					
EN.510.413	01	EN		<b>Statistical Mechanics of Materials</b> <i>Cammarata, Robert C</i> This course will present the basic principles of statistical mechanics and apply them to problems concerning the behavior of materials. Topics include: basic principles of statistical mechanics; time averages and ensembles; connection to macroscopic thermodynamics; fluctuations; classical and quantum particles statistics; lattice statistics; statistical thermodynamic models of gases, liquids, crystals, crystalline defects, linear chain polymers, and surfaces; phase transitions and critical phenomena; kinetic and transport phenomena; thermodynamics of irreversible processes. Recommended Course Background: EN.510.312 or undergraduate course in thermodynamics. Also listed as EN.510.613	3.00	15	MF 1:30-2:45PM					
EN.510.421	01	EN		<b>Nanoparticles</b> <i>Wilson, Orla</i>	3.00	30	MWF 10:00-10:50AM					

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## Materials Science &amp; Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				Nanoparticles - one-dimensional materials with diameters of nearly atomic dimension - are one of the most important classes of nanostructured materials because their unusual properties that often differ significantly from bulk materials. This course will explore the synthesis, structure and properties of nanoparticles. Applications of nanoparticles in medicine, optics, sensing, and catalysis will be discussed, with an emphasis will be on metal nanoparticles and semiconductor quantum dots.								
EN.510.422	01	EN		<b>Micro and Nano Structured Materials &amp; Devices</b> <i>Katz, Howard E</i> Almost every material's property changes with scale. We will examine ways to make micro- and nano-structured materials and discuss their mechanical, electrical, and chemical properties. Topics include the physics and chemistry of physical vapor deposition, thin film patterning, and microstructural characterization. Particular attention will be paid to current technologies including computer chips and memory, thin film sensors, diffusion barriers, protective coatings, and microelectromechanical (MEMS) devices.	3.00	75	TTh 10:30-11:45AM					
EN.510.429	01	EN	W	<b>Materials Science Laboratory II</b> <i>Wilson, Orla</i> This laboratory concentrates on the experimental investigation of electronic properties of materials using basic measurement techniques. Topics include thermal conductivity of metal alloys, electrical conductivity of metals/metal alloys and semiconductors, electronic behavior at infrared wavelengths, magnetic behavior of materials, carrier mobility in semiconductors and the Hall effect in metals and semiconductors. Lab Assignment is by Professor. Recommended Course Background: EN.510.311 or Permission Required.	3.00	17	Th 12:00-1:15PM; Th 1:30-3:50PM				Students must have completed Lab Safety training prior to registering for this class.	
EN.510.430	01	EN	W	<b>Biomaterials Lab</b> <i>Hristova, Kalina A</i>	3.00	10	M 1:30-4:30PM					





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## Materials Science &amp; Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				This course is the second half of a two-semester course sequence for senior students majoring or double majoring in MSE. This course provides a broad experience to various aspects of planning and conducting independent research in a team setting (3 to 6 students on each team). In this course, MSE seniors, working with a team leader and a group of freshmen, sophomores, and seniors, apply their knowledge in their track area to generate the solution to open-ended problems encountered in MSE. Materials Science & Engineering Junior & Seniors Only. Recommended Course Background: EN 510.101, EN 510.311, EN 510.312, EN 510.428, EN 510.429. Meets with EN.510.434, EN.510.439, EN.510.441 and EN.510.448.					Seniors Only	Z Major Materials Sci & Eng 6	EN.510.445	
EN.510.448	01	EN		<b>MSE Design Team Leader</b>	4.00	3	W 1:30-2:20PM; W 3:00-4:15PM; TBA					
				<i>Mao, Hai-Quan; Searson, Peter C; Spicer, James; Wilson, Orla</i>								
				This course is the second half of a two-semester course sequence for students majoring or double majoring in MSE. This course provides a leadership experience to various aspects of planning and conducting independent research in a team setting. In this course, MSE seniors assemble and lead a student team consisting of 3 to 6 students, apply their knowledge in their track area, and develop leadership skills to generate the solution to open-ended problems encountered in MSE. Materials Science & Engineering Seniors Only. Recommended Course Background: EN 510.101, EN 510.311, EN 510.312, EN. 510.428, EN 510.429. Meets with EN.510.434, EN.510.439, EN.510.441, and EN.510.446					Seniors Only	Z Major Materials Sci & Eng 3	EN.510.447	



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## Mechanical Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.520.353	01	E		<b>Control Systems</b> <i>Tarraf, Danielle</i> Modeling, analysis, and an introduction to design for feedback control systems. Topics include state equation and transfer function representations, stability, performance measures, root locus methods, and frequency response methods (Nyquist, Bode).	3.00	35	TTh 1:30-2:45PM					
EN.530.102	01	E		<b>Freshman Experiences in Mechanical Engineering</b> <i>Belkoff, Stephen M</i> An overview of the field of mechanical engineering along with topics that will be important throughout the mechanical engineering program. This is the second 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	50	MW 3:00-3:50PM				EN.530.101	
EN.530.104	01	EN		<b>Introduction to Mechanics II</b> <i>Thomas, John A</i> This is the second 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 AS.171.101, designed specifically for Mechanical Engineering and Engineering Mechanics students taking EN.530.102 concurrently.	2.00	60	MW 1:30-2:20PM				EN.530.103	
EN.530.106	01	E		<b>Mechanical Engineering Freshman Laboratory II</b> <i>Belkoff, Stephen M</i>	1.00	15	Th 12:00-2:50PM					

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## Mechanical Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
				Hands-on laboratory complementing EN.530.102 and EN.530.104, 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.					Freshmen Only		Students must have completed Lab Safety training prior to registering for this class.; EN.530.105	
EN.530.106	02	E		<b>Mechanical Engineering Freshman Laboratory II</b>	1.00	15	Th 3:00-5:50PM					
EN.530.106	03	E		<b>Mechanical Engineering Freshman Laboratory II</b>	1.00	15	F 9:00-11:50AM					
EN.530.106	04	E		<b>Mechanical Engineering Freshman Laboratory II</b>	1.00	15	F 12:00-2:50PM					
EN.530.106	05	E		<b>Mechanical Engineering Freshman Laboratory II</b>	1.00	15	F 3:00-5:50PM					

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## Mechanical Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.530.150	01	E		<b>Engineering Design Graphics, Visualization, and Fundamentals of CAD</b> <i>Marra, Steven P; Phinney, Charles L</i> This course will serve as an introduction to the foundational representational techniques for design, and help students to develop design literacy and three-dimensional visualization skills. Students will explore the range of tools utilized in design practice, beginning with the skills of hand-drawing, exploring ways to articulate visual ideas, and concluding with the standards of presentation and CAD tools typical in professional practice. This class will enable students to better develop, express and communicate their ideas as engineers.	3.00	19	TTh 9:00-10:15AM					
EN.530.202	01	E		<b>Mechanical Engineering Dynamics</b> <i>Kraemer, David Robert Burke</i> Basic principles of classical mechanics applied to the motion of particles, system of particles and rigid bodies. Kinematics, analytical description of motion; rectilinear and curvilinear motions of particles; rigid body motion. Kinetics: force, mass, and acceleration; energy and momentum principles. Introduction to vibration. Includes laboratory experience.	4.00	16	TTh 10:30-11:45AM; W 2:00-3:50PM				( EN.530.201 or EN.560.201 ) AND ( AS.171.101 or AS.171.107 or ( EN.530.103 AND EN.530.104 ) ) AND AS.110.109; Students must have completed Lab Safety training prior to registering for this class.	
EN.530.202	02	E		<b>Mechanical Engineering Dynamics</b>	4.00	16	TTh 10:30-11:45AM; W 4:00-5:50PM					
EN.530.202	03	E		<b>Mechanical Engineering Dynamics</b>	4.00	16	TTh 10:30-11:45AM; Th 4:00-5:50PM					

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## Mechanical Engineering

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
EN.530.202	04	E		<b>Mechanical Engineering Dynamics</b>	4.00	16	TTh 10:30-11:45AM; F 2:00-3:50PM					
EN.530.202	05	E		<b>Mechanical Engineering Dynamics</b>	4.00	16	TTh 10:30-11:45AM; F 4:00-5:50PM					
EN.530.215	01	E		<b>Mechanics-Based Design</b> <i>Ramesh, Kalia T</i> Stresses and strains in three dimensions, transformations. Combined loading of components, failure theories. Buckling of columns. Stress concentrations. Introduction to the finite element method. Design of fasteners, springs, gears, bearings, and other components.	3.00	80	TTh 1:30-2:45PM				EN.530.201 OR EN.560.201	
EN.530.216	01	E		<b>Mechanics Based Design Laboratory</b> <i>Marra, Steven P</i> This is the laboratory that supports EN.530.215 Mechanics Based Design.	1.00	12	M 3:30-5:20PM; T 6:00-6:50PM	Problem Solving sessions will be set during semester.			Students must have completed Lab Safety training prior to registering for this class.	
EN.530.216	02	E		<b>Mechanics Based Design Laboratory</b>	1.00	12	M 6:00-7:50PM; T 6:00-6:50PM					
EN.530.216	03	E		<b>Mechanics Based Design Laboratory</b>	1.00	12	T 3:30-5:20PM; T 6:00-6:50PM					
EN.530.216	04	E		<b>Mechanics Based Design Laboratory</b>	1.00	12	W 3:30-5:20PM; T 6:00-6:50PM					

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EN.530.216	05	E		<b>Mechanics Based Design Laboratory</b>	1.00	12	W 6:00-7:50PM; T 6:00-6:50PM					
EN.530.216	06	E		<b>Mechanics Based Design Laboratory</b>	1.00	12	Th 3:30-5:20PM; T 6:00-6:50PM					
EN.530.216	07	E		<b>Mechanics Based Design Laboratory</b>	1.00	12	T 6:00-6:50PM; Th 6:00-7:50PM					
EN.530.216	08	E		<b>Mechanics Based Design Laboratory</b>	1.00	12	T 6:00-6:50PM; F 10:00-11:50AM					
EN.530.241	01	E		<b>Electronics &amp; Instrumentation</b>  <i>Kraemer, David Robert Burke</i> Introduction to basic analog electronics and instrumentation with emphasis on basic electronic devices and techniques relevant to mechanical engineering. Topics include basic circuit analysis, laboratory instruments, discrete components, transistors, filters, op-amps, amplifiers, differential amplifiers, power amplification, power regulators, AC and DC power conversion, system design considerations (noise, precision, accuracy, power, efficiency), and applications to engineering instrumentation.	4.00	22	MWF 1:30- 2:20PM; TBA				AS.171.102 or AS.171.108; Students must have completed Lab Safety training prior to registering for this class.; Co or Pre- requisites: EN.550.291 OR ( AS.110.201 AND AS.110.302 ) OR ( AS.110.212 AND AS.110.302 )	
EN.530.241	02	E		<b>Electronics &amp; Instrumentation</b>	4.00	22	MWF 1:30- 2:20PM; TBA					

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EN.530.241	03	E		<b>Electronics &amp; Instrumentation</b>	4.00	22	MWF 1:30-2:20PM; TBA					
EN.530.241	04	E		<b>Electronics &amp; Instrumentation</b>	4.00	22	MWF 1:30-2:20PM; TBA					
EN.530.328	01	E		<b>Fluid Mechanics II</b>  <i>Meneveau, Charles V</i> Linear and angular momentum in integral form, applications to turbomachines. The Navier-Stokes equations. Inviscid flow. Laminar viscous flow. Boundary layers. Turbulence. Compressible flows. Projects using computational tools, design of pipe network.	3.00	30	TTh 10:30-11:45AM					
EN.530.334	01	E		<b>Heat Transfer</b>  <i>Herman, Cila</i> Steady and unsteady conduction in one, two, and three dimensions. Elementary computational modeling of conduction heat transfer. External and internal forced convection. Performance and design of heat exchangers. Boiling and condensation. Black-body and gray-body radiation, Stefan-Boltzmann law view factors and some applications.	3.00	80	MWF 10:00-10:50AM	Problem Solving Session: Friday 12pm-12:50pm Room: TBA			EN.530.231AND EN.530.327	
EN.530.335	01	E		<b>Heat Transfer Laboratory</b>  <i>Marra, Steven P</i> This is the laboratory that supports EN.530.334 Heat Transfer.	1.00	80	TBA; W 6:00-6:50PM	Problem Solving Session: Tuesday 3pm-3:50pm			Students must have completed Lab Safety training prior to registering for this class.	
EN.530.343	01	E		<b>Design and Analysis of Dynamical Systems</b>  <i>Marra, Steven P</i>	4.00	18	MWF 9:00-9:50AM; M 6:00-8:50PM					

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				Modeling and analysis of damped and undamped, forced and free vibrations in single and multiple degree-of-freedom linear dynamical systems. Introduction to stability and control of linear dynamical systems.							Prereq: (110.108 and 110.109 and (110.202 or 110.211) and ((550.291) or (110.201 and 110.302) or (110.201 and 110.306)), and C- or better or concurrent enrollment in 530.202 or 560.202. MechE Majors must also have taken 530.241; Students must have completed Lab Safety training prior to registering for this class.	
EN.530.343	02	E		<b>Design and Analysis of Dynamical Systems</b>	4.00	18	MWF 9:00-9:50AM; T 3:00-5:50PM					
EN.530.343	03	E		<b>Design and Analysis of Dynamical Systems</b>	4.00	18	MWF 9:00-9:50AM; Th 2:30-5:20PM					
EN.530.343	04	E		<b>Design and Analysis of Dynamical Systems</b>	4.00	18	MWF 9:00-9:50AM; F 1:30-4:20PM					
EN.530.354	01	E		<b>Manufacturing Engineering</b>  <i>Ronzhes, Yury</i>	3.00	40	MWF 11:00-11:50AM					

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				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. Special Notes: Labs and field trips will be scheduled with class separately. Mechanical Engineering and Engineering Mechanics Sophomores and Juniors only.					Sophomores Only; Juniors Only		Students must have completed Lab Safety training prior to registering for this class.	



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EN.530.381	01	E		<b>Engineering Design Process</b>  <i>Scott, Nathan William</i> This course is to get you into the world of Senior Design, which means into our spaces, into the machine shop and into the mind set of doing design-build-test work. You will be assigned to be an assistant to one of our Senior Design teams. In industrial design practice this is absolutely typical and project teams grow or shrink as the need demands. It is also a good way for younger engineers to learn the ropes. You will have your own portfolio of design work to do, but it will be in the context of a large project where there has already been a lot of progress. You will have to fit in with that larger context – as usual for engineers – while also making your own contributions. There will be a lecture series which will introduce some key ideas and tools of the engineering designer. Rapid sketching of design ideas; more careful hand drawings that are like fast technical drawings; how to generate ideas and then develop the ideas into workable, feasible, affordable, desirable solutions; how to identify prototypes that will show the way forward, and then actually make them; how to work with a team and negotiate about time, deliverables and design detail; how to find parts from commercial suppliers, size them, order them and get them delivered; how to document design work in a fast and effective way. Some of the lectures will be in the form of case studies of excellent design work, and will be student-driven i.e. you will prepare a case study to present to the class which we then discuss.	3.00	60	MWF 1:30-2:20PM				Students must have completed Lab Safety training prior to registering for this class.	
EN.530.404	01	E	W	<b>Engineering Design Project II</b> <i>Scott, Nathan William</i>	4.00	65	TBA					

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				The Senior Design Project, a unique two-semester course, is the capstone of Johns Hopkins's Mechanical Engineering Program. In the class, students working in small teams tackle specific design challenges presented by industry, government, and nonprofit organizations. The sponsors provide each team with a budget, access to world-class resources, and technical contacts. Ultimately, each team conceptualizes a novel solution to the sponsor's problem and then designs, constructs, and tests a real-world prototype before presenting the finished product and specifications to the sponsor. The course requires students to draw upon the four years of knowledge and experience they've gained in their engineering studies and put it to practical use. Throughout the year, they produce progress reports as they design, build, and test the device they are developing. Combining engineering theory, budget and time management, and interactions with real clients, the senior design project is critical to students' preparation for the transition from school to the workplace.				Teams will meet separately and regularly with the instructor, sponsors, and advisors, and full class	Seniors Only		EN.530.403		
EN.530.410	01	EN		<b>Biomechanics of the Cell</b> <i>Sun, Sean X</i> Mechanical aspects of the cell are introduced using the concepts in continuum mechanics. Discussion of the role of proteins, membranes and cytoskeleton in cellular function and how to describe them using simple mathematical models.	3.00	50	TTh 4:30-5:45PM						
EN.530.421	01	E		<b>Mechatronics</b>  <i>Chirikjian, Gregory Scott; Rizk, Charbel G</i>	3.00	15	Th 1:00-3:50PM; TTh 10:00-10:50AM						

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				Students from various engineering disciplines are divided into groups of two to three students. These groups each develop a microprocessor-controlled electromechanical device, such as a mobile robot. The devices compete against each other in a final design competition. Topics for competition vary from year to year. Class instruction includes fundamentals of mechanism kinematics, creativity in the design process, an overview of motors and sensors, and interfacing and programming microprocessors.							EN.530.420 or permission of instructor; Students must have completed Lab Safety training prior to registering for this class.	
EN.530.421	02	E		<b>Mechatronics</b>	3.00	15	F 10:00AM-12:50PM; Th 10:00-10:50AM					
				<i>Rizk, Charbel G</i>								
EN.530.421	03	E		<b>Mechatronics</b>	3.00	15	F 1:00-3:50PM; Th 10:00-10:50AM					

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EN.530.432	01	E		<b>Jet &amp; Rocket Propulsion</b>  <i>Katz, Joseph</i> The course covers associated aircraft and spacecraft and power generation. The first part reviews the relevant thermodynamics and fluid mechanics, including isentropic compressible flow, Rayleigh and Fanno lines, shock and expansion waves. Subsequently, the performance of various forms of aviation gas turbines, including turbo-jet, turbo-fan, turbo-prop and ram-jet engines are discussed, followed by component analyses, including inlet nozzles, compressors, combustion chambers, turbines and afterburners. Axial and centrifugal turbomachines are discussed on detail, including applications in aviation, power generation and liquid transport. The section on foundations of combustion covers fuels, thermodynamics of combustion, and energy balance. The last part focuses on rockets, including classification, required power for space flight, chemical rocket components, and combustion involving liquid and solid fuels.	3.00	40	TTh 12:00-1:15PM					
EN.530.441	01	E		<b>Introduction to Biophotonics</b>  <i>Barman, Ishan</i> The primary aim for this course is to explore the unique and diverse properties of light that makes it suited for diagnosis, imaging, manipulation and control of biological structure and function from the nanoscale to the tissue level. The course will focus on different optical spectroscopic and microscopic modalities that provide biochemical and morphological information, while introducing new ideas on analysis and interpretation of the acquired data. We will also discuss manipulation methods, including optical tweezers and laser scissors, and low-level light therapy. In all of these areas, the idea is to develop a basic understanding of the subject and to use it for finding solutions to real-world problems in healthcare. Discussions and open exchanges of ideas will be strongly emphasized.	3.00	19	TTh 3:00-4:15PM					
EN.530.464	01	E		<b>Energy Systems Analysis</b>	3.00	19	TTh 1:30-2:45PM					

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				<p><i>Gayme, Dennice F</i></p> <p>This course discusses the grid integration of renewable energy systems. The main emphasis is on grid level effects of renewable energy, particularly wind power systems. It begins with an introduction to basic power system concepts along with power flow analysis (and optimization). Then, important concepts for wind power systems are discussed. Following that, integration issues for wind power at the transmission level and solar cell integration at the distribution level are introduced. The last part of the course will focus on current research in these areas. Students will choose a system to research and present a project or literature review at the end of the term. Prior knowledge of optimization is helpful, but not required.</p>								
EN.530.476	01	E		<p><b>Locomotion in Mechanical and Biological Systems</b></p> <p><i>Li, Chen</i></p> <p>Undergraduate course on the mechanics of locomotion in animals and machines, and neural control of locomotion. Terrestrial, aquatic, and aerial locomotion modes are considered. Topics include dynamical systems theory, linear and nonlinear differential equations, Poincaré and Floquet theory, and system identification techniques. Recommended Course Background: graduate course in robotics, controls, or dynamical systems theory, and a basic understanding of probability theory; or permission of instructor.</p>	3.00	10	MW 1:30-2:45PM					

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## Professional Communication

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EN.661.110	01		W	<b>Professional Writing and Communication</b>  <i>Thompson, Jay R</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. Not open to students who have taken EN.661.110 as Technical Communication or Professional Communication for Science, Business and Industry or EN.661.120 Business Communication. No audits.	3.00	19	TTh 9:00-10:15AM				Not open to students who have taken EN.661.110 as Technical Communication or Business and Industry or EN.661.120 Business Communication.	
EN.661.110	02		W	<b>Professional Writing and Communication</b>	3.00	19	TTh 10:30-11:45AM					
EN.661.110	04		W	<b>Professional Writing and Communication</b>	3.00	19	TTh 1:30-2:45PM					
EN.661.110	05		W	<b>Professional Writing and Communication</b>  <i>Wilkins, Caroline A</i>	3.00	19	MW 12:00-1:15PM					
EN.661.110	06		W	<b>Professional Writing and Communication</b>	3.00	19	MW 1:30-2:45PM					
EN.661.110	07		W	<b>Professional Writing and Communication</b>  <i>Pepitone, Lauren</i>	3.00	19	TTh 12:00-1:15PM					
EN.661.111	01		W	<b>Professional Writing and Communication for International Students</b>  <i>Davis, Laura G</i>	3.00	19	TTh 4:30-5:45PM					

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				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 EN.661.110 as Technical Communication or Professional Communication for Science, Business, and Industry or EN.661.120 Business Communication. No audits.								Not open to students who have taken EN.661.110 as Technical Communication or Professional Communication for Science, Business, and Industry or EN.661.120 Business Communication.	
EN.661.250	01		W	<b>Oral Presentations</b> <i>Dungey, Kevin R</i>	3.00	13	M 3:00-5:45PM					Not open to students who have taken EN.661.150.	
				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. Not open to students that have taken EN.661.150.									
EN.661.250	02		W	<b>Oral Presentations</b>	3.00	13	M 6:15-9:00PM						
EN.661.250	03		W	<b>Oral Presentations</b> <i>Sheff, Pamela</i>	3.00	13	W 1:30-4:15PM						
EN.661.250	04		W	<b>Oral Presentations</b>	3.00	13	T 4:30-7:15PM						

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				<i>Heiserman, Jason</i>								
EN.661.250	05		W	<b>Oral Presentations</b> <i>O'Donnell, Charlotte Alyssa</i>	3.00	13	W 5:00-7:45PM					
EN.661.250	06		W	<b>Oral Presentations</b> <i>Kulanko, Andrew</i>	3.00	13	Th 1:30-4:15PM					
EN.661.250	07		W	<b>Oral Presentations</b>	3.00	13	Th 5:00-7:45PM					
EN.661.250	08		W	<b>Oral Presentations</b> <i>Reiser, Julie</i>	3.00	13	T 1:30-4:15PM					
EN.661.251	01		W	<b>Oral Presentations for International Students</b> <i>Davis, Laura G</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. No audits. Not open to students that have taken EN.661.151	3.00	13	W 4:30-7:15PM				Not open to students that have taken EN.661.151.	
EN.661.306	01		W	<b>Freelance Travel Writing: Destination Mid-Atlantic</b> <i>Reiser, Julie</i>	3.00	19	Th 1:30-4:00PM					



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In this course, students will learn the fundamentals of magazine and travel writing as well as best practices for working as a freelance writer. After gaining familiarity with the genre by reading several "classics" of travel writing and a selection of exemplary magazine articles, students will learn how to brainstorm ideas, plan research, interview skillfully, take useable photos with smartphones, polish pitches to editors, and write/revise/submit work for publication. Students will also have the opportunity to meet with important executives from travel magazines and publishing houses. We will use Washington, DC, and Baltimore as the basis for most of our work, but the course might also include day trips to Philadelphia and New York. At the end of the course, students will create an ePortfolio to showcase their articles, profiles, reviews, trade placements, blog entries, and pitches/queries to potential editors.  
 Recommended: one prior course in writing but may be waived with instructor's permission.

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EN.661.315	01		W	<b>Culture of the Engineering Profession</b>  <i>Rice, Eric</i> 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, the impacts of engineering solutions on society, the 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. WSE sophomores, juniors and seniors or by instructor approval.	3.00	24	TTh 12:00-1:15PM		Juniors Only; Seniors Only			
EN.661.315	02		W	<b>Culture of the Engineering Profession</b>  <i>Sheff, Pamela</i>	3.00	24	TTh 12:00-1:15PM					
EN.661.315	03		W	<b>Culture of the Engineering Profession</b>  <i>Graham, Robert M.</i>	3.00	24	TTh 12:00-1:15PM					
EN.661.315	04		W	<b>Culture of the Engineering Profession</b>  <i>Staff</i>	3.00	24	TTh 12:00-1:15PM					
EN.661.317	01	S	W	<b>Culture of the Medical Profession</b>  <i>Staff</i>	3.00	24	TTh 12:00-1:15PM					

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				<p>This course builds understanding of the culture of medicine as well as the ways in which different strata within society have access to and tend to make decisions about health and health related services while preparing students to communicate effectively with the various audiences with whom medical professionals interact. Working from a base of contemporary science writing (monographs, non-fiction, popular literature and fiction), students engage in discussion, argument, case study and project work to investigate topics such as the medical culture, the ways medicine is viewed by different segments of society, issues associated with access to health care, ethical dilemmas and guidelines for medical decisions, the impacts of medical and engineering solutions on society, decision making within client/patient groups, social and cultural differences that effect behavioral change, and the ways medical 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 through a series of short papers and presentations associated with analysis of the writings and cases. For sophomores, juniors, and seniors or by permission of instructor. No audits.</p>								
EN.661.370	01			<p><b>Visual Rhetoric</b> <i>O'Donnell, Charlotte Alyssa</i></p> <p>This course introduces students to basic concepts in visual communication. Students use principles of design thinking to produce projects that are both conceptually and visually compelling. Along the way, they learn design tools and techniques that help them refine their schemes. They also develop their vocabularies in visual communication so that they can better discuss their own work. Topics include: visual perception, composition/form, color theory, typography, photography, text, layers, grids and other systems of visual information architecture.</p>	3.00	15	T 1:30-4:15PM					
EN.661.390	01	W		<p><b>Catalyst: A Student-Run Magazine</b> <i>O'Donnell, Charlotte Alyssa</i></p>	3.00	19	M 1:30-4:15PM					

Spring 2016

Professional Communication

<u>Crse</u>	<u>Sec</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>CR</u>	<u>Limit</u>	<u>Day/Time</u>	<u>Web Notes</u>	<u>Restricted</u>	<u>Seats Breakdown</u>	<u>Pre Reqs</u>	<u>Aprv</u>
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Catalyst is a student-run magazine that focuses on research, technology, entrepreneurship and design. Students enrolled in this course will learn the fundamental principles of journalism through producing content for the online magazine. The class will cover basic journalistic writing and interviewing techniques. Students will get a primer on media law, newsroom ethics and procedure. As their skills progress, they will learn to pitch, write and edit a variety of stories types – from basic news stories, to profiles, features and reviews. All students will publish at least one piece of writing in the magazine at the end of the semester.