

THE JOHNS HOPKINS UNIVERSITY

2012-2013

FALL TERM
UNDERGRADUATE

SCHEDULE OF COURSES

as of March 23, 2012

ARTS AND SCIENCES

AND

ENGINEERING

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Fall 2012

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Anthropology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.061.391	01	H	W	Love and Film <i>Ward, Meredith C</i> This course discusses understandings of "love" from Plato's Symposium to the present and explores the way that film has dealt with the concept. Interdisciplinary readings are paired with weekly screenings.	3.00	15	Th 1:30-3:50PM
AS.070.103	01	HS	W	Africa & The Museum <i>Guyer, Jane</i> An introduction to Africa, artistic creativity, collection and exhibition: as African history, as anthropology of art and objects, and as public controversy in our national institutions. Works with the Baltimore Museum of Art. Cross-listed with Africana Studies and Programs in Museums and Society.	3.00	20	T 1:30-3:50PM
AS.070.113	01	HS		Freshman Seminar <i>Haeri, Niloofar</i> Students will be introduced to anthropology through ethnographic films and selected readings in anthropology.	2.00	35	M 1:30-3:30PM
AS.070.285	01	HS		Understanding Aid <i>Cervone, Emma</i> This course analyzes theories of development that have been guiding international cooperation in developing countries since the late 1940s. Case studies focus on Latin America, the Caribbean, India, and Africa. Cross-listed with PLAS	3.00	35	TTh 9:00-10:15AM
AS.070.319	01	HS	W	Logic of Anthropological Inquiry <i>Guyer, Jane</i> Anthropology combines theory and methods from the sciences and the humanities. We take a close look at those logics, as shown in ethnography as a mode of inquiry and as a genre of writing. This will count as a required course for Anthropology majors but open to all undergraduates.	3.00	30	MW 3:00-4:15PM
AS.070.371	01	HS		Forms of Critique in Islam <i>Bush, Joseph Andrew</i> Dean's Teaching Fellowship Course: This course examines concepts and practices of critique brought to bear in (and upon) Muslim societies. Readings classic ethnographic monographs along with primary texts of Muslim critics, we focus on forms of reasoning, ethical practices and aesthetic expressions of political critique.	3.00	25	Th 4:00-6:20PM

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AS.070.385	01	HS	W	From Sexual Nature to Sexual Politics <i>Goodfellow, Aaron</i> This course traces anthropological concern with questions of sexuality. Students will explore anthropological notions of primitive promiscuity, cultural configurations of the correspondence between sex, procreation, and birth, and ideas about sexual rites of passage. The course will end with a discussion of sexual politics in Euro-America and public concern over HIV/AIDS. The course draws on the work of Freud, Malinowski, Meade, Herdt, Povinelli, Rubin, Bersani and Halperin. Cross-listed with WGS	3.00	25	TTh 10:30-11:45AM
AS.130.110	01	HS	W	Intro To Archaeology <i>McCarter, Susan</i> An introduction to archaeology and to archaeological method and theory, exploring how archaeologists excavate, analyze, and interpret ancient remains in order to reconstruct how ancient societies functioned. Specific examples from a variety of archaeological projects in different parts of the world will be used to illustrate techniques and principles discussed. Cross-listed with Anthropology	3.00	80	TTh 1:30-3:00PM
AS.130.177	01	HS		World Prehistory <i>Harrower, Michael James</i> An introduction to the archaeology of pre- and protohistoric cultures in key regions of the world, from the Neolithic revolution to the rise of complex societies. Discussions will focus on how they interacted with their neighbors, how this interaction would have played a part in their development, and the different approaches archaeologists use to understand their interconnections. Regions to be examined include the Near East, the Aegean, East Africa, East Asia, the Andes, and Central America. Cross-listed with Anthropology	3.00	100	TTh 9:00-10:30AM
AS.211.394	01	H	W	Brazilian Cult & Civ <i>Bensabat Ott, Mary M</i> This course surveys the culture and civilization of Brazil emphasizing influences of African, Asian, European, and indigenous cultures over four centuries. Using a multimedia approach, it examines art, music, popular culture, history, theater, literature, and cinema. Course taught in English, but ONE extra credit will be given to students who wish to do the course work in Portuguese. The sections will be taught simultaneously. Section 01 – work done in English Section 02 – work done in Portuguese; Permission Required for sec. 02 only	3.00		M 2:00-4:30PM
AS.211.394	02	H	W	Brazilian Cult & Civ	3.50		M 2:00-4:30PM
AS.361.130	01	HS	W	Introduction to Latin American Studies <i>Ramsdell, Lea A</i>	3.00	30	TTh 10:30AM-11:15PM

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				Within the background of a chronological frame that starts with early Amer-Indian civilizations and moves on to issues in contemporary culture and politics, the course introduces students to an interdisciplinary understanding of Latin American History and Culture. The course draws from historical geography, anthropology, history, politics and art, film and literature. Cross-list with GRLL, Anthropology, Humanities Center, and History.			
AS.389.201	01	HS		Introduction to the Museum: Past and Present <i>Rodini, Elizabeth</i> This course surveys museums, from their origins to their most contemporary forms, in the context of broader historical, intellectual, and cultural trends. Anthropology, art, history, and science museums are considered. Cross-listed with Anthropology, History, History of Art.	3.00	25	TTh 1:30-2:45PM
AS.389.385	01	HS		Global Perspectives on the Museum <i>Rodini, Elizabeth</i> Course examines practices of collecting, display and preservation beyond the western museum tradition, focusing on how these practices reflect and construct political, historical, ethnic and nationalist narratives. Counts towards the international studies major. Cross-listed with Anthropology	3.00	20	M 1:30-3:50PM

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

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

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				<i>Ehrenfeld, Howard</i> Working in the studio and in various locations, students will learn the fundamentals of lighting interiors and strategies for working in almost any environment. Field trips will include the National Aquarium, Evergreen Museum & Library, a Howard County horse farm, a Tiffany-designed church and a Hampden photo studio. Students will also concentrate on the fine art of printing in our new digital lab. They will develop a final portfolio of 10 photographs which express a personal vision about a location of their choice. A basic knowledge of digital photography is helpful, but not required.			
AS.371.303	01	H		Documentary Photography <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.	3.00	9	F 2:00-4:50PM
AS.389.371	01	H		The Artist in the Museum: Making Books <i>Berger, Phyllis A</i> Hopkins curatorial staff and photography instructor introduce the concept of books as art. Students create artist's books inspired by campus collections for inclusion in an Evergreen exhibition. M&S practicum course. Cross-listed with Homewood Art Workshops.	3.00	12	M 2:00-5:00PM

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Behavioral Biology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.020.153	01	N		General Biology Lab I <i>Pearlman, Rebecca Shari</i> Student must have enrolled in 020.151 either this term or in past terms. Students who have credit for AP Biology but take General Biology Lab I will lose four credits of their overall credit for AP Biology. This course reinforces the topics covered in 020.151. Laboratory exercises explore subjects ranging from forest ecology to molecular biology to animal behavior. Students participate in a semester-long project, identifying bacteria using DNA sequencing. Cross-listed with Behavioral Biology	1.00	44	M 1:30-4:20PM; Th 12:00-12:50PM
AS.020.153	02	N		General Biology Lab I	1.00	74	T 1:30-4:20PM; Th 12:00-12:50PM
AS.020.153	03	N		General Biology Lab I	1.00	44	W 1:30-4:20PM; Th 12:00-12:50PM
AS.020.153	04	N		General Biology Lab I	1.00	74	Th 1:30-4:20PM; Th 12:00-12:50PM
AS.020.153	05	N		General Biology Lab I	1.00	44	Th 12:00-12:50PM; F 1:30-4:20PM
AS.200.141	01	NS		Foundations of Brain, Behavior and Cognition <i>Gorman, Linda K</i> A survey of neuropsychology relating the organization of behavior to the integrative action of the nervous system. Cross-listed with Behavioral Biology and Neuroscience	3.00	250	TTh 9:00-10:15AM
AS.200.328	01	S	W	Thry-Mthds/Clinical Psyc <i>Edwin, David H</i> A critical examination of the methods of observation, description, reasoning, inference, measurement and intervention that underlie the clinical practice of psychology and psychiatry. Cross listed with Behavioral Biology. Prereq: 200.212; Junior and Senior Psychology, Behavioral Biology and Cognitive Science majors only OR instructor approval.	3.00	25	M 6:00-8:20PM
AS.200.344	01	NS		Behavioral Endocrinology <i>Ball, Gregory Francis</i> Prereq:(AS.200.141 OR AS.080.305) OR (AS.020.151 & AS.020.152) OR (AS.020.305 & AS.020.306) or Perm. Req'd. - An examination of the effects of hormones on behavior in non-human and human animals. Topics will include the effects of hormones on sexual differentiation, reproductive behavior, parental behavior, homeostasis and biological rhythms, regulation of body weight, learning and memory. Cross-listed with Behavioral Biology and Neuroscience	3.00	70	TTh 10:30-11:45AM
AS.290.101	01	NS		Human Origins <i>Holland, Peter C</i> This course examines the origins of human structure, function and behavior from an evolutionary perspective. It includes study of the evolution, behavior and behavioral ecology of nonhuman primates, hominid evolution (including the paleontological and archaeological records), and the origins of human cognition, social behavior and culture. Cross-listed with Psychological and Brain Sciences	3.00	100	TTh 3:00-4:15PM
AS.290.301	01	N		Stress and the Brain	3.00	19	Th 2:00-5:00PM

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Behavioral Biology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Madison, Farrah</i> Prereqs: 020.306 or 050.203 or 200.141 or 080.305 and 080.306. The purpose of this course is to explore the phenomenon of stress by investigating the neural, endocrine and molecular mechanisms involved. By reviewing both animal and human research, this course will consider disorders of the stress control system and the adverse impact of stress on human physical and mental health. Topics in this class will include, but are not limited to I) disorders such as PTSD, anxiety, major depression; II) interactions between stress and neurodegenerative disorders; III) stress-immune-inflammatory interactions; IV) the role of stress in obesity, hypertension, and other metabolic syndromes; V) stress effects on reproduction. Students will finish this course with a greater understanding for the fundamental neuroendocrine responses to stress and its consequent and/or associated adverse effects on human health.			
AS.290.420	01	S		Human Sexual Orientation <i>Kraft, Chris S</i> Limited to Juniors and Seniors with PBS, Neuroscience, Public Health, Behavioral Biology, and Biology majors, or Juniors and Seniors with PBS or Women's Studies minors. This course will examine the historical and current theories of sexual orientation and sexual variation development by examining the biological, psychological and social contributing factors that influence the development of sexual orientations and variations along with treatment and modification of problematic sexual behaviors.	3.00	25	T 3:00-5:30PM
AS.290.490	01	S		Sr Sem: Behavioral Bio <i>Holland, Peter C</i> 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
AS.290.490	02	S		Sr Sem: Behavioral Bio <i>Ball, Gregory Francis</i>	1.00	12	TBA

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Biology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.020.104	01	N		Fresh Sem: From Genes to DNA and Back <i>Moudrianakis, E N</i> Freshmen Only. Students must obtain permission from Dr. Moudrianakis to register. A course consisting of introductory lectures followed by student presentations in the form of seminars. The issues analyzed will be: How did we arrive at the concept of the "gene"? Early experiments that gave substance to this concept. How did we arrive at the "one gene, one enzyme" dogma? What is the chemical nature of the gene? Is DNA enough for regulated gene expression? Is it "all in our genes"? What is genetic plasticity and epigenetics? What about genomics and proteomics?	1.50	25	W 3:00-4:20PM
AS.020.106	01	N		Fresh Sem: Tuberculosis <i>Horner, Robert D</i> Freshmen only Limit 12 Mycobacterium tuberculosis is an extremely successful intracellular bacterial pathogen able to manipulate phagocytic cells and its own metabolism to survive within a host. The molecular mechanisms of this survival and resistance to antibiotics will be studied.	1.00	12	T 3:00-3:50PM
AS.020.111	01	N		Freshmen Seminar: The "Nobels" in Medicine and Chemistry <i>Brand, Ludwig</i> Key events in our understanding of the life sciences will be traced with the aid of Nobel awards.	2.00	28	W 2:00-3:40PM
AS.020.135	01	N		Project Lab: Phage Hunting <i>Fisher, Emily J</i> Freshmen only This is an introductory course open to all freshman regardless of intended major. No science background is required. This is the first semester of a year-long research-based project lab course in which students will participate in a nation-wide program in collaboration with undergraduates at other colleges. Students will isolate and characterize novel bacteriophages (viruses that infect bacteria) from the environment using modern molecular biological techniques. The course includes two lab meetings per week. Continues in the spring. Each semester provides 2 credit hours of Natural Sciences (N) distribution credits and/or counts 2 hours toward the research requirement for the Molecular and Cellular Biology degree. No textbook is required.	2.00	20	TTh 9:00-11:30AM
AS.020.151	01	N		General Biology I <i>McCarty, Richard E</i>	4.00	350	MWF 12:00-12:50PM; T 12:00-12:50PM

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				Note: The Tuesday workshop is a required part of this course. This course begins with an overview of the biosphere, followed by analysis of ecosystem and exploration of animal behavior in the context of ecosystems and evolution. Next, the cellular and molecular basis of life and the energetics of organisms are presented as unifying themes. The biochemistry of organic molecules, factors controlling gene expression, cellular metabolism, and advances in biotechnology represent topics of concentration. Mechanisms of inheritance and evolution are introduced. This course will also include a series of workshops that will explore current trends in research, experimental design and analysis, and molecular modeling. Cross-listed with Behavioral Biology			
AS.020.151	02	N		General Biology I	4.00	20	MWF 12:00-12:50PM; T 12:00-12:50PM
AS.020.153	01	N		General Biology Lab I <i>Pearlman, Rebecca Shari</i> Student must have enrolled in 020.151 either this term or in past terms. Students who have credit for AP Biology but take General Biology Lab I will lose four credits of their overall credit for AP Biology. This course reinforces the topics covered in 020.151. Laboratory exercises explore subjects ranging from forest ecology to molecular biology to animal behavior. Students participate in a semester-long project, identifying bacteria using DNA sequencing. Cross-listed with Behavioral Biology	1.00	44	M 1:30-4:20PM; Th 12:00-12:50PM
AS.020.153	02	N		General Biology Lab I	1.00	74	T 1:30-4:20PM; Th 12:00-12:50PM
AS.020.153	03	N		General Biology Lab I	1.00	44	W 1:30-4:20PM; Th 12:00-12:50PM
AS.020.153	04	N		General Biology Lab I	1.00	74	Th 1:30-4:20PM; Th 12:00-12:50PM
AS.020.153	05	N		General Biology Lab I	1.00	44	Th 12:00-12:50PM; F 1:30-4:20PM
AS.020.161	01	N		Biology Workshop I <i>Pearlman, Rebecca Shari</i> Prereq: Score of 4 or 5 on AP Biology exam The workshop covers applications and current trends in Biology through guest lectures from researchers and hands-on computer programs. Credit will be awarded for EITHER 020.151 or 020.161, but not both.	1.00	100	T 12:00-12:50PM
AS.020.305	01	N		Biochemistry <i>Fisher, Emily J</i> Prereq: 030.101-102(Intro Chemistry) - Sophomores, Juniors, and Seniors Only. - The molecules responsible for the life processes of animals, plants, and microbes will be examined. The structures, biosynthesis, degradation, and interconversion of the major cellular constituents including carbohydrates, lipids, proteins, and nucleic acids will illustrate the similarity of the biomolecules and metabolic processes involved in diverse forms of life.	4.00	470	MWF 12:00-1:20PM
AS.020.307	01	N		Enzymes, Metabolism and Metabolic Disorders	3.00	50	MWF 11:00-11:50AM

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				<i>Lee, Young-Sam</i> This course will cover basic and advanced concepts in enzymology and metabolic processes while focusing on how these processes contribute to human health and diseases. This course is composed of lectures, discussion sessions, and student presentations.			
AS.020.315	01	N		Biochemistry Lab <i>Horner, Robert D</i> Coreq: 020.305 or 250.370 Sections 6-10 are for BIOLOGY AND MOLECULAR & CELLULAR BIOLOGY MAJORS ONLY. This course will reinforce the topics presented in Biochemistry 020.305 through laboratory exercises which use quantitative measurement to study cellular components and processes. Topics include pH, proteins, carbohydrates, lipids, nucleic acids, and enzymes.	2.00	40	M 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	02	N		Biochemistry Lab	2.00	30	T 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	03	N		Biochemistry Lab	2.00	30	W 1:30-2:20PM; W 2:30-5:30PM
AS.020.315	04	N		Biochemistry Lab	2.00	30	Th 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	05	N		Biochemistry Lab	2.00	40	F 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	06	N		Biochemistry Lab	2.00	40	M 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	07	N		Biochemistry Lab	2.00	30	T 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	08	N		Biochemistry Lab	2.00	30	W 2:30-5:30PM; W 1:30-2:20PM
AS.020.315	09	N		Biochemistry Lab	2.00	30	Th 1:30-4:30PM; W 1:30-2:20PM
AS.020.315	10	N		Biochemistry Lab	2.00	40	F 1:30-4:30PM; W 1:30-2:20PM
AS.020.317	01	N		Signaling in Development and Disease <i>Kuruvilla, Rejji</i> An advanced undergraduate level seminar on current topics on signal transduction mechanisms underlying neuronal morphology, development and function. The proper functioning of the nervous system relies on the establishment of precise neuronal circuits through a developmental program including proliferation, neuronal migration, axonal growth and neuronal survival. This course pertains to the extracellular cues and downstream neuronal signaling pathways that coordinate these key events during neuronal development. The course will also cover the role of aberrant signaling mechanisms in neuronal degeneration and disease. Prereqs: 020.305 and 020.306.	3.00		MW 4:30-5:45PM
AS.020.330	01	N		Genetics <i>Hoyt, Myles Andrew</i> Recommended pre-reqs 020.305 and 020.306; recommended co-req 020.340 Presentation of the principles of heredity and variation, and their application to evolution and development; physico-chemical nature of the gene; problems of recombination; gene action.	3.00	320	MWF 10:00-10:50AM

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Biology

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AS.020.331	01	N		Human Genetics <i>Hedgecock, Edward M</i> Will examine the growing impact of human genetics on the biological sciences, on law and medicine, and on our understanding of human origins. Topics include structure and evolution of human genome, genetic and physical mapping of human chromosomes, molecular genetics of inherited diseases and forensic genetics.	2.00	70	TTh 10:30-11:45AM
AS.020.334	01	N		Planets, Life and the Universe <i>Diruggiero, Jocelyne</i> Prereqs: Three upper level (300+) courses in sciences (Biophysics, Biology, Chemistry, Physics, Astronomy, Math or Computer Science) This multidisciplinary course explores the origins of life, planets' formation, Earth's evolution, extrasolar planets, habitable zones, life in extreme environments, the search for life in the Universe, space missions and planetary protection.	3.00	40	MWF 11:00-11:50AM
AS.020.340	01	N		Genetics Lab <i>Norris, Carolyn R</i> Prereq: 020.315 Biochemistry; Recommended prereq: 020.316 Cell Biology Labs; Coreq: 020.330. This laboratory explores the genetics of living organisms, and students in each section will therefore be required to return to lab on succeeding days to observe and record the results of their experiments.	2.00	22	T 1:30-5:20PM
AS.020.340	02	N		Genetics Lab	2.00	22	W 1:30-5:20PM
AS.020.340	03	N		Genetics Lab	2.00	22	Th 1:30-5:20PM
AS.020.340	07	N		Genetics Lab	2.00	22	W 5:30-9:30PM
AS.020.350	01	N		Intro to Clinical Medicine <i>Wondisford, Fredric</i> Perm. Req'd. Post-Bac Students Only	1.00	30	Th 6:30-8:50PM
AS.020.379	01	N		Evolution <i>Norris, Carolyn R</i> Prereq: 020.306, 020.330, or Perm. Req'd This course takes a broad look at the impact of Natural Selection and other evolutionary forces on evolution. Emphasis is placed on what we can learn from genome sequences about the history of life, as well as current evolutionary pressures.	3.00	45	MF 12:00-1:15PM
AS.020.380	01	N		Eukaryotic Molecular Biology <i>Beemon, Karen L</i>	3.00	50	TTh 1:30-2:45PM

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Biology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				The field of molecular biology is fundamental for those interested in modern biological research and medicine. In this course students examine DNA, RNA and protein synthesis (i.e., the "central dogma" of molecular biology) in molecular detail, as well as how these processes are regulated and interrelated. There is significant examination of molecular structure-function relationships, with particular emphasis on RNA synthesis and processing and chromosomal organization, nucleosome regulation and epigenetics. Modern and fundamental experimental techniques and concepts are explored in detail. Students will learn how to use some genome databases and bioinformatics tools available online to improve their molecular biology research skills and knowledge. Readings are both from scientific journals as well as a textbook that includes interactive online content.			
AS.020.401	01	N		Adv. Sem: Molec/Cell Bio <i>Tifft, Kathryn</i>	3.00	20	W 6:00-9:00PM
				MS candidates only This is a weekly seminar designed for graduate students enrolled in the B.A./M.S. or B.S./M.S. program. The seminar involves student presentations of research and discussion of topics of current interest in the field.			
AS.020.420	01	N		Build-a-Genome <i>Boeke, Jef D</i>	4.00	10	MWF 5:00-6:20PM
				Prereq: Permission of instructor; Must understand fundamentals of DNA structure, DNA electrophoresis and analysis, Polymerase Chain Reaction (PCR) and must be either a) Experienced with molecular biology lab work or b) Adept at programming with a biological twist. In this combination lecture/laboratory "Synthetic Biology" course students will learn how to make DNA building blocks used in an international project to build the world's first synthetic eukaryotic genome, <i>Saccharomyces cerevisiae</i> v. 2.0. Please study the wiki www.syntheticyeast.org for more details about the project. Following a biotechnology boot-camp, students will have 24/7 access to computational and wet-lab resources and will be expected to spend 15-20 hours per week on this course. Advanced students will be expected to contribute to the computational and biotech infrastructure. Co-listed with 580.420, 020.451 and 540.420 - Successful completion of this course provides 3 credit hours toward the supervised research requirement for MCB Majors, or 2 credit hours toward the upper level elective requirement for Biology or MCB majors.			
AS.020.441	01	N		Mentoring in Biology <i>Pearlman, Rebecca Shari</i>	1.00	22	F 1:10-1:20PM

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Biology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				S/U only Perm. Req'd Prereq: Successful completion 020.151/152 To become a mentor, students must have successfully completed 020.151/152, must apply using the form on the Biology Dept. Website, and must be accepted by the instructors. The deadline to apply is April 8th. This course provides students who have taken General Biology I & II the opportunity to mentor new students in General Biology I & II. Mentors collaborate with faculty on how to lead effective sessions, help student teams complete team assignments, and generally help students understand difficult concepts and principles in biology. Mentors must have a firm command of the topics covered in biology and must meet with both faculty and students through the course of the semester.			
AS.020.451	01	N		Build-a-Genome Mentor <i>Boeke, Jef D</i>	4.00	10	MWF 5:00-6:20PM
				Prereq: Permission of instructor; Must understand fundamentals of DNA structure, DNA electrophoresis and analysis, Polymerase Chain Reaction (PCR) and must be either a) Experienced with molecular biology lab work or b) Adept at programming with a biological twist. In this combination lecture/laboratory "Synthetic Biology" course students will learn how to make DNA building blocks used in an international project to build the world's first synthetic eukaryotic genome, <i>Saccharomyces cerevisiae</i> v. 2.0. Please study the wiki www.syntheticyeast.org for more details about the project. Following a biotechnology boot-camp, students will have 24/7 access to computational and wet-lab resources and will be expected to spend 15-20 hours per week on this course. Advanced students will be expected to contribute to the computational and biotech infrastructure. Co-listed with 580.420, 540.420, and 020.420.			
AS.080.305	01	N		The Nervous System I <i>Hendry, Stewart H</i>	3.00	196	TTh 1:30-2:45PM
				"No Freshmen" Prereq: 080.203 or 200.141 or 050.203 or 080.105 or Permission - The Nervous System is a fully integrated, two-semester course that surveys the cellular and molecular biology of neurons as well as the structure and function of the nervous system. Cross-listed with Biology.			
AS.250.351	01	N		Reproductive Physiology <i>Zirkin, Barry R</i>	2.00	90	W 3:00-4:45PM

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Biology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
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Prereq: 020.305

Focuses on reproductive physiology and biochemical and molecular regulation of the female and male reproductive tracts. Topics include the hypothalamus and pituitary, peptide and steroid hormone action, epididymis and male accessory sex organs, female reproductive tract, menstrual cycle, ovulation and gamete transport, fertilization and fertility enhancement, sexually transmitted diseases, and male and female contraceptive methods. Introductory lectures on each topic followed by research-oriented lectures and readings from current literature.

Cross listed with Biology.

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Biophysics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.250.131	01	N		Tpcs-Biophysics Research <i>Fleming, Karen G</i> Freshmen and sophomores only. S/U grading only. Introduction of contemporary biophysics research topics through presentations, discussion and hands-on exercise.	1.00	45	W 2:30-3:50PM
AS.250.205	01	N		Introduction to Computing <i>Fitch, Carolyn A</i> Instructor permission required. Course introduces students to the use of computers for applications in many areas (natural and social sciences, humanities, and engineering). Students will obtain basic computing skills and tools, including familiarity with UNIX, with the use of complex UNIX commands (e.g grep, awk, sed) and shell scripts, with the Python programming language, with graphing software and with a package for numerical and statistical computing, such as Mathematica or Matlab. Brief weekly lectures followed by extensive hands-on computer laboratories with examples from many disciplines. No prerequisites.	3.00	15	MWF 10:00-10:50AM
AS.250.345	01	N		Cellular/Molecular Phys <i>Cone, Richard A</i> How cells and molecules function as parts of whole organisms. Topics include speeds of diffusion, motor proteins, and animal motility; bacterial size, shape, and chemotaxis; sensory and neuronal mechanisms; osmosis; mucosal protective mechanisms; cellular and organismic circulation and respiration.	3.00	60	MWF 11:00-11:50AM
AS.250.351	01	N		Reproductive Physiology <i>Zirkin, Barry R</i> Prereq: 020.305 Focuses on reproductive physiology and biochemical and molecular regulation of the female and male reproductive tracts. Topics include the hypothalamus and pituitary, peptide and steroid hormone action, epididymis and male accessory sex organs, female reproductive tract, menstrual cycle, ovulation and gamete transport, fertilization and fertility enhancement, sexually transmitted diseases, and male and female contraceptive methods. Introductory lectures on each topic followed by research-oriented lectures and readings from current literature. Cross listed with Biology.	2.00	90	W 3:00-4:45PM

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Biophysics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.250.353	01	N		Computational Biology <i>Fleming, Patrick</i> Prerequisites: 020.305 and 030.101 and 030.102. Instructor permission required. Preference to Biophysics majors. Designed to make you think differently about molecules. A mostly computer lab course that introduces several computational approaches to the study of biological macromolecules. The concepts of molecular ensembles and probability distributions addressed in this course have application to all aspects of science. No programming experience is required.	3.00	15	TTh 10:30-11:45AM
AS.250.381	01			Spectroscopy and Its Application in Biophysical Reactions <i>Lecomte, Juliette</i> Continues Biophysical Chemistry (250.372). Fundamentals of quantum mechanics underlying various spectroscopies (absorbance, circular dichroism, fluorescence, NMR); application to characterization of enzymes and nucleic acids.	3.00	20	MWF 10:00-10:50AM
AS.250.383	01		W	Molecular Interactions Laboratory <i>Fleming, Karen G</i> Molecular interactions are key to biological processes. This advanced course combines lecture and laboratory format to introduce biophysical methods for measuring molecular interactions. Experiments are discovery based, and students measure protein folding and binding reactions using circular dichroism and fluorescence spectroscopy, analytical ultracentrifugation, and calorimetry. Emphasize problem solving and data analysis. Basic UNIX helpful. Instructor's permission required; preference to Biophysics majors; Prerequisites: Biochemistry and Lab 020.305/315. 250.372 Introduction to Biophysical Chemistry and either 250.265 Introduction to Bioinformatics or 250.353 Computational Biology are recommended and are helpful.	3.00	4	T 1:30-6:00PM

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Center for Africana Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.070.103	01	HS	W	Africa & The Museum <i>Guyer, Jane</i> An introduction to Africa, artistic creativity, collection and exhibition: as African history, as anthropology of art and objects, and as public controversy in our national institutions. Works with the Baltimore Museum of Art. Cross-listed with Africana Studies and Programs in Museums and Society.	3.00	20	T 1:30-3:50PM
AS.130.400	01	H		Intro to Middle Egyptian <i>Jasnow, Richard</i> Introduction to the grammar and writing system of the classical language of the Egyptian Middle Kingdom (ca. 2055-1650 B.C.). In the second semester, literary texts and royal inscriptions will be read. Course meets with AS.133.600	3.00	16	F 1:30-2:30PM; MW 1:30-2:45PM
AS.191.340	01	S	W	Education Politics in Urban America <i>Hayes, Floyd, III.</i> This seminar analyzes trends, developments, and future challenges related to the politics of urban public schooling with a concentration on community political dynamics and the struggle for equal educational opportunity and quality education. The course emphasizes the impact of socioeconomic class inequality, racial/ethnic conflict, and gender politics on the changing character of public school reform since the 1954 Supreme Court decision of Brown v. Board of Education. Cross-listed with Africana Studies	3.00		Th 3:00-5:20PM
AS.210.177	01			Portuguese Elements <i>Bensabat Ott, Mary M</i> This one-year course introduces students to the basic skills in reading, writing, and speaking the language. Emphasis is placed on oral communication with, however, extensive training in written and listening skills. Class participation is encouraged from the very beginning. All classes are conducted in Portuguese. Extensive language lab is required. Students must complete both semesters with passing grades to receive credit. May not be taken on a satisfactory/unsatisfactory basis. No previous knowledge of Portuguese is required.	4.00	25	MWF 11:00-11:50AM
AS.210.277	01	H		Intermediate/ Advanced Portuguese <i>Anitagrace, Joyce</i> More advanced training in the skills of the language with emphasis on vocabulary building, ease and fluency in the language through the use of a multifaceted approach. Materials used immerse students in the cultures of Brazil, Portugal, and Portuguese-speaking Africa, and reflect the mix of cultures at work in the contemporary Lusophone world. All classes are conducted in Portuguese. Extensive language lab is required. May not be taken on a satisfactory/unsatisfactory basis. Pre-requisites: AS.210.177/178, or placement test.	3.00	25	MWF 10:00-10:50AM
AS.210.391	01	H	W	Portuguese Lang & Lit <i>Bensabat Ott, Mary M</i>	3.00	25	MWF 9:00-9:50AM

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				This third-year course focuses on reading, writing, and oral expression. Under the supervision of the instructor, students will read one or two complete works by major Brazilian, Portuguese, and/or Afro-Portuguese writers each semester, followed by intense writing and oral discussion on the topics covered. Grammar will be reviewed as necessary. Lab work is required. All classes are conducted in Portuguese. Prereq: 210.277.278 or placement exam . Permission Req'd.			
AS.211.394	01	H	W	Brazilian Cult & Civ <i>Bensabat Ott, Mary M</i>	3.00		M 2:00-4:30PM
				This course surveys the culture and civilization of Brazil emphasizing influences of African, Asian, European, and indigenous cultures over four centuries. Using a multimedia approach, it examines art, music, popular culture, history, theater, literature, and cinema. Course taught in English, but ONE extra credit will be given to students who wish to do the course work in Portuguese. The sections will be taught simultaneously. Section 01 – work done in English Section 02 – work done in Portuguese; Permission Required for sec. 02 only			
AS.211.394	02	H	W	Brazilian Cult & Civ	3.50		M 2:00-4:30PM
AS.215.458	01	H		Cuba and its Culture Since the Revolution <i>Gonzalez, Eduardo</i>	3.00	15	M 1:30-4:00PM
				We will study the visual and textual arts, cinema, political culture, and blogosphere; reaching back to the first phases in the building of the revolutionary state apparatus and its sovereign mandate. Taught in Spanish.			
AS.230.313	01	S	W	Space, Place, Poverty & Race: Sociological Perspectives on Neighborhoods & Public Housing <i>Deluca, Stefanie</i>	3.00	30	T 3:00-5:30PM
				Is a neighborhood just a grouping of individuals living in the same place, or do neighborhoods have collective meanings and impacts on children and families? We will capitalize on research methodologies used to define and describe neighborhoods and their effects on economic and educational outcomes. These include case studies, census data, surveys, quasi/experimental data. Focus is on how research measures neighborhood effects and incorporates community level processes into models of social causation (e.g., social capital/control, community efficacy, civic engagement). Also examined: patterns in residential mobility, segregation, and preferences within black and white populations; development of housing policy in the U.S.; programs to determine how neighborhoods affect issues of social importance. Statistics and public policy background is helpful but not required.			
AS.362.104	01	H	W	Introduction to to the African Diaspora <i>Romero, Patricia</i>	3.00	15	Th 2:00-4:30PM

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				This course will provide an overview of West and Central African societies before the advent of the Atlantic slave trade in the late 1400s, introduce European contact with Africa and examine the forced migration of Africans to the Americas via the Atlantic slave trade.			
AS.362.105	01	HS	W	Reading Seminar: Black Society in the Americas <i>Knight, Franklin</i>	3.00	10	W 4:00-6:30PM
				Jointly offered with Moira Hinderer, based on themes developed from the archives of the Afro-American Newspaper and selected readings of African American Societies from across the hemisphere of the Americas.			
AS.362.340	01	S	W	Power and Racism <i>Hayes, Floyd, III.</i>	3.00	20	T 1:30-3:50PM
				This course investigates the impact of white supremacy and anti-black racism, as a global system of power, on the political development of the United States of America.			
AS.362.414	01	H	W	Jim Crow in America <i>Connolly, Nathan D</i>	3.00	15	T 1:30-3:50PM
				This course explores the cultural, economic, legal, and political factors that led to the establishment and maintenance of racial apartheid in the United States during the nineteenth and twentieth centuries.			

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.373.111	01			First Year Heritage Chinese <i>Lievens, Liman</i> This course is designed for students who were raised in an environment in which Chinese is spoken by parents or guardians at home and for those who are familiar with the language and possess native-like abilities in comprehension and speaking. The course therefore focuses on reading and writing (including the correct use of grammar). Cross-listed with East Asian Studies	3.00	16	MWF 11:00-11:50AM
AS.373.111	02			First Year Heritage Chinese	3.00	16	MWF 12:00-12:50PM
AS.373.115	01			First Year Chinese <i>Li, Lu</i> This course is designed primarily for students who have no prior exposure to Chinese. The objective of the course is to help students build a solid foundation of the four basic skills--listening, speaking, reading, and writing in an interactive and communicative learning environment. The emphasis is on correct pronunciation, accurate tones and mastery of basic grammatical structures. Note: Students with existing demonstrable skills in spoken Chinese should take 373.111-112. No Satisfactory/ Unsatisfactory Cross-listed with East Asian Studies	4.50	16	MTWThF 9:00-9:50AM
AS.373.115	02			First Year Chinese	4.50	16	MWF 11:00-11:50AM; TTh 9:00-9:50AM
AS.373.115	03			First Year Chinese	4.50	16	TTh 3:00-3:50PM; MWF 12:00-12:50PM
AS.373.115	04			First Year Chinese	4.50	16	MTWThF 3:00-3:50PM
AS.373.211	01	H		Second Year Heritage Chinese <i>Chen, Aiguo</i> This course is designed for students who finished 373.112 with C+ and above (or equivalent). Students in this course possess native-like abilities in comprehension and speaking. The course focuses on reading and writing. Cross-listed with East Asian Studies	3.00	16	MWF 11:00-11:50AM
AS.373.211	02	H		Second Year Heritage Chinese	3.00	16	MWF 12:00-12:50PM
AS.373.215	01	H		Second Year Chinese <i>Chen, Aiguo</i> Consolidation of the foundation that students have laid in their first year of study and continued drill and practice in the spoken language, with continued expansion of reading and writing vocabulary and sentence patterns. Students will work with both simplified and traditional characters. Note: Students who have native-like abilities in comprehension and speaking should take 373.211-212. Cross-listed with East Asian Studies	4.50	16	MWF 9:00-9:50AM; TTh 12:00-12:50PM
AS.373.215	02	H		Second Year Chinese	4.50	16	MWF 11:00-11:50AM; TTh 3:00-3:50PM
AS.373.215	03	H		Second Year Chinese	4.50	16	MWF 12:00-12:50PM; TTh 3:00-3:50PM
AS.373.313	01	H		Third Year Heritage Chinese <i>Chen, Aiguo</i>	3.00	16	MWF 10:00-10:50AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course is designed for those who have already taken 373.212 or equivalent. Students need to have native-level fluency in speaking and understanding Chinese. The course focuses on reading and writing. In addition to the textbooks, downloaded articles on current affairs may also be introduced on a regular basis. Cross-listed with East Asian Studies			
AS.373.315	01	H		Third Year Chinese <i>Lievens, Liman</i> Prereq: 373.216 or equivalent This two-semester course consolidates and further expands students' knowledge of grammar and vocabulary and further develops reading ability through work with textbook material and selected modern essays and short stories. Class discussions will be in Chinese insofar as feasible and written assignments will be given. Cross-listed with East Asian Studies	3.00	16	MWF 10:00-10:50AM
AS.373.415	01	H		Fourth Year Chinese <i>Lievens, Liman</i> Prereq: 373.315 This course is designed for students who finished 373.316 with a C+ or above (or equivalent). Readings in modern Chinese prose, including outstanding examples of literature, newspaper articles, etc. Students are supposed to be able to understand most of the readings with the aid of a dictionary, so that class discussion is not focused primarily on detailed explanation of grammar. Discussion, to be conducted in Chinese, will concentrate on the cultural significance of the readings' content. Cross-listed with East Asian Studies	3.00	16	MWF 3:00-3:50PM
AS.375.115	01			First Year Arabic <i>Abdallah, Fadel</i> Introductory course in speaking, listening, reading, and writing Modern Standard Arabic. Presents basic grammatical structures and a basic vocabulary. Through oral-aural drill in classroom, tapes in Language Laboratory, and reading/writing exercises, students attain a basic level of competence on which they can build in subsequent years of study. No Satisfactory/ Unsatisfactory	4.50	18	MTWThF 9:00-9:50AM
AS.375.115	02			First Year Arabic	4.50	18	MTWThF 10:00-10:50AM
AS.375.115	03			First Year Arabic	4.50	18	MTWThF 11:00-11:50AM
AS.375.215	01	H		Second Year Arabic <i>Abdallah, Fadel</i> Prereq: 375.115-116 or equivalent Designed to bring students up to competency level required for third/fourth year Arabic. Students will consolidate and expand their mastery of the four basic skills acquired in 375.115-116. More authentic material--written, audio, and visual--will be used, and culture will be further expanded on as a fifth skill.	4.00	18	MTWTh 12:00-12:50PM
AS.375.215	02	H		Second Year Arabic	4.00	18	MTWTh 3:00-3:50PM
AS.375.301	01	H		Third Year Arabic <i>Tahrawi, Khalil</i>	3.00	15	MW 1:30-2:50PM

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				Prereq: 375.216 or equivalent Designed to enhance students' ability to read, discuss, and write about various topics covered in traditional and contemporary Arabic texts			
AS.375.401	01	H		Fourth Year Arabic <i>Tahrawi, Khalil</i>	3.00	18	MW 3:00-4:20PM
				This is an introductory course to different periods of the Arabic literature. Selections of famous Arabic poetry and short prose works are the substance of the course.			
AS.377.131	01			Elements of Russian I <i>Samilenko, Olya</i>	4.00	20	MTWF 9:00-9:50AM
				Designed to give student a firm foundation in the language, with special emphasis on the development of vocabulary, basic reading, and conversational skills. (Section 02 taught at Goucher College)			
AS.377.131	02			Elements of Russian I <i>Czeczulin, Annalisa</i>	4.00	55	MTWF 1:30-2:20PM
AS.377.208	01	H		Int Intermediate Russian <i>Czeczulin, Annalisa</i>	4.00	18	MTWF 10:00-10:50AM
				Prereq. 377.132 Intensive oral work; continued emphasis on grammar and reading comprehension. (Section 02 taught at Goucher College)			
AS.377.208	02	H		Int Intermediate Russian	4.00	18	MTWF 12:30-1:20PM
AS.377.211	01	H		Intro to Russian Lit I <i>Samilenko, Olya</i>	3.00	18	MWF 10:00-10:50AM
				This first intensive reading course of the literary sequence focuses on a survey of major writers, genres, and literary movements of mid-nineteenth century Russia including select works of Pushkin, Gogol, Lermontov, Turgenev, Tolstoy and Dostoevsky adapted to the intermediate level.			
AS.377.269	01	H	W	The Russian Fairy Tale <i>Czeczulin, Annalisa</i>	3.00	18	MWF 2:30-3:20PM
				A survey course of Russian oral and subsequent written tradition using multimedia and presented against the background of the Indo-European tradition. Taught in English at Goucher College			
AS.377.395	01	H	W	Seminar I: Russian Theater <i>Samilenko, Olya</i>	3.00	18	MWF 11:00AM-11:50PM
				18th and 19th century Russian comedy and drama from Fonvizin to Chekhov.			
AS.378.115	01			First Year Japanese <i>Nakao, Makiko Pennington</i>	4.50	16	MWF 10:00-10:50AM; TTh 10:00-10:50AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course is designed for students who have no background or previous knowledge in Japanese. The course consists of lectures on Tuesday/Thursday and conversation classes on Monday/Wednesdays/Fridays. The goal of the course is the simultaneous progression of four skills (speaking, listening, writing, and reading) as well as familiarity with aspects of Japanese culture. By the end of the year, students will have basic speaking and listening comprehension skills, a solid grasp of basic grammar items, reading and writing skills, and a recognition and production of approximately 150 kanji in context. Knowledge of grammar will be expanded significantly in 373.215. No Satisfactory/ Unsatisfactory. Cross-listed with East Asian Studies			
AS.378.115	02			First Year Japanese	4.50	16	TTh 11:00-11:50AM; MWF 11:00-11:50AM
AS.378.115	03			First Year Japanese	4.50	16	MWF 12:00-12:50PM; TTh 11:00-11:50AM
AS.378.215	01	H		Second Year Japanese	4.50	16	MWF 11:00-11:50AM; TTh 10:30-11:20AM
				<i>Katagiri, Satoko</i> Prereq: 378.116 or equivalent Training in spoken and written language, increasing their knowledge of more complex patterns. At completion, students will have a working knowledge of about 250 Kanji. Cross-listed with East Asian Studies			
AS.378.215	02	H		Second Year Japanese	4.50	16	MTWThF 12:00-12:50PM
AS.378.315	01	H		Third Year Japanese	3.00	16	MWF 9:00-9:50AM
				<i>Katagiri, Satoko</i> Prereq: 378.215-216 Emphasis shifts toward reading, while development of oral-aural skills also continues apace. The course presents graded readings in expository prose and requires students to expand their knowledge of Kanji, grammar, and both spoken and written vocabulary. Cross-listed with East Asian Studies			
AS.378.396	01	H		Fundamentals of Japanese Grammar	2.00	20	Th 4:00-5:40PM
				<i>Johnson, Mayumi Yuki</i> Prereq: 378.116 or equiv. This course is designed for students who have already studied 1st-year Japanese grammar and wish to develop a thorough knowledge of Japanese grammar in order to advance all aspects of language skills to a higher level. It is also appropriate for graduate students who need to be able to read materials written in Japanese.			
AS.378.415	01	H		Fourth Year Japanese	3.00	16	MW 1:30-2:50PM
				<i>Nakao, Makiko Pennington</i> Prereq: 378.316 or equivalent By using four skills in participatory activities (reading, presentation, and discussion), students will develop reading skills in modern Japanese and deepen and enhance their knowledge on Kanji and Japanese culture. Cross-listed with East Asian Studies			

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Center for Language Education

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.380.101	01			First Year Korean <i>Kang, Choonwon</i> Introduces the Korean alphabet, hangeul. Covers basic elements of the Korean language, high-frequency words and phrases, including cultural aspects. Focuses on oral fluency reaching Limited Proficiency where one can handle simple daily conversations. No Satisfactory/ Unsatisfactory. Cross-listed with East Asian Studies	3.00	16	MWF 9:00-9:50AM
AS.380.201	01	H		Second Year Korean <i>Kang, Choonwon</i> Prereq: Existing demonstrable skills in spoken Korean Aims for improving oral proficiency and confident control of grammar with vocabulary building and correct spelling intended. Reading materials of Korean people, places, and societies will enhance cultural understanding and awareness. Project due on Korean cities. Cross-listed with East Asian Studies	3.00	16	MWF 10:00-10:50AM
AS.380.301	01	H		Third Year Korean <i>Kang, Choonwon</i> Emphasizes reading literacy in classic and modern Korean prose, from easy essays to difficult short stories. Vocabulary refinement and native-like grasp of grammar explored. Project due on Korean culture. Cross-listed with East Asian Studies	3.00	16	MW 12:00-1:15PM
AS.381.101	01			Beginning Hindi I <i>Saini, Uma</i> Lab Req'd. Course focuses on acquisition of additional vocabulary and grammatical structures in culturally authentic contexts, listening, speaking, reading, and writing comprehension. No Satisfactory/ Unsatisfactory	3.00	15	TTh 10:30-11:50AM
AS.381.101	02			Beginning Hindi I	3.00	15	TTh 3:00-4:20PM
AS.381.201	01	H		Intermediate Hindi I <i>Saini, Uma</i> Prereq: 381.101-102 Course provides refinement of basic language skills in cultural context. Emphasis will be on expansion of vocabulary and grammatical structures and further development of communicative skills.	3.00	15	TTh 4:30-5:50PM
AS.384.115	01			First Year Hebrew <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	15	MTWTh 9:00-9:50AM
AS.384.215	01	H		Second Year Hebrew <i>Cohen, Zvi</i> Prereqs: 384.115 and 384.116 or 130.450 and 451 Designed to enrich vocabulary and provide intensive grammatical review, and enhance fluency in reading, writing and comprehension. Cross-listed with Jewish Studies.	4.00	10	MW 10:00-10:50AM; TTh 10:30-11:20AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.384.315	01	H		Third Year Hebrew <i>Cohen, Zvi</i> Prereqs: 384.215 and 384.216 or 130.452 and 130.453 Designed to: maximize comprehension and the spoken language through literary and newspaper excerpts providing the student with the language of an educated Israeli. Cross-listed with Jewish Studies.	4.00	10	MTWTh 1:30-2:20PM

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Chemistry

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.030.101	01	N		Introductory Chemistry I <i>Staff</i> Corequisite: 030.105. Switching sections requires instructor's approval. An introduction to the fundamental principles of chemistry. The main topics to be covered are atomic and molecular structure at the level of dot structures and VSEPR geometries, the periodic table, stoichiometry and the balancing of chemical equations, the gas laws, the law of mass action and chemical equilibrium, acids and bases, and elementary chemical thermodynamics.	3.00	300	MWF 9:00-9:50AM
AS.030.101	02	N		Introductory Chemistry I	3.00	300	MWF 10:00-10:50AM
AS.030.103	01	N		Applied Chemical Equilibrium and Reactivity w/lab <i>Greco, Jane</i> This course is designed for freshmen who have received AP or other placement credit for 030.101-102. Chemical equilibrium, reactivity and bonding will be covered. These topics will be explored through the use of laboratory experiments and problem solving, and the use of these principles in current research areas will be discussed.	4.00	30	MWF 9:00-9:50AM; T 1:30-5:00PM
AS.030.103	02	N		Applied Chemical Equilibrium and Reactivity w/lab	4.00	30	MWF 9:00-9:50AM; Th 1:30-5:00PM
AS.030.105	01	N		Intro Chemistry Lab I <i>Pasternack, Louise</i> Coreq: 030.101 or 510.101 - Laboratory in the fundamental methods of chemistry with related calculations. Lab lecture meets at 1:30pm on Thursday and Friday. Students may attend either lecture regardless of the section number for which they are registered.	1.00	90	F 1:30-2:20PM; M 1:30-4:20PM
AS.030.105	02	N		Intro Chemistry Lab I	1.00	90	Th 1:30-2:20PM; T 1:30-4:20PM
AS.030.105	03	N		Intro Chemistry Lab I	1.00	90	W 1:30-4:20PM; F 1:30-2:20PM
AS.030.105	04	N		Intro Chemistry Lab I	1.00	90	Th 2:30-5:20PM; Th 1:30-2:20PM
AS.030.105	05	N		Intro Chemistry Lab I	1.00	90	F 2:30-5:20PM; F 1:30-2:20PM
AS.030.105	06	N		Intro Chemistry Lab I	1.00	90	Th 1:30-2:20PM; Th 9:00-11:50AM
AS.030.205	01	N		Organic Chemistry I <i>Staff</i> Prereq: 030.101-102, 030.105-106	4.00	300	MWF 9:00-9:50AM; Th 9:00-10:20AM
AS.030.205	02	N		Organic Chemistry I	4.00	300	MWF 10:00-10:50AM; Th 9:00-10:20AM
AS.030.225	01	N		Intro Organic Chem Lab <i>Staff</i> Coreq: 030.104 or 030.205 Prereq: 030.101-102, 030.105 Course lecture meets at both 9am and 10am. Students may attend either lecture regardless of the section number they are registered for. Techniques for the organic chemistry laboratory including methods of purification, isolation, synthesis, and analysis. Chemistry majors should take this course in the fall semester. Perm. Req'd. for Freshmen	3.00	54	M 1:30-6:30PM; T 9:00-10:20AM
AS.030.225	02	N		Intro Organic Chem Lab	3.00	54	T 12:30-5:30PM; T 9:00-10:20AM
AS.030.225	03	N		Intro Organic Chem Lab	3.00	44	W 1:30-6:30PM; T 9:00-10:20AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.030.225	04	N		Intro Organic Chem Lab <i>Greco, Jane</i>	3.00	54	Th 12:30-5:30PM; T 9:00-10:20AM
AS.030.225	05	N		Intro Organic Chem Lab <i>Staff</i>	3.00	44	F 1:30-6:30PM; T 9:00-10:20AM
AS.030.301	01	N		Physical Chemistry I <i>Poland, Douglas C</i> Prereq: General physics, general chemistry, and calculus (two semesters recommended) "Freshmen by permission only" The laws of thermodynamics, their statistical foundation, and application to chemical phenomena.	3.00	60	MWF 10:00-10:50AM
AS.030.305	01	N		Phys Chem Instr Lab I <i>Bragg, Arthur E</i> Pre- or corequisites: 030.301-302. Chemistry majors only This course is designed to illustrate the principles of physical chemistry and to introduce the student to techniques and instruments used in modern chemical research. Chemistry majors are expected to take this sequence of courses, rather than 030.307.	3.00	25	M 1:30-2:20PM; M 2:30-6:30PM
AS.030.305	02	N		Phys Chem Instr Lab I	3.00	25	M 1:30-2:20PM; W 2:30-6:30PM
AS.030.307	01	N		Phys Chem Lab III <i>Trapane, Tina Lynn</i> Prereq: 030.301-302 or equivalent. Chemical Engineering majors only This is a one-semester course which selects experiments that are most relevant to chemical engineering.	3.00	20	T 1:30-2:20PM; T 2:30-6:30PM
AS.030.307	02	N		Phys Chem Lab III	3.00	20	Th 1:30-2:20PM; Th 2:30-6:30PM
AS.030.356	01	N		Advanced Inorganic Lab <i>Roth, Justine P</i> Laboratory designed to illustrate the principles and practice of inorganic chemistry through the synthesis and characterization of transition metal and organometallic compounds. Methods used include vacuum and inert atmosphere techniques. Instrumental approaches and modern spectroscopic techniques are applied to the characterization of compounds generated.	3.00	15	T 1:30-2:20PM; W 1:30-6:30PM
AS.030.356	02	N		Advanced Inorganic Lab	3.00	15	T 1:30-2:20PM; F 1:30-6:30PM
AS.030.441	01	N		Spectroscopic Methods of Organic Structure Determination <i>Tovar, John Dayton</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	30	MWF 11:00-11:50AM
AS.030.442	01	N		Organometallic Chemistry <i>Roth, Justine P</i> An introduction to organometallic chemistry beginning with structure, bonding and reactivity and continuing into applications to fine chemical synthesis and catalysis. Co- or Prereq: 030.449 or equivalent	3.00	25	TTh 2:30-3:45PM
AS.030.449	01	N		Chemistry of Inorganic Compounds <i>Mcqueen, Tyrel</i>	3.00	30	TTh 9:00-10:15AM

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				Physical and chemical properties of inorganic, coordination and organometallic compounds are discussed in terms of molecular orbital, ligand field and crystal field theories. Emphasis on structure and reactivity of these inorganic compounds. Other topics: magnetic properties, electronic spectra, magnetic resonance spectra, reaction kinetics.			
AS.030.452	01	N		Materials & Surface <i>Fairbrother, D Howard</i>	3.00	35	TTh 9:00-10:15AM
				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.030.453	01	N		Intermed Quantum Chem <i>Silverstone, Harris</i>	3.00	20	MWF 11:00-11:50AM
				Prereq: 030.301-302 The principles of quantum mechanics are developed and applied to chemical problems.			

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Classics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.010.357	01	H		Monumentality in Classical Art and Architecture: From Greece to Rome <i>Tucci, Pier Luigi</i> This course investigates the Romans' reception of Greek and Hellenistic art and architecture, as well as Rome's original contribution during the republican and imperial age. Its goal is to examine the effects of Hellenization on Roman society and the creation of a completely new visual language.	3.00	25	TTh 4:30-5:45PM
AS.040.104	01	H		The Roman Republic: History, Culture, and Afterlife <i>Roller, Matthew</i> This introductory level course examines the history, society, and culture of the Roman state in the Republican period (509-31 BCE), during which it expanded from a small city-state to a Mediterranean empire. We also consider the Republic's importance for American revolutionaries in the 18th century. All readings in English.	3.00	25	WF 1:30-2:20PM; M 1:30-2:20PM
AS.040.104	02	H		The Roman Republic: History, Culture, and Afterlife	3.00	25	WF 1:30-2:20PM; M 3:00-3:50PM
AS.040.105	01			Elementary Ancient Greek <i>Staff</i> This course provides a comprehensive, intensive introduction to the study of ancient Greek. During the first semester, the focus will be on morphology and vocabulary. Credit is given only upon completion of a year's work. Cannot be taken Satisfactory/Unsatisfactory.	4.00	20	MWF 9:00-9:50AM; TTh 9:00-9:50AM
AS.040.107	01			Elementary Latin <i>Staff</i> This course provides a comprehensive, intensive introduction to the study of Latin for new students, as well as a systematic review for those students with a background in Latin. Emphasis during the first semester will be on morphology and vocabulary. Credit is given only upon completion of a year's work. Course may not be taken Satisfactory/Unsatisfactory.	3.50	20	MWF 10:00-10:50AM
AS.040.107	02			Elementary Latin	3.50	20	MWF 11:00-11:50AM
AS.040.137	01	H	W	Archaeology at the Crossroads: The Ancient Eastern Mediterranean through Objects in the JHU Archaeological Museum <i>Anderson, Emily S.K.</i> Limited to Freshmen. This seminar investigates the Eastern Mediterranean as a space of intense cultural interaction in the Late Bronze Age, exploring how people, ideas, and things not only came into contact but deeply influenced one another through maritime trade, art, politics, etc. In addition to class discussion, we will work hands-on with artifacts from the JHU Archaeological Museum, focusing on material from Cyprus. Cross-list with Museums and Society and Near Eastern Studies.	3.00	10	TTh 10:30-11:45AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.040.205	01	H		Intermediate Ancient Greek <i>Staff</i> Prerequisites: AS.040.105-106 or equivalent. Reading ability in classical Greek is developed through a study of various authors.	3.00	20	TTh 1:30-2:45PM
AS.040.207	01	H		Intermediate Latin <i>Staff</i> Prerequisites: AS.040.107-108 or equivalent. Although emphasis is still placed on development of rapid comprehension, readings and discussions introduce student to study of Latin literature, principally through texts of various authors.	3.00	20	MWF 10:00-10:50AM
AS.040.231	01	H		Word and Image in Ancient Greece: Art, Literature, Inscriptions <i>Yatromanolakis, Dimitrios</i> Freshmen and Sophomores only. Focusing on art (mainly vase-paintings and sculpture), texts, and inscriptions, this course examines major aspects of archaic, classical, and Hellenistic Greek culture. Emphasis placed on the interplay of word and image.	3.00	30	TTh 3:00-4:15PM
AS.040.305	01	H		Advanced Ancient Greek <i>Montiglio, Silvia</i> Prerequisites: AS.040.205-206 or equivalent. Reading of prose or verse authors, depending on the needs of students. This semester's reading will focus on Longus's Daphnis and Chloe, a love story in the woods. (Same as AS.040.705)	3.00	8	TTh 1:30-2:45PM
AS.040.308	01	H		Advanced Latin Poetry <i>Valladares, Herica</i> Prerequisites: AS.040.207-208 or equivalent. The aim of this course is to increase proficiency and improve comprehension of the Latin language. Intensive reading of Latin texts, with close attention to matters of grammar, idiom, and translation. This semester's reading will focus on excerpts from Seneca's Phaedra and Medea. (Same as AS.040.710)	3.00	8	MW 12:00-1:15PM
AS.040.363	01	H	W	Craft and Craftpersons of the Ancient World: Status, Creativity and Tradition <i>Anderson, Emily S.K.</i> This course explores the dynamic work and social roles of craftpersons in early Greece, the eastern Mediterranean and Near East. Readings and discussion will query the identities and contributions of these people—travelers, captives, lauded masters, and even children—through topics including gender, class, and ethnicity. Special focus on late third-early first millennia BCE; local field trips. Cross-listed with Near Eastern Studies.	3.00	15	T 3:00-5:30PM
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i>	3.00	15	TTh 10:30-11:45AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Machiavelli, Shakespeare, Flaubert, Douglass, and Woolf, as well as musical compositions by Bach and Ravel.			
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	03	H	W	Great Books at Hopkins <i>Coleman, James</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	04	H	W	Great Books at Hopkins <i>Talle, Andrew</i>	3.00	15	TTh 10:30-11:45AM

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Cognitive Science

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.050.101	01	NS		Cognition <i>Wilson, Colin</i> Introductory course exploring the study of human mental processes within the field of cognitive science. Drawing upon cognitive psychology, cognitive neuropsychology, cognitive neuroscience, linguistics, and artificial intelligence, the course examines theory, methods, and major findings in work on vision, reasoning, and language.	3.00	150	MW 12:00-1:15PM
AS.050.105	01	NS		Intro To Cognitive Neuropsychology <i>McCloskey, Michael E</i> When the brain is damaged or fails to develop normally, even the most basic cognitive abilities (such as the ability to understand words, or perceive objects) may be disrupted, often in remarkable ways. This course explores a wide range of cognitive deficits, focusing on what these deficits can tell us about how the normal brain works. Topics include brain anatomy and causes of brain damage, reading and spelling deficits, unilateral spatial neglect, hemispheric disconnection, cortical plasticity, and visual perception of location and orientation. Students read primary sources: journal articles that report deficits and discuss their implications. Cross-listed with Neuroscience.	3.00	125	TTh 1:30-2:45PM
AS.050.204	01	NS		Visual Cognition <i>Park, Soojin</i> Vision is central to our daily interactions with the world: we can effortlessly navigate through a city, comprehend fast movie trailers, and find a friend in a crowd. While we take the visual experience for granted, visual perception involves a series of complicated cognitive processes beyond just opening our eyes. The goal of this course is to provide an introduction to visual cognition, including existing theoretical frameworks and recent research findings. We will explore questions such as: How do we see the visual world? Do we see and remember correctly what's in the physical world? Do infants see the world the same way as adults do? How is the visual system structured and what are the neural mechanisms underlying visual perception? No prerequisites. Cross-listed with Psychological and Brain Sciences	3.00	50	TTh 9:00-10:15AM
AS.050.317	01	NS		Semantics I <i>Rawlins, Kyle</i>	3.00	40	TTh 12:00-1:15PM

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Cognitive Science

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<p>This course is an introduction to the study of meaning in natural language. We address both the conceptual and empirical issues that a semantic theory must grapple with, as well as some of the formal machinery that has been developed to deal with such problems. After discussing foundational questions, we turn to formal semantics and pragmatics, as well as their interfaces with syntax and the lexicon. Specific topics covered include conversational implicature; presupposition, type-driven composition, quantification and scope, lexical aspect, argument structure, and the nature of lexical representations of meaning.</p> <p>*Meets with AS.050.617</p>			
AS.050.318	01	NS		<p>Practicum in Language Disorders <i>Rapp, Brenda C</i></p> <p>Prerequisites: Students with a junior or senior status. Students must have taken and earned an A-or above in: 080.203; or 050.203; or 050.105; or 050.311. A minimum major GPA of 3.5 is required.</p> <p>Please see additional instructions on: the Neuroscience Department Website</p> <p>This course provides the opportunity to learn about adult aphasia; language disorders which are one of the most common consequences of stroke. You will receive training in Supportive Communication Techniques and work as a communication partner with an individual with aphasia for two hours per week. Three class meetings for orientation and reading assignments will be held on campus; training and practicum will be conducted at a local aphasia support center. Transportation required.</p>	1.00	4	TBA
AS.050.333	01	NS	W	<p>Psycholinguistics <i>Omaki, Akira</i></p> <p>This course provides a broad survey of current research on language processing in adult native speakers and language learners. Topics include speech perception, word recognition, and sentence production and comprehension. We will discuss the nature of representations that are being constructed in real-time language use, as well as how the mental procedures for constructing linguistic representations could be studied by various behavioral and physiological measures. Prerequisite (one of the followings): 050.102, or 050.240, or permission. Meets with AS.050.633</p>	3.00	20	TTh 10:30-11:45AM

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Dean's Teaching Fellowship Courses

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AS.060.278	01	H	W	<p>Social Climbers and Charlatans in American Literature <i>Tye, Douglas Allen</i> "It's good to be shifty in a new country," declares Johnson Hooper's swindling vagabond Simon Suggs. The ability to speak in many voices—to play many roles—is one key facet of the rags-to-riches American ideal of not only making something of one's self, but of making one's self. But how much social mobility or personal fluidity is too much? In this course, we'll consider the problem of fashioning a self that is both flexible and authentic, both capacious and individual, as it is represented in a broad swath of American literature. We'll begin with Benjamin Franklin's Autobiography, in which Franklin reimagines his life into an intricate web of fact and fabrication. From there, we'll explore the Transcendentalist ideal of the "Moral Sense," in the form of Emersonian self-reliance and Thoreau's revolutionary militancy, and its dark side in Poe's "Imp of the Perverse." After this, we'll account for the great showman P.T. Barnum, who splits the difference between legitimate businessman and devious swindler. We'll see what happens when, in order to make yourself, you first have to steal yourself in "The Narrative of the Life of Frederick Douglass, American Slave". In Mark Twain's "Pudd'nhead Wilson" and Nella Larsen's "Passing", we'll investigate how, why, and with what consequences black Americans might try to pass for white. As the semester winds down, we'll reconsider the rise and fall of Fitzgerald's Jay Gatsby, the mobster made good (if only for a while), before ending with Nathanael West's "Miss Lonelyhearts", a dark comedy about a man who writes an advice column as a woman. The course will explore some of the fine lines—between honest art and heinous hoaxing, belief and delusion, entrepreneurship and charlatanry—relentlessly worked over in American literature since the nation's inception. Throughout, we'll take stock of the possibilities and pitfalls lurking in the seemingly incompatible goals of novelty and authenticity, fluidity and authority. Dean's Teaching Fe</p>	3.00	18	MW 12:00-1:15PM
AS.070.371	01	HS		<p>Forms of Critique in Islam <i>Bush, Joseph Andrew</i> Dean's Teaching Fellowship Course: This course examines concepts and practices of critique brought to bear in (and upon) Muslim societies. Readings classic ethnographic monographs along with primary texts of Muslim critics, we focus on forms of reasoning, ethical practices and aesthetic expressions of political critique.</p>	3.00	25	Th 4:00-6:20PM
AS.100.378	01	HS		<p>Warfare in the Era of the French Revolution <i>Tozzi, Christopher James</i> This course examines the wars associated with the French Revolution and Napoleonic Empire in Europe. Prereq: AS.100.103 or AS.100.104.</p>	3.00	25	TTh 3:00-4:15PM
AS.100.391	01	HS	W	<p>Originalism and the American Constitution: History and Interpretation <i>Gienapp, Jonathan Eric</i></p>	3.00		MW 3:00-4:15PM

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AS.191.208	01	S	W	<p>This course explores both the historical dimension of the constitution's creation as well as the meaning that such knowledge should bring to bear on its subsequent interpretation.</p> <p>American Politics and its Discontents <i>Anfinson, Kellan K</i></p>	3.00	20	TTh 9:00-10:15AM
AS.191.311	01	S		<p>This class explores the gap between the promise and shortcomings of American democracy. Topics include the Puritans, political participation, slavery, wealth and political power, equality, and the national security state.</p> <p>The Public Life of Personal Narrative <i>Gies, Nathan Alan</i></p> <p>Michel Foucault once declared that "Western man has become a confessing animal." In the era of Facebook and YouTube, we seem to be moving closer and closer to this definition, as we divulge increasingly private details about ourselves to increasingly broad publics. The hopes and anxieties that have attached themselves to these new media and technology, however, are not entirely novel. This course departs from a set of questions about contemporary uses of self-exposure, then turns to an examination of theoretical texts and autobiographical materials spanning several centuries, slowly winding our way back to the present. The aim of our journey will be to arrive at a fresh understanding of the political functions of personal narratives in our own time.</p>	3.00	15	MWF 3:00-3:50PM
AS.211.201	01	H		<p>Case Studies: Law in Literature <i>Densky, Doreen</i></p> <p>In law and literature, words and stories play a crucial role. Indeed, the courtroom is often inherently theatrical. What happens when legal trials and questions of law and justice are transformed into literature? What are the possibilities—and risks—of following the long tradition that combines the fields of law and literature as social and cultural forces? Why has this dynamic connection intrigued many writers of modern literature and how do they represent legal issues? This course explores the representation of law and trials in 19th and 20th century German-language literature as well as larger ethical concerns around justice and revenge. Following a theoretical overview, we will discuss drama and prose by, among others, Heinrich von Kleist, Franz Kafka Bertolt Brecht and Peter Weiss—as well as selected stage and filmic adaptations of their works—as "case studies." (Taught in English)</p>	3.00	18	MW 1:30-2:45PM
AS.212.327	01	H	W	<p>Mise et remise en scene: Performing in the 18th Century <i>Sabee, Olivia Maj</i></p> <p>An introduction to texts and performance practices of the eighteenth century French theater, and an exploration of challenges and creative approaches to its restaging today. Course has a performance requirement.</p>	3.00	20	MW 3:00-4:15PM
AS.280.311	01	S		<p>Math, Money and the Mind: Controversies in Medical Decision Making <i>Turnbull, Alison Elizabeth</i></p>	3.00	20	F 1:30-3:50PM

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Dean's Teaching Fellowship Courses

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.280.318	01	S		<p>How do doctors decide what to prescribe? How do clinical studies, elected officials, drug companies, personal beliefs, and insurance companies influence those decisions? This will not be on your MCATs. No prerequisites required. Recommended: previous course in Introductory Statistics or Biostatistics. Deans Teaching Fellowship Course.</p> <p>Food, Nutrition, and Public Health <i>Lee, Seung Hee</i></p> <p>This course explores an array of questions related to nutrition, food access, socioeconomic and demographic factors that affects individuals, communities, and public policy. Students will seek answers through field trips, guest lectures, and discussion seminars. Deans Teaching Fellowship Course.</p>	3.00	25	MW 1:30-2:45PM

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Earth & Planetary Sciences

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.171.321	01	EN		Introduction to Space Science and Technology <i>Moos, Henry Warren</i> Topics include space astronomy, remote observing of the earth, space physics, planetary exploration, human space flight, space environment, orbits, propulsion, spacecraft design, attitude control and communication. Crosslisted by Departments of Earth and Planetary Sciences, Materials Science and Engineering and Mechanical Engineering. Prerequisites: Physics 171.101-102 or similar; Calculus 110.108-109. 3 credits.	3.00	42	TTh 12:00-1:15PM
AS.270.102	01	N		Conversations with the Earth <i>Marsh, Bruce D</i> Freshmen only. Sec. 01: 2 credits (normal participation) Sec. 02: 3 credits (requires term paper) A discussion of current topics on Earth's origin, evolution, and habitability. Topics will include extinction of life from meteorite impact, global warming, ozone depletion, volcanism, ice ages, and catastrophic floods, among others.	2.00	50	TTh 10:30-11:45AM
AS.270.102	02	N		Conversations with the Earth	3.00	50	TTh 10:30-11:45AM
AS.270.103	01	N		Introduction to Global Environmental Change <i>Passey, Benjamin H</i> A broad survey of the Earth as a planet, with emphasis on the processes that control global changes. Topics include: the structure, formation, and evolution of the Earth, the atmosphere, oceans, continents, and biosphere. Special attention is given to present-day issues, such as global climate change, natural hazards, air pollution, resource depletion, human population growth, habitat destruction, and loss of biodiversity. Open to all undergraduates; no pre-requisites.	3.00	110	MWF 11:00-11:50AM
AS.270.205	01	EN		Intro to Geographic Information Systems and Geospatial Analysis <i>Hellen, Stephen William</i> The course provides a broad introduction to the principles and practice of Geographic Information Systems (GIS) and related tools of Geospatial Analysis. Topics will include history of GIS, GIS data structures, data acquisition and merging, database management, spatial analysis, and GIS applications. In addition, students will get hands-on experience working with GIS software. Cross-listed with DOGEE	3.00	25	MW 3:00-4:15PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.270.220	01	N		The Dynamic Earth: An Introduction to Geology <i>Ferry, John</i> Prereqs: 030.101 or 171.101-102 or equivalent Coreq (for EPS Majors): 270.221; optional for others. Basic concepts in geology, including plate tectonics; Earth's internal structure; geologic time; minerals; formation of igneous, sedimentary, and metamorphic rocks; development of faults, folds and earthquakes; geomagnetism.	3.00	30	MWF 11:00-11:50AM
AS.270.221	01	N		Lab Dynamic Earth <i>Olsen, Sakiko</i> Coreq: 270.220 This course is a hands-on learning experience for introductory geological concepts and techniques using geological tools, such as mineral/rock samples, microscopes, and maps. Field trips are its essential part.	2.00	12	W 2:00-4:30PM
AS.270.301	01	N		Geochemical Thermodynamics <i>Ferry, John</i> Prereqs: AS.270.222 or AS.270.341 Principles of chemical thermodynamics. Concept of and criteria for equilibrium. Properties of real fluids and solids. Applications to geologic processes.	3.00	10	TTh 1:30-2:45PM
AS.270.305	01	N		Energy Resources in the Modern World <i>Hinnov, Linda</i> Prerequisite: 270.103, 270.107 or 270.220 This in-depth survey will inform students on the non-renewable and renewable energy resources of the world and the future prospects. Topics include petroleum, natural gas, coal, nuclear, hydroelectric, geothermal, solar, wind, biomass and ocean energy. Global production, distribution, usage and impacts of these resources will be discussed.	3.00	50	MWF 3:00-3:50PM
AS.270.307	01	N		Geoscience Modelling <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	10	MW 1:30-3:30PM
AS.270.308	01	N		Population/Comm Ecology <i>Szlavec, Katalin</i> Prereq: 270.103 or permission of instructor. This course explores the distribution and abundance of organisms and their interactions. Topics include dynamics and regulation of populations, population interactions (competition, predation, mutualism, parasitism, herbivory), biodiversity, organization of equilibrium and non-equilibrium communities, energy flow and nutrient cycles in ecosystems. Field trip included. Cross-listed with Public Health Studies	3.00	30	TTh 10:30-11:45AM
AS.270.311	01	N		Geobiology	3.00	30	MW 3:00-4:15PM

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				<i>Levin, Naomi E</i> Prereq: 270.220 A survey of the interactions between geological and biological processes at and near the Earth's surface, covering topics such as biogeochemistry and nutrient cycles, soil chemistry, biomarkers, archives of paleobiology, and the evolution of life, with an emphasis on terrestrial systems.			
AS.270.318	01	N		Remote Sensing of the Environment <i>Zaitchik, Benjamin</i> This course is an introduction to the use of remote sensing technology to study Earth's physical and biochemical processes. Topics covered include remote sensing of the atmosphere, land and oceans, as well as remote sensing as a tool for policy makers. Also offered as 270.618	4.00	15	MWF 1:30-2:45PM
AS.270.335	01	N		Planets, Life and the Universe <i>Levin, Naomi E</i> This multidisciplinary course explores the origins of life, planets' formation, Earth's evolution, extrasolar planets, habitable zones, life in extreme environments, the search for life in the Universe, space missions and planetary protection.	3.00	30	MWF 11:00-11:50AM
AS.270.378	01	N		Present & Future Climate <i>Zaitchik, Benjamin</i> Prereq: Calculus I & II (110.108-109 and General Physics (171.101-102) Intended for majors who are interested in the science that underlies the current debate on global warming, the focus is on recent observations, and one can glean from model simulations. Meets with 270.641	3.00	20	TTh 1:30-2:45PM
AS.270.425	01	N		Earth & Planetary Fluids <i>Olson, Peter Lee</i> Prereq: Basic Physics, Calculus, and familiarity with ordinary differential equations An introductory course on the properties, flow, and transport characteristics of fluids throughout the Earth and planets. Topics covered include: constitutive relationships, fluid rheology, hydrostatics, dimensional analysis, low Reynolds number flow, porous media, waves, stratified and rotating fluids, plus heat, mass, and tracer transport. Illustrative examples and problems are drawn from the atmosphere, ocean, crust, mantle, and core of the Earth and other Planets. Open to graduate and advanced undergraduate students.	3.00	20	MW 3:00-4:15PM
AS.270.495	01	N	W	Senior Thesis <i>Waugh, Darryn</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 Sr. departmental majors only. Required for department honors.			TBA
AS.280.335	01	N		The Environment and Your Health <i>Trush, Michael A</i>	3.00	200	TTh 4:30-5:45PM

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Earth & Planetary Sciences

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This course surveys the basic concepts underlying environmental health sciences (toxicology, exposure assessment, risk assessment), current public health issues (hazardous waste, water- and food - borne diseases) and emerging global health threats (global warming, built environment, ozone depletion, sustainability). Cross-listed with Earth and Planetary Sciences and Geography and Environmental Engineering – PHS, GECS, and EPS majors have 1st priority for enrollment. Your enrollment may be withdrawn at the discretion of the instructor if you are not a GECS, PHS, or EPS major.

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East Asian Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.010.351	01	H		Asian Art After 1945 <i>Brown, Rebecca Mary</i> This course examines the art and architecture of East, South, and Southeast Asia produced since the mid-twentieth century. We will engage with theoretical, visual, and political developments in the recent art of this region, reading statements by artists and architects, discussing the rising commercial and international profile of contemporary Asian art, and exploring established and emerging art histories of this period. Cross-list with East Asian Studies	3.00	15	TTh 10:30-11:45AM
AS.100.219	01	HS		Chinese Cultural Revolution <i>Meyer-Fong, Tobie</i> This introductory class will explore the Cultural Revolution (1966-1976), Chairman Mao's last attempt to transform China, and a period marked by social upheaval, personal vendettas, violence, and ideological pressure.	3.00		MWF 11:00-11:50AM
AS.100.347	01	HS	W	Early Modern China <i>Rowe, William T</i> The history of China from the 16th to the late 19th centuries.	3.00		TTh 10:30AM-11:45PM
AS.140.354	01	HS		Science, Technology and Society in Modern East Asia <i>Kim, Dong-won</i> The course aims to survey the history of science and technology in East Asian countries—China, Japan and Korea—since the late 19th century. Since Japan was the only nation in East Asia that succeeded in modernizing itself by adopting western science, technology and politics, it will be studied first. The Chinese and Korean cases then will be reviewed from different angles. The course will emphasize the mutual influence between science & technology and society to answer how they became major industrial powers in the 21st century. Cross-listed with East Asian Studies.	3.00	25	TTh 1:30-2:20PM
AS.190.341	01	S	W	Korean Politics <i>Chung, Erin</i> This course introduces students to the historical and institutional foundations of modern South Korean politics. Topics include nationalism, political economic development, civil society, globalization, and ROK-DPRK relations. (CP)	3.00	25	W 1:30-3:50PM
AS.230.415	01	S	W	Social Problems in Contemporary China <i>Andreas, Joel</i> In this course we will examine contemporary Chinese society, looking at economic development, rural transformation, urbanization and migration, labor relations, changes in class structure and family organization, health care, environmental problems, governance, and popular protest. The course is designed for both graduate and undergraduate students. Undergraduates must have already completed a course about China at Hopkins. Cross-listed with East Asian Studies	3.00	25	MW 3:00-4:15PM

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East Asian Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.300.209	01	H		Chinese Literature and Culture of the Ancient and Early Medieval periods <i>Cass, Victoria B</i> TEXTS TO BE READ IN CHINESE: PREREQUISITE: TWO YEARS OF MANDARIN. We will read selections in the original, as well scholarship and criticism concerning the texts. We will consider issues specific to the variety of texts: the social and political context of the "philosophical schools" and writers, the religious and ritual contexts of medical literature and poetry, especially the Elegies of Chu (Chu Ci), the development of literati traditions and the craft of historiography, artistic responses to the collapse of the Han, and the rise of religious literatures of the Six Dynasties. We will introduce aspects of classical language texts: complex form characters, classical Chinese grammar and classical Chinese semantic values. Written assignments, classroom exercises and tests will be based on developing skills in reading and writing classical Chinese; however, tests, discussions, one short paper and one research paper will require interpretation of larger issues pertinent to the texts.	3.00	20	TTh 9:00-10:15AM
AS.360.431	01		W	Senior Thesis Seminar: East Asian Studies <i>Andreas, Joel</i> Starting the 2008-2009 academic year, students may earn honors in the East Asian Studies major by maintaining a 3.7 average in the major and completing a senior thesis by taking the year-long 360.431 Senior Thesis Seminar: East Asian Studies.	3.00	30	T 1:30-3:20PM
AS.373.111	01			First Year Heritage Chinese <i>Lievens, Liman</i> This course is designed for students who were raised in an environment in which Chinese is spoken by parents or guardians at home and for those who are familiar with the language and possess native-like abilities in comprehension and speaking. The course therefore focuses on reading and writing (including the correct use of grammar). Cross-listed with East Asian Studies	3.00	16	MWF 11:00-11:50AM
AS.373.111	02			First Year Heritage Chinese	3.00	16	MWF 12:00-12:50PM
AS.373.115	01			First Year Chinese <i>Li, Lu</i> This course is designed primarily for students who have no prior exposure to Chinese. The objective of the course is to help students build a solid foundation of the four basic skills--listening, speaking, reading, and writing in an interactive and communicative learning environment. The emphasis is on correct pronunciation, accurate tones and mastery of basic grammatical structures. Note: Students with existing demonstrable skills in spoken Chinese should take 373.111-112. No Satisfactory/ Unsatisfactory Cross-listed with East Asian Studies	4.50	16	MTWThF 9:00-9:50AM
AS.373.115	02			First Year Chinese	4.50	16	MWF 11:00-11:50AM; TTh 9:00-9:50AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.373.115	03			First Year Chinese	4.50	16	TTh 3:00-3:50PM; MWF 12:00-12:50PM
AS.373.115	04			First Year Chinese	4.50	16	MTWThF 3:00-3:50PM
AS.373.211	01	H		Second Year Heritage Chinese <i>Chen, Aiguo</i> This course is designed for students who finished 373.112 with C+ and above (or equivalent). Students in this course possess native-like abilities in comprehension and speaking. The course focuses on reading and writing. Cross-listed with East Asian Studies	3.00	16	MWF 11:00-11:50AM
AS.373.211	02	H		Second Year Heritage Chinese	3.00	16	MWF 12:00-12:50PM
AS.373.215	01	H		Second Year Chinese <i>Chen, Aiguo</i> Consolidation of the foundation that students have laid in their first year of study and continued drill and practice in the spoken language, with continued expansion of reading and writing vocabulary and sentence patterns. Students will work with both simplified and traditional characters. Note: Students who have native-like abilities in comprehension and speaking should take 373.211-212. Cross-listed with East Asian Studies	4.50	16	MWF 9:00-9:50AM; TTh 12:00-12:50PM
AS.373.215	02	H		Second Year Chinese	4.50	16	MWF 11:00-11:50AM; TTh 3:00-3:50PM
AS.373.215	03	H		Second Year Chinese	4.50	16	MWF 12:00-12:50PM; TTh 3:00-3:50PM
AS.373.313	01	H		Third Year Heritage Chinese <i>Chen, Aiguo</i> This course is designed for those who have already taken 373.212 or equivalent. Students need to have native-level fluency in speaking and understanding Chinese. The course focuses on reading and writing. In addition to the textbooks, downloaded articles on current affairs may also be introduced on a regular basis. Cross-listed with East Asian Studies	3.00	16	MWF 10:00-10:50AM
AS.373.315	01	H		Third Year Chinese <i>Lievens, Liman</i> Prereq: 373.216 or equivalent This two-semester course consolidates and further expands students' knowledge of grammar and vocabulary and further develops reading ability through work with textbook material and selected modern essays and short stories. Class discussions will be in Chinese insofar as feasible and written assignments will be given. Cross-listed with East Asian Studies	3.00	16	MWF 10:00-10:50AM
AS.373.415	01	H		Fourth Year Chinese <i>Lievens, Liman</i>	3.00	16	MWF 3:00-3:50PM

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East Asian Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: 373.315 This course is designed for students who finished 373.316 with a C+ or above (or equivalent). Readings in modern Chinese prose, including outstanding examples of literature, newspaper articles, etc. Students are supposed to be able to understand most of the readings with the aid of a dictionary, so that class discussion is not focused primarily on detailed explanation of grammar. Discussion, to be conducted in Chinese, will concentrate on the cultural significance of the readings' content. Cross-listed with East Asian Studies			
AS.378.115	01			First Year Japanese	4.50	16	MWF 10:00-10:50AM; TTh 10:00-10:50AM
				<i>Nakao, Makiko Pennington</i> This course is designed for students who have no background or previous knowledge in Japanese. The course consists of lectures on Tuesday/Thursday and conversation classes on Monday/Wednesdays/Fridays. The goal of the course is the simultaneous progression of four skills (speaking, listening, writing, and reading) as well as familiarity with aspects of Japanese culture. By the end of the year, students will have basic speaking and listening comprehension skills, a solid grasp of basic grammar items, reading and writing skills, and a recognition and production of approximately 150 kanji in context. Knowledge of grammar will be expanded significantly in 373.215. No Satisfactory/ Unsatisfactory. Cross-listed with East Asian Studies			
AS.378.115	02			First Year Japanese	4.50	16	TTh 11:00-11:50AM; MWF 11:00-11:50AM
AS.378.115	03			First Year Japanese	4.50	16	MWF 12:00-12:50PM; TTh 11:00-11:50AM
AS.378.215	01	H		Second Year Japanese	4.50	16	MWF 11:00-11:50AM; TTh 10:30-11:20AM
				<i>Katagiri, Satoko</i> Prereq: 378.116 or equivalent Training in spoken and written language, increasing their knowledge of more complex patterns. At completion, students will have a working knowledge of about 250 Kanji. Cross-listed with East Asian Studies			
AS.378.215	02	H		Second Year Japanese	4.50	16	MTWThF 12:00-12:50PM
AS.378.315	01	H		Third Year Japanese	3.00	16	MWF 9:00-9:50AM
				<i>Katagiri, Satoko</i> Prereq: 378.215-216 Emphasis shifts toward reading, while development of oral-aural skills also continues apace. The course presents graded readings in expository prose and requires students to expand their knowledge of Kanji, grammar, and both spoken and written vocabulary. Cross-listed with East Asian Studies			
AS.378.396	01	H		Fundamentals of Japanese Grammar	2.00	20	Th 4:00-5:40PM
				<i>Johnson, Mayumi Yuki</i>			

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East Asian Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: 378.116 or equiv. This course is designed for students who have already studied 1st-year Japanese grammar and wish to develop a thorough knowledge of Japanese grammar in order to advance all aspects of language skills to a higher level. It is also appropriate for graduate students who need to be able to read materials written in Japanese.			
AS.378.415	01	H		Fourth Year Japanese <i>Nakao, Makiko Pennington</i> Prereq: 378.316 or equivalent By using four skills in participatory activities (reading, presentation, and discussion), students will develop reading skills in modern Japanese and deepen and enhance their knowledge on Kanji and Japanese culture. Cross-listed with East Asian Studies	3.00	16	MW 1:30-2:50PM
AS.380.101	01			First Year Korean <i>Kang, Choonwon</i> Introduces the Korean alphabet, hangeul. Covers basic elements of the Korean language, high-frequency words and phrases, including cultural aspects. Focuses on oral fluency reaching Limited Proficiency where one can handle simple daily conversations. No Satisfactory/ Unsatisfactory. Cross-listed with East Asian Studies	3.00	16	MWF 9:00-9:50AM
AS.380.201	01	H		Second Year Korean <i>Kang, Choonwon</i> Prereq: Existing demonstrable skills in spoken Korean Aims for improving oral proficiency and confident control of grammar with vocabulary building and correct spelling intended. Reading materials of Korean people, places, and societies will enhance cultural understanding and awareness. Project due on Korean cities. Cross-listed with East Asian Studies	3.00	16	MWF 10:00-10:50AM
AS.380.301	01	H		Third Year Korean <i>Kang, Choonwon</i> Emphasizes reading literacy in classic and modern Korean prose, from easy essays to difficult short stories. Vocabulary refinement and native-like grasp of grammar explored. Project due on Korean culture. Cross-listed with East Asian Studies	3.00	16	MW 12:00-1:15PM
AS.389.369	01	H		Encountering the Art of East Asia: Museum Display, Theory and Practice <i>Mintz, Robert</i> Students reconsider the exhibition and interpretation of East Asian Art at the Walters Art Museum, developing a pilot installation to suggest a new permanent display. M&S Practicum Course. Class meets at the Walters Art Museum (extended time to allow for travel). Cross-listed with East Asian Studies	3.00	12	Th 2:00-5:00PM

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Economics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.180.101	01	S		Elem of Macroeconomics <i>Maccini, Louis J</i> Prereq: Basic facility with graphs and algebra - An introduction to the economic system and economic analysis, with emphasis on total national income and output, employment, the price level and inflation, money, the government budget, the national debt, and interest rates. The role of public policy. Applications of economic analysis to government and personal decisions.	3.00	18	F 9:00-9:50AM; MW 9:00-9:50AM
AS.180.101	02	S		Elem of Macroeconomics	3.00	18	F 9:00-9:50AM; MW 9:00-9:50AM
AS.180.101	03	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; F 9:00-9:50AM
AS.180.101	04	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; F 9:00-9:50AM
AS.180.101	05	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; F 9:00-9:50AM
AS.180.101	06	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; F 9:00-9:50AM
AS.180.101	07	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; F 9:00-9:50AM
AS.180.101	08	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 9:00-9:50AM
AS.180.101	09	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 9:00-9:50AM
AS.180.101	10	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 9:00-9:50AM
AS.180.101	11	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 9:00-9:50AM
AS.180.101	12	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 9:00-9:50AM
AS.180.101	13	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 10:30-11:20AM
AS.180.101	14	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 10:30-11:20AM
AS.180.101	15	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 10:30-11:20AM
AS.180.101	16	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 10:30-11:20AM
AS.180.101	17	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 10:30-11:20AM
AS.180.101	18	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 12:00-12:50PM
AS.180.101	19	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 12:00-12:50PM
AS.180.101	20	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 12:00-12:50PM
AS.180.101	21	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 12:00-12:50PM
AS.180.101	22	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 12:00-12:50PM
AS.180.101	23	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; F 9:00-9:50AM
AS.180.101	24	S		Elem of Macroeconomics	3.00	18	MW 9:00-9:50AM; Th 12:00-12:50PM
AS.180.228	01	S		Economic Development <i>Gersovitz, Mark</i> Prereq: 180.101-102 Diagnostic test on Elements of Economics is required to be taken in the second week.	3.00	33	MW 1:30-2:45PM; W 3:00-3:50PM
AS.180.228	02	S		Economic Development	3.00	33	MW 12:00-1:15PM; W 4:00-4:50PM
AS.180.241	01	S		International Trade <i>Bertrand, Trent</i> Prereq: 180.101-102	3.00	150	TTh 12:00-1:15PM
AS.180.252	01	S	W	Economics of Discrimination <i>Morgan, Barbara Anne</i>	3.00	30	T 1:30-3:50PM

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Economics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: 180.102 or equivalent 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.			
AS.180.261	01	S		Monetary Analysis <i>Ball, Laurence M</i> Prereq: AS.180.101-102 - This course analyzes the financial and monetary system of the U.S. economy and the design and implementation of U.S. monetary policy. Among other topics, we will examine the role of banks in the economy, the term structure of interest rates, the stock market, the supply of money, the role of the Federal Reserve in the economy, the objectives of monetary policy in the United States and current monetary policy practice.	3.00	125	TTh 9:00-10:15AM
AS.180.263	01	S		Corporate Finance <i>Duffee, Gregory R</i> Prereq: 180.101 and 180.102 This course is an introduction to the financial management of a corporation. Students study the following broad questions. How should a firm decide whether to invest in a new project? How much debt and equity should a firm use to finance its activities? How should a firm pay its investors? How do taxes affect a firm's investment and financing decisions? What determines the value of a firm? The emphasis throughout the course is on the economic principles that underlie answers to these questions.	3.00	30	WF 12:00-1:15PM
AS.180.289	01	S		Economics of Health <i>Bishai, David M</i> Prereq: 180.102 Application of economic concepts and analysis to the health services system. Review of empirical studies of demand for health services, behavior of providers, and relationship of health services to population health levels. Discussion of current policy issues relating to financing and and resource allocation. Cross-listed with Public Health Studies	3.00	100	M 3:30-5:50PM
AS.180.301	01	S		Microeconomic Theory <i>Khan, M Ali</i> Recommended Prereq: 180.101-102, and (110.106 or equivalent) or Perm. Req'd	4.50	45	MW 12:00-1:15PM; F 9:00-9:50AM
AS.180.301	02	S		Microeconomic Theory <i>Karni, Edi</i>	4.50	45	MW 12:00-1:15PM; F 10:00-10:50AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.180.301	03	S		Microeconomic Theory	4.50	45	MW 12:00-1:15PM; F 11:00-11:50AM
AS.180.301	04	S		Microeconomic Theory	4.50	45	MW 12:00-1:15PM; F 1:30-2:20PM
AS.180.303	01	S		The Global Finance Crisis <i>Jeanne, Olivier</i> Prereqs: 180.301 and 302. The course will first review the main causes of the crisis in financial regulation, monetary policy, as well as global financial imbalances. The prospects for economic recovery and the current challenges to fiscal and monetary policies will then be discussed. The third part of the course will focus on the long-run implications of the crisis for economic policy. The course will rely on mathematical modeling of key microeconomic and macroeconomic aspects of the crisis, in particular in the areas of banking and monetary policy.	3.00	29	TTh 12:00-1:15PM
AS.180.310	01	S	W	Economics of Antitrust <i>Hamilton, Bruce W</i> Perm. Req'd. Prereq: 180.301-Microeconomic Theory This course explores the economic rationale for, and consequence of, antitrust laws. In addition to economic analysis we will study landmark antitrust cases.	3.00	20	Th 1:30-3:50PM
AS.180.334	01	QS		Econometrics <i>Krasnokutskaya, Elena</i> Prereqs: Statistical Analysis (550.111 or 550.420); Pre- or Co-requisites 180.301 AND 180.302. Introduction to the methods of estimation in economic research. The first part of the course develops the primary method employed in economic research, the method of least squares. This is followed by an investigation of the performance of the method in a variety of important situations. The development of a way to handle many of the situations in which ordinary least squares is not useful, the method of instrumental variables, concludes the course.	3.00	30	M 3:00-5:30PM; F 3:00-3:50PM
AS.180.334	02	QS		Econometrics <i>Lake, James Wesley</i>	3.00	37	M 1:30-3:20PM; Th 1:30-2:20PM
AS.180.355	01	S		Economics of Poverty and Inequality <i>Moffitt, Robert A</i> Covers the theories and evidence developed by economist for the analysis of income inequality and poverty. The first half of the course discusses economic theories of inequality as well as motivations for why society should care about inequality and poverty, and also covers concepts and detailed statistical measures. The second half of the course considers theories and evidence for different explanations: human capital, intergenerational transmissions, neighborhoods, family structure and discrimination. Solutions and government policies to reduce inequality and poverty are discussed. Prerequisites are: Microeconomic theory (180.301). Knowledge of statistical analysis up to the level of simple regression is also helpful.	3.00	30	TTh 10:30-11:45AM
AS.180.367	01	S		Investment-Portfolio Mgt	3.00	60	TTh 10:30-11:45AM

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				<i>Wright, Jonathan H</i> Investment securities and their markets, especially the stock market. The relation between expected return and risk. The determination of security prices. Financial portfolio selection. The assessment of performance of managed portfolios.			
AS.180.371	01	S		Industrial Organization <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	20	MW 1:30-2:45PM
AS.180.373	01	S		Corporate Restructuring <i>Eraslan, Hulya</i> The objective of this course is to familiarize students with financial, legal and strategic issues associated with corporate restructuring process. Main focus of the course is on the restructuring of financially distressed firms. The course surveys a variety of restructuring methods (out-of-court workouts, exchange offers, prepackaged bankruptcies, Chapter 11 bankruptcies, insolvency practices in other countries) available to troubled firms. A small portion of the course is concerned with restructuring employee contracts and equity claims (equity carve-outs, spin-offs, tracking stock). Prerequisite: 180.301	3.00	25	Th 1:30-3:50PM
EN.570.428	01	S	W	Problems in Applied Economics <i>Hanke, Steve H</i> Prerequisites 180.101-102 – Permission Required. This is a research course with an internship component. The research component is presented during a weekly (1 hour) seminar. It focuses on the development and application of the Hanke-Guttridge valuation model. Students apply the model to value publically traded companies. The internship component is given in conjunction with private businesses and financial institutions, governmental entities, and economic research institutes.	3.00	29	TBA

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AS.060.100	01	H	W	Intro Expository Writing <i>Kain, Patricia</i> Freshmen only. This course introduces 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 limited to 10 students and are organized around three major writing assignments. Freshmen only.	3.00	10	MWF 11:00-11:50AM
AS.060.100	02	H	W	Intro Expository Writing <i>Evans, William</i>	3.00	10	MW 12:00-1:15PM
AS.060.100	03	H	W	Intro Expository Writing	3.00	10	MW 1:30-2:45PM
AS.060.100	04	H	W	Intro Expository Writing <i>Brodsky, Anne-Elizabeth Murdy</i>	3.00	10	TTh 10:30-11:45AM
AS.060.100	05	H	W	Intro Expository Writing	3.00	10	TTh 12:00-1:15PM
AS.060.107	01	H	W	Introduction to Literary Study <i>Thompson, Mark C</i> This course will introduce the student to modes, methods and practices of literary criticism. Through readings of representative works in basic literary forms such as the novel, the poem, the essay, etc; we will examine how to reflect and write about literature critically.	3.00	20	TTh 10:30-11:45AM
AS.060.107	02	H	W	Introduction to Literary Study <i>Staff</i>	3.00	20	TTh 12:00-1:15PM
AS.060.107	03	H	W	Introduction to Literary Study <i>Sundquist, Eric J</i>	3.00	20	WF 1:30-2:45PM
AS.060.113	01	H	W	Expository Writing <i>Staff</i> No Seniors. This course teaches students the concepts and strategies of academic argument. Students learn to analyze and evaluate sources, to develop their thinking with evidence, and to use analysis to write clear and persuasive arguments. Each section focuses on its own intellectually stimulating topic or theme, but the central subject of all sections is using analysis to create arguments. No seniors. (15 per section) Please note: Each course has a different topic. To check individual course descriptions, go to the EWP web site: http://krieger.jhu.edu/ewp	3.00	15	MWF 9:00-9:50AM
AS.060.113	02	H	W	Expository Writing	3.00	15	MWF 10:00-10:50AM
AS.060.113	03	H	W	Expository Writing	3.00	15	MWF 10:00-10:50AM
AS.060.113	04	H	W	Expository Writing	3.00	15	MWF 10:00-10:50AM
AS.060.113	05	H	W	Expository Writing	3.00	15	MWF 11:00-11:50AM
AS.060.113	06	H	W	Expository Writing	3.00	15	MWF 11:00-11:50AM
AS.060.113	07	H	W	Expository Writing	3.00	15	MWF 11:00-11:50AM
AS.060.113	08	H	W	Expository Writing	3.00	15	MW 12:00-1:15PM
AS.060.113	09	H	W	Expository Writing	3.00	15	MW 12:00-1:15PM
AS.060.113	10	H	W	Expository Writing	3.00	15	MW 1:30-2:45PM
AS.060.113	11	H	W	Expository Writing	3.00	15	MW 1:30-2:45PM
AS.060.113	12	H	W	Expository Writing	3.00	15	MW 3:00-4:15PM
AS.060.113	13	H	W	Expository Writing	3.00	15	TTh 9:00-10:15AM
AS.060.113	14	H	W	Expository Writing	3.00	15	TTh 9:00-10:15AM

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AS.060.113	15	H	W	Expository Writing	3.00	15	TTh 10:30-11:45AM
AS.060.113	16	H	W	Expository Writing	3.00	15	TTh 10:30-11:45AM
AS.060.113	17	H	W	Expository Writing	3.00	15	TTh 10:30-11:45AM
AS.060.113	18	H	W	Expository Writing	3.00	15	TTh 12:00-1:15PM
AS.060.113	19	H	W	Expository Writing	3.00	15	TTh 12:00-1:15PM
AS.060.113	20	H	W	Expository Writing	3.00	15	TTh 12:00-1:15PM
AS.060.113	21	H	W	Expository Writing	3.00	15	TTh 1:30-2:45PM
AS.060.113	22	H	W	Expository Writing	3.00	15	TTh 1:30-2:45PM
AS.060.113	23	H	W	Expository Writing	3.00	15	TTh 3:00-4:15PM
AS.060.125	01	H	W	Nineteenth-Century American Experimental Writing <i>Cameron, Sharon</i> Emerson famously exalted the power of the individual self: "To believe your own thought, to believe what is true for you is true for all men—that is genius." Melville regarded such hubristic intoxication with "untraditional and independent thinking" as the condition of tragedy. Emily Dickinson's poems neither extol the "greatness" of the individual nor decry his limitations. Rather her poems invent a language for experiences so solitary and apparently incommunicable that she called them "inner than the bone." We shall examine the representations of self in the genre-bending writing of these three nineteenth-century giants—writing that forever redefined the essay, the novel, and the poem	3.00	18	F 1:30-3:50PM
AS.060.157	01	H	W	J.R.R. Tolkien and the Contemporary Fantasy Epic <i>Fessenbecker, Patrick</i> J.R.R. Tolkien's "The Lord of The Rings" trilogy can honestly be said to have initiated a new genre: a novel-based epic narrative set in a fantasy world. Since Tolkien's works were first published in the 1940's, there has been a massive flowering in similar works, as later authors expanded and developed the notion of the multi-volume fantasy narrative. However, these later texts are also, importantly, creative responses to the models Tolkien developed. In this course, we are going to study this genre, identify its history and formal features, and consider the nature of fantasy fiction more generally. What do authors hope to achieve by setting plots and characters in a completely imagined world? What narrative possibilities does such a decision enable, and what possibilities does it foreclose? Does the fantasy genre mask certain ideologies, and how can we uncover them? Authors will include Tolkien, Robert Jordan, George R.R. Martin, and Steven King, and may also include selections from Brandon Sanderson, David Eddings, Patrick Rothfuss, Ursula K. LeGuin, and Elizabeth Moon. This course is for non-majors. (Limit 18)	3.00	18	TTh 9:00-10:15AM
AS.060.160	01	H	W	The Scientist in Literature <i>Vinter, Magdalena Lucy</i>	3.00	18	MW 1:30-2:45PM

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				Visionary geniuses, cold-blooded technicians, evil mad men, and socially awkward nerds: scientists appear in many guises in fiction and popular culture. Where do these stereotypes come from, and what do they tell us about the place of science in society? This course traces representations of scientists in literature from the sixteenth century to the present. We'll look at how ideas about what constitutes science change over time, and how literature is used to understand, to shape and to contest the ethical and social implications of scientific discovery. Possible texts include Christopher Marlowe's "Doctor Faustus", Mary Shelley's "Frankenstein" and Robert Louis Stevenson's "The Strange Case of Dr Jekyll and Mr Hyde". This class is for non-majors.			
AS.060.207	01	H		Shakespeare <i>Daniel, Andrew</i>	3.00	20	MWF 10:00-10:50AM
				Reading the major comedies, histories and tragedies alongside the narrative poem "Venus and Adonis" and the sonnets, this survey course considers Shakespeare's hybrid career as poet and playwright. Pre 1800 course.			
AS.060.207	02	H		Shakespeare	3.00	20	MWF 10:00-10:50AM
AS.060.207	03	H		Shakespeare	3.00	20	MWF 10:00-10:50AM
AS.060.207	04	H		Shakespeare	3.00	20	MWF 10:00-10:50AM
AS.060.219	01	H		American Literature to 1865 <i>Hickman, Jared W</i>	3.00	20	MWF 11:00-11:50AM
				A survey course of American literature from contact to the Civil War.			
AS.060.219	02	H		American Literature to 1865	3.00	20	MWF 11:00-11:50AM
AS.060.219	03	H		American Literature to 1865	3.00	20	MWF 11:00-11:50AM
AS.060.276	01	H	W	Modern Drama <i>Day, Robert D.</i>	3.00	18	MWF 9:00-9:50AM
				Introduction to drama of the late-19th and 20th centuries, with an emphasis on its ideological and political contexts. Many facets of what we call "modernity" find vivid and trenchant expression in dramatic literature: urbanization, industrialization, migration, war, democracy, capitalism, fascism, communism, and nationalism, to name a few. We will read a selection of plays that ask timely questions about the limits of human subjectivity and integrity in a modern, often dehumanizing world. From the demise of the Russian aristocracy, to the aspirations of the middle class, to totalitarian conquest of Europe, to apartheid in South Africa, to the AIDS epidemic in the United States-this course examines how modern drama is shaped by and responds to social and political change. We will also explore how major literary and artistic debates, movements, and theories have motivated dramatic literature's changing forms and themes. Secondary readings by the playwrights themselves, in addition to Georg Lukacs, T.S. Eliot, Raymond Williams, Eric Bentley, and more recent scholars and critics.			
AS.060.278	01	H	W	Social Climbers and Charlatans in American Literature <i>Tye, Douglas Allen</i>	3.00	18	MW 12:00-1:15PM

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				<p>"It's good to be shifty in a new country," declares Johnson Hooper's swindling vagabond Simon Suggs. The ability to speak in many voices—to play many roles—is one key facet of the rags-to-riches American ideal of not only making something of one's self, but of making one's self. But how much social mobility or personal fluidity is too much? In this course, we'll consider the problem of fashioning a self that is both flexible and authentic, both capacious and individual, as it is represented in a broad swath of American literature. We'll begin with Benjamin Franklin's Autobiography, in which Franklin reimagines his life into an intricate web of fact and fabrication. From there, we'll explore the Transcendentalist ideal of the "Moral Sense," in the form of Emersonian self-reliance and Thoreau's revolutionary militancy, and its dark side in Poe's "Imp of the Perverse." After this, we'll account for the great showman P.T. Barnum, who splits the difference between legitimate businessman and devious swindler. We'll see what happens when, in order to make yourself, you first have to steal yourself in "The Narrative of the Life of Frederick Douglass, American Slave". In Mark Twain's "Pudd'nhead Wilson" and Nella Larsen's "Passing", we'll investigate how, why, and with what consequences black Americans might try to pass for white. As the semester winds down, we'll reconsider the rise and fall of Fitzgerald's Jay Gatsby, the mobster made good (if only for a while), before ending with Nathanael West's "Miss Lonelyhearts", a dark comedy about a man who writes an advice column as a woman. The course will explore some of the fine lines—between honest art and heinous hoaxing, belief and delusion, entrepreneurship and charlatantry—relentlessly worked over in American literature since the nation's inception. Throughout, we'll take stock of the possibilities and pitfalls lurking in the seemingly incompatible goals of novelty and authenticity, fluidity and authority. Dean's Teaching Fe</p>			
AS.060.283	01	H	W	Advertising and Modernism <i>Wedekind, Kara</i>	3.00	18	TTh 9:00-10:15AM

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				<p>To say that certain modernist authors were skeptical about the growing power of advertising would be an understatement. H.G. Wells described it as a form of "legalized lying," while F. Scott Fitzgerald quipped that "its constructive contribution to humanity is exactly minus zero." Such views on marketing were hardly uncommon, as many modernist authors saw advertising as an enemy to true artistic creation. The modernist response to this form of popular culture, however, was not uniformly hostile. Avant-garde artists, who rejected mainstream commercial values, often turned to newspaper ads and posters for the material that they would repurpose for their own work. In the stream of consciousness epic "Ulysses", the protagonist works in advertising and his eye is often drawn to the notices and promotions that cover the streets of Dublin. Virginia Woolf even pauses her narrative to depict a fictional crowd of Londoners contemplating an airplane writing an ad in smoke letters. This course will explore the variety of stances toward advertising in the modernist period, as well as provide historical context. Novels include: "Sister Carrie", "The Ambassadors", "Mrs. Dalloway", "Turnabout", as well as selections from "Ulysses". Critical sources include: Benjamin, Adorno, Williams, Moretti, Brown, and Butler.</p>			
AS.060.306	01	H	W	<p>The Large Novel <i>Rosenthal, Jesse Karl</i></p> <p>This course will look at novels that are not only large in size, but which also think about the meaning and methods of trying to capture huge segments of the world into a piece of art. How much can be fit into a novel? What is gained and what is lost? How large is too large? We will read Charles Dickens's "Bleak House", Herman Melville's "Moby Dick", Lev Tolstoy's "War and Peace", and Thomas Pynchon's "Gravity's Rainbow".</p>	3.00	18	M 2:30-4:50PM
AS.060.307	01	H	W	<p>Training\Writing\Consulting <i>Staff</i></p> <p>A one credit course for those undergrads who have been nominated as Writing Center tutors. Permission required.</p>	1.00	10	T 5:00-6:50PM
AS.060.326	01	H	W	<p>Spectral Evidence <i>Hickman, Jared W</i></p>	3.00	18	T 2:30-4:50PM

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				Rising to its greatest prominence during the 1692 Salem Witch Trials, "spectral evidence" refers to a category of evidence that involves supernatural claims--dreams, visions, etc. Even in 1692 within the largely homogeneous Euro-American Puritan community, the category raised profound questions about what should count as evidence in legal settings, and, more broadly, about the ontological status of the supernatural--to what extent are certain experiences of the supernatural mediated by private subjectivity and thus difficult to transmit or even illegible in the public sphere? These questions only intensify in cross-cultural contexts like the colonial Americas and postcolonial Australia and South Africa and often get reconfigured into debates about the limits of cultural relativism. This course will examine historical, literary, and filmic sites at which the question of "spectral evidence" comes into play. Texts may include: documents pertaining to the Salem Witch trials; Inquisition records; the novels of Charles Brockden Brown; Nathaniel Hawthorne, "The Scarlet Letter" and other fiction; Edgar Allan Poe, "The Tell-Tale Heart," "The Pit and the Pendulum," and other fiction; the spiritualist medium Fox sisters' confessions; Mark Twain, "Personal Recollections of Joan of Arc"; Arthur Miller, "The Crucible"; Peter Weir, dir., The Last Wave; Gavin Hood, dir., A Reasonable Man; Scott Derrickson, dir., The Exorcism of Emily Rose. Pre-requisite: ILS, 200-level, or instructor approval.			
AS.060.330	01	H	W	The Contemporary Novel <i>Nealon, Christopher</i> This course will survey a variety of novels written since 2000, from literary novels to best-sellers, both in English and in translation (into English). We'll pay attention to formal and aesthetic questions -- what counts as a good story, at this point in history? -- and we'll hone our skills in recognizing narrative patterns and motifs across different fictional styles. Authors likely to be considered include Arundhati Roy, Junot Diaz, Roberto Bolaño, Muriel Barbery, Marlene van Niekerke, David Mitchell, and Amitav Ghosh.	3.00	18	T 2:30-4:50PM
AS.060.358	01	H	W	Victorian Realisms <i>Rosenthal, Jesse Karl</i>	3.00		W 1:30-3:50PM
AS.060.375	01	H	W	Literature of the Holocaust <i>Sundquist, Eric J</i>	3.00	18	Th 1:30-3:50PM

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				The course will focus on reactions to, and representations of, the Holocaust in European, Israeli, and American literature. In moving from the initial response of eyewitness testimony, through the emergence of fiction as one means to test the adequacy of historical accounts and memoirs, and on to more recent reflections on the problem of adequately "remembering" the event, we will consider how the Nazi genocide has entered into world consciousness. What does it mean to have an artistic or aesthetic response to such an event? Why has the Holocaust assumed such a significant role in contemporary life that there are entire genres of literature and film devoted to it? Readings will include: Wiesel, "Night"; Borowski, "This Way for the Gas, Ladies and Gentlemen"; Delbo, "Auschwitz and After"; Kosinski, "The Painted Bird"; Wallant, "The Pawnbroker"; Grossman, "See Under: Love"; Ozick, "The Shawl"; Epstein, "King of the Jews"; Roth, "The Plot against America"; and Semel, "And the Rat Laughed". Cross-listed with Jewish Studies.			
AS.060.378	01	H	W	Race and Psychoanalysis <i>Neutill, Rani</i>	3.00	18	Th 1:30-3:50PM
				Race is a powerful means of understanding identity, fueling fantasies, desires and differences in existence. If race is no longer considered a biological determinant, how do we comprehend its persistence in structuring identity? How do we translate the racial into the psychic? How do racial and ethnic differences facilitate social and psychic dynamics? This course will consider a cross-cultural selection of literary texts and films in combination with short readings from psychoanalytic theory in order to uncover some of the meanings of "race" and its roles in the construction of identity. Topics will include: "race" as fantasy, speaking historical trauma, racial melancholia / mourning, and racial fetishism.			
AS.214.479	01	H	W	Dante's Journey through the Afterlife: The Divine Comedy <i>Stephens, Walter E</i>	3.00	25	T 2:00-4:20PM

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				Dante's Divina commedia is universally recognized as the greatest long poem of the Middle Ages; many consider it the greatest poem of all time. We will study the entire Commedia critically in terms of broad categories: (1) What it reveals about the worldview of late-medieval Christian Europe; (2) its internal thematic cohesion and formal symmetries, or how it works as poetry; (3) its critique of the intellectual cultures of pagan antiquity and medieval Christianity; (4) its presentation of political and social issues; (5) its influence on European intellectual history; (6) the interpretive problems it presents to modern readers and translators; (7) the challenges Dante faced in understanding and summarizing the whole of cosmology, world history and culture. We will read and discuss Commedia in English, in editions containing the Italian text on facing pages: students will be expected to refer to the original Italian regularly and familiarize themselves with key terms and concepts even if they do not speak Italian. Italian majors will meet once a week for discussions in Italian and will submit all written work in Italian, for major credit.			
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i>	3.00	15	TTh 10:30-11:45AM
				Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Machiavelli, Shakespeare, Flaubert, Douglass, and Woolf, as well as musical compositions by Bach and Ravel.			
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	03	H	W	Great Books at Hopkins <i>Coleman, James</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	04	H	W	Great Books at Hopkins <i>Talle, Andrew</i>	3.00	15	TTh 10:30-11:45AM

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Film and Media Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.061.140	01	H		Introduction to Cinema, 1892-1941 <i>Ward, Meredith C</i> This course teaches students the fundamentals of film analysis as well as leading students through the first half of our first century of movies. We will focus on the basic elements of film form, and their manipulation and use in films across the globe from the turn of the century until the start of World War II. Movements discussed include the silent comedy of Charles Chaplin and Buster Keaton, German Expressionism, Surrealism, Soviet Montage, French poetic realism, Pre-Production Code Cinema, and, of course, classical Hollywood. Screenings are required for this course.	3.00	50	MW 12:00-1:15PM; F 12:00-2:30PM; T 7:30-10:00PM
AS.061.145	01	H		Intro to Visual Language <i>Yasinsky, Karen</i> Introduction to the aesthetics and meaning of moving images. Films and videos art (by Murneau, Bresson, Lynch, etc.) will be screened to analyze picture, sound, editing. With video project. \$40 lab fee.	3.00	8	M 3:00-5:20PM
AS.061.150	01	H		Introduction to Film Production <i>Porterfield, Matthew</i> This course introduces students to the basic considerations of shooting 16mm film. Through lectures and practice, the course approaches the basics of light meter readings, basic camera operations and shot composition. Each week students, working in groups of three, shoot film exercises providing a general overview of film production. For the final project, each student shoots and edits (physical edits) a short (3-5 minutes) film on 16mm black and white reversal film stock.	3.00	12	Th 12:00-2:20PM
AS.061.160	01	H		Lights, Camera, Action: Hollywood Film <i>Bucknell, Lucy</i> An introduction to Hollywood film and the basics of film analysis. Classic and contemporary films considered. Emphasis on discussion over lecture. Not prior experience in film studies required. The course will meet on Sept. 21, Sept. 28, Oct. 5, and Oct. 12 and will be graded pass/fail. For more information, please see the Film and Media Studies Program website.	1.00	40	W 4:30-7:20PM
AS.061.202	01	H		Personal Filmmaking: The Essay Film <i>Mann, John</i> In this course students will consider variations of the personal essay film, wherein filmmakers explore their own experiences, both real and imagined. These films constitute dialogues between filmmaker and world using subjective approaches, including but not limited to first person narration. Students will make a short (4-6 minutes) 16mm film from original and possibly archival footage, their own filmic essays based upon personal experiences. We will look at the works of several essay filmmakers including Ross McElwee, Jean Luc Godard, Chris Marker and Su Friedrich.	3.00	9	M 12:00-2:30PM
AS.061.244	01	H		Film Genres	3.00	15	W 1:30-3:50PM

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Film and Media Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Bucknell, Lucy</i> \$40 lab fee A survey of American genres: the Western, the Gangster Film, Science Fiction, Horror, Comedy, Melodrama, and others. Twice-weekly screenings. Short film responses and a final paper, 10pp.			
AS.061.308	01	H		Experimental Video <i>Yasinsky, Karen</i> An introduction to experimental video from the 1960s to present. Understanding "experimental" as an operative to change existing forms of video using aesthetic and ideological innovation. With four video projects. \$40 lab fee. Prerequisites AS.031.145 or AS.061.150	3.00	9	T 1:30-3:50PM
AS.061.335	01	H		Monster Films <i>Bucknell, Lucy</i> Monsters and misfits in the Hollywood film including King Kong, Hannibal Lecter, and the Great White Shark.	3.00	15	M 3:00-5:20PM
AS.061.358	01	H		Directing Actors <i>Porterfield, Matthew</i> This class, intended for students of film, will explore the theory, practice, and ethics of directing actors for the screen. Texts, screenings, production and performance exercises will be combined over the course of the semester. The goal of this workshop is to inspire young directors and enhance their ability to communicate with their cast with confidence and empathy.	3.00	9	Th 4:00-6:50PM
AS.061.361	01	H		Documentary Film Theory <i>Mann, John</i> This course explores contemporary documentaries with an emphasis on theoretical implications suggested by their work. We will look at a variety of philosophical and political issues emerging from these films.	3.00	15	F 1:30-3:50PM
AS.061.365	01	H	W	The New Hollywood: American Films of the Seventies <i>DeLiberio, Linda</i>	3.00	12	T 4:00-6:50PM
AS.061.391	01	H	W	Love and Film <i>Ward, Meredith C</i> This course discusses understandings of "love" from Plato's Symposium to the present and explores the way that film has dealt with the concept. Interdisciplinary readings are paired with weekly screenings.	3.00	15	Th 1:30-3:50PM
AS.061.396	01	H		Modern Paris on Film <i>Mason, Laura</i> This course uses French film to examine the history of twentieth-century Paris. We will consider how filmmakers interpreted the social, political, and technological transformations that shaped Paris in the modern era, treating movies as expressions of change and means by which filmmakers comment on it. Taught in English. Cross-listed with History. Lecture W 1:30-4 PM, Screening M 7:30-10 PM.	3.00	18	MW 1:30-2:50PM
AS.061.440	01	H		Sr Project-Film Product <i>Mann, John</i>	3.00	15	TBA

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				Perm. Req'd. Senior students develop and complete a short 16mm film.			
AS.061.440	02	H		Sr Project-Film Product <i>Porterfield, Matthew</i>	3.00	15	TBA
AS.211.375	01	H		Documentary Production Practicum: "The Cure:" the History and Culture of Breast Cancer <i>Wegenstein, Bernadette</i> This class will accompany Bernadette Wegenstein during some months of producing her feature documentary "The Cure" on the history and culture of breast cancer. It will be a hands on experience with director/producer Bernadette Wegenstein, editor/producer Patrick Wright and cinematographer Allen Moore filming at the GBMC's Breast Care clinic, the Halsted Medical Archives, and some other Baltimore locations. This class will meet once a week, but some weeks the class will consist in the hands-on experience on the field rather than the actual class meeting.	3.00	8	T 4:00-6:20PM
AS.300.337	01	H	W	Israeli and Palestinian Cinema <i>Stahl, Neta</i> Palestinian and Israeli cinemas have emerged side by side, each depicting its Other as a deceiving mirror of its own self. This course will explore the different images of these Others in both cinemas and study their political, historical and sociological contexts.	3.00	35	T 1:30-3:50PM
AS.300.367	01	H	W	Seeing Like a Woman <i>Eakin Moss, Anne</i> This seminar examines the problems of female desire, subjectivity, spectatorship and performance in fiction, poetry, memoir and film from a variety of cultures and theoretical perspectives. Readings include: Leo Tolstoy's "Family Happiness," Virginia Woolf's Orlando, Nella Larsen's Passing; Poetry by Moore, Bishop, Plath, Akhmatova, Tsvetaeva and Szyborska. Films by Deren, Hitchcock, Campion, Akerman, Varda, Denis.	3.00	15	Th 1:30-3:50PM

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German & Romance Languages & Literatures

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.210.101	01			French Elements I <i>Staff</i> Prereq: No previous knowledge of French or webcape score of 0-250 (online placement exam link available at grill.jhu.edu) - May not be taken Satisfactory / Unsatisfactory. - Provides a multi-faceted approach to teaching language and culture to the novice French student. The emphasis of the course is an aural-oral proficiency without neglecting the other skills of grammar structure, phonetics, reading, and writing; must complete both semesters successfully in order to receive credit. May not be taken on a satisfactory/unsatisfactory basis. Course Coordinator: Claude Guillemard	4.00	17	MWF 9:00-9:50AM; T 9:30-10:20AM
AS.210.101	02			French Elements I	4.00	17	MWF 10:00-10:50AM; T 9:30-10:20AM
AS.210.101	03			French Elements I	4.00	17	MWF 11:00-11:50AM; T 9:30-10:20AM
AS.210.101	04			French Elements I	4.00	17	MWF 12:00-12:50PM; T 9:30-10:20AM
AS.210.111	01			Spanish Elements I <i>Tracy, Michelle</i> Prereq: Appropriate Placement Exam (Webcape) score Development of the four basic language skills of reading, writing, listening and speaking. Extensive use of an online component delivered via Blackboard, sustained class participation, and three hourly exams (no midterm and no final). In order to receive credit for 210.111, 210.112 must also be completed with a passing grade. May not be taken Satisfactory/Unsatisfactory. Course Coordinator: Michelle Tracy	4.00	17	MWF 9:00-9:50AM
AS.210.111	02			Spanish Elements I	4.00	17	MWF 10:00-10:50AM
AS.210.111	03			Spanish Elements I	4.00	17	MWF 11:00-11:50AM
AS.210.111	04			Spanish Elements I	4.00	17	MWF 12:00-12:50PM
AS.210.111	05			Spanish Elements I	4.00	17	MWF 12:00-12:50PM
AS.210.112	01			Spanish Elements II <i>Tracy, Michelle</i> Prereq: 210.111 or appropriate Placement Exam (Webcape) score Continuation of Spanish Elements I. Further development of the four basic language skills of reading, writing, listening and speaking. Extensive use of an online component delivered via Blackboard, sustained class participation, and three hourly exams (no midterm and no final). May not be taken Satisfactory/ Unsatisfactory. No new enrollments for this course permitted after Monday, September 10th. Course Coordinator: Michelle Tracy	4.00	17	MWF 9:00-9:50AM
AS.210.112	02			Spanish Elements II	4.00	17	MWF 10:00-10:50AM
AS.210.112	03			Spanish Elements II	4.00	17	MWF 11:00-11:50AM
AS.210.112	04			Spanish Elements II	4.00	17	MWF 11:00-11:50AM
AS.210.112	05			Spanish Elements II	4.00	17	MWF 12:00-12:50PM
AS.210.151	01			Italian Elements I <i>Zannirato, Alessandro</i>	4.00	17	MWF 9:00-9:50AM

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German & Romance Languages & Literatures

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Course helps students develop basic listening, reading, writing, speaking, and interactional skills in Italian. The content of the course is highly communicative, and students are constantly presented with real-life, task-based activities. Course adopts a continuous assessment system (no mid-term and no final). No S/U option.			
AS.210.151	02			Italian Elements I	4.00	17	MWF 10:00-10:50AM
AS.210.151	03			Italian Elements I	4.00	17	MWF 11:00-11:50AM
AS.210.151	04			Italian Elements I	4.00	17	MWF 12:00-12:50PM
AS.210.161	01			German Elements I <i>Mifflin, Deborah McGee</i>	4.00	17	MWF 9:00-9:50AM; T 9:00-9:50AM
				Four skills introduction to the German language and culture. Develops proficiency in speaking, writing, reading and listening skills through the use of basic texts, multi-media and communicative language activities. Online tools required. Both semesters must be completed with passing grades to receive credit. May not be taken on a satisfactory/unsatisfactory basis. Tuesday section is a mandatory hour. Course coordinator: Deborah Mifflin			
AS.210.161	02			German Elements I	4.00	17	T 10:30-11:20AM; MWF 10:00-10:50AM
AS.210.161	03			German Elements I	4.00	17	MWF 11:00-11:50AM; T 12:00-12:50PM
AS.210.161	04			German Elements I	4.00	17	MW 3:00-4:15PM; T 10:30-11:20AM
AS.210.163	01			Elementary Yiddish I <i>Caplan, Beatrice</i>	3.00	12	TTh 12:00-1:15PM
				Year-long course. Includes the four language skills--reading, writing, listening, and speaking--and introduces students to Yiddish culture through text, song, and film. Emphasis is placed both on the acquisition of Yiddish as a tool for the study of Yiddish literature and Ashkenazic history and culture, and on the active use of the language in oral and written communication. Both semesters must be taken with a passing grade to receive credit. Course coordinator: Deborah Mifflin			
AS.210.177	01			Portuguese Elements <i>Bensabat Ott, Mary M</i>	4.00	25	MWF 11:00-11:50AM
				This one-year course introduces students to the basic skills in reading, writing, and speaking the language. Emphasis is placed on oral communication with, however, extensive training in written and listening skills. Class participation is encouraged from the very beginning. All classes are conducted in Portuguese. Extensive language lab is required. Students must complete both semesters with passing grades to receive credit. May not be taken on a satisfactory/unsatisfactory basis. No previous knowledge of Portuguese is required.			
AS.210.201	01	H		Intermediate French I <i>Roos, Suzanne</i>	3.00	17	MWF 9:00-9:50AM

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				A two-semester course conducted entirely in French, this course develops skills in speaking, listening comprehension, reading, and writing. Systematic review of language structures with focus on oral communication and acquisition of vocabulary; extensive practice in writing; readings and films from French-speaking countries. Course coordinator: Suzanne Roos. Prerequisites: 210.101-102 or appropriate score on Webcape exam.			
AS.210.201	02	H		Intermediate French I	3.00	17	MWF 10:00-10:50AM
AS.210.201	03	H		Intermediate French I	3.00	17	MWF 11:00-11:50AM
AS.210.201	04	H		Intermediate French I	3.00	17	MWF 11:00-11:50AM
AS.210.201	05	H		Intermediate French I	3.00	17	MWF 12:00-12:50PM
AS.210.201	06	H		Intermediate French I	3.00	17	MWF 12:00-12:50PM
AS.210.209	01	H		The Sounds of French <i>Anderson, Bruce</i> This course introduces students to the sound system of French: its development over centuries, its standardized Parisian form versus regional and international dialects and accents, and the popularity of "word games" (abbreviations, acronyms, and verlan). The course will include extensive practice in perceiving, articulating, and transcribing sounds, words, and intonation groups through viewing film clips, listening to songs, and completing in-class lab assignments. Recorded speech samples obtained at the beginning, middle, and end of the semester will allow students to track their progress in moving toward more nativelike pronunciation and intonation. Course coordinator: Suzanne Roos Prerequisite: French Elements or equivalent; Intermediate French (may be taken concurrently)	3.00	9	TTh 10:30-11:45AM
AS.210.211	01	H		Intermediate Spanish I <i>Weingarten, Barry E</i> Prereq: 210.112 or appropriate Placement Exam (Webcape) score. Continues building on the four essential skills for communication presented in Spanish Elements courses. Extensive use of an online component delivered via Blackboard, sustained class participation, and three hourly exams (no midterm and no final). May not be taken Satisfactory/ Unsatisfactory. No new enrollments for this course permitted after Monday, September 10th. Course Coordinator: Barry Weingarten	3.00	17	MWF 9:00-9:50AM
AS.210.211	02	H		Intermediate Spanish I	3.00	17	MWF 10:00-10:50AM
AS.210.211	03	H		Intermediate Spanish I	3.00	17	MWF 10:00-10:50AM
AS.210.211	04	H		Intermediate Spanish I	3.00	17	MWF 11:00-11:50AM
AS.210.211	05	H		Intermediate Spanish I	3.00	17	MWF 12:00-12:50PM
AS.210.211	06	H		Intermediate Spanish I	3.00	17	MWF 3:00-3:50PM
AS.210.212	01	H		Intermediate Spanish II <i>Weingarten, Barry E</i>	3.00	17	MWF 9:00-9:50AM

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				Prereq: 210.211 or appropriate Webcape score Continues building on the four essential skills for communication presented in Spanish Elements courses and in Intermediate Spanish I. Extensive use of an online component delivered via Blackboard, sustained class participation, and three hourly exams (no midterm and no final). May not be taken Satisfactory/Unsatisfactory. No new enrollments for this course permitted after Monday, September 10th. Course Coordinator: Barry Weingarten			
AS.210.212	02	H		Intermediate Spanish II	3.00	17	MWF 10:00-10:50AM
AS.210.212	03	H		Intermediate Spanish II	3.00	17	MWF 11:00-11:50AM
AS.210.212	04	H		Intermediate Spanish II	3.00	17	MWF 11:00-11:50AM
AS.210.212	05	H		Intermediate Spanish II	3.00	17	MWF 12:00-12:50PM
AS.210.251	02	H		Intermediate Italian I <i>Zannirato, Alessandro</i>	3.00	15	MWF 10:00-10:50AM
				Prereqs: AS.210.152 or Placement Exam – Part 1. Course continues building on the four essential skills for communication presented in Italian Elements courses. Improvement of reading and composition skills through the use of contemporary texts, reinforcement of the student's knowledge of the language through weekly oral and written presentations on predetermined subjects. Class participation is essential. All classes are conducted in Italian. Course adopts a continuous assessment system (no mid-term and no final). No S/U option. Course coordinator: Alessandro Zannirato			
AS.210.251	03	H		Intermediate Italian I	3.00	15	MWF 11:00-11:50AM
AS.210.251	04	H		Intermediate Italian I	3.00	15	MWF 12:00-12:50PM
AS.210.261	01	H		Intermediate German I <i>Wheeler, Heidi L</i>	3.00	17	MWF 10:00-10:50AM
				Prereq: 210.162 or placement by exam. Limit 17/section This course continues the same four-skills approach (speaking, writing, reading and listening) from the first-year sequence, introducing and practicing more advanced topics and structures. Expansion and extension through topical readings and discussion and multi-media materials. Online tools required. Taught in German Course coordinator: Heidi Wheeler			
AS.210.261	02	H		Intermediate German I	3.00	17	MWF 11:00-11:50AM
AS.210.261	03	H		Intermediate German I	3.00	17	MW 12:00-1:15PM
AS.210.261	04	H		Intermediate German I	3.00	17	MW 3:00-4:15PM
AS.210.277	01	H		Intermediate/ Advanced Portuguese <i>Anitagrace, Joyce</i>	3.00	25	MWF 10:00-10:50AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				More advanced training in the skills of the language with emphasis on vocabulary building, ease and fluency in the language through the use of a multifaceted approach. Materials used immerse students in the cultures of Brazil, Portugal, and Portuguese-speaking Africa, and reflect the mix of cultures at work in the contemporary Lusophone world. All classes are conducted in Portuguese. Extensive language lab is required. May not be taken on a satisfactory/unsatisfactory basis. Pre-requisites: AS.210.177/178, or placement test.			
AS.210.301	01	H	W	Advanced Writing and Speaking in French <i>Staff</i>	3.00	17	MWF 9:00-9:50AM
				This very interactive third-year language course proposes, in the shape of animated class discussions, to 1) read fictional and non fictional texts through the French explication de textes approach 2) review and develop grammar and conjugation skills 3) learn an array of new vocabulary as well as idiomatic expressions used in everyday speech. Focus will be placed on improving language skills through an individualized review of grammar and vocabulary. Course Coordinator: Bruce Anderson			
AS.210.301	02	H	W	Advanced Writing and Speaking in French	3.00	17	MWF 10:00-10:50AM
AS.210.301	03	H	W	Advanced Writing and Speaking in French	3.00	17	MWF 10:00-10:50AM
AS.210.301	04	H	W	Advanced Writing and Speaking in French	3.00	17	MWF 11:00-11:50AM
AS.210.301	05	H	W	Advanced Writing and Speaking in French	3.00	17	MWF 11:00-11:50AM
AS.210.301	06	H	W	Advanced Writing and Speaking in French	3.00	17	MWF 12:00-12:50PM
AS.210.301	07	H	W	Advanced Writing and Speaking in French	3.00	17	MWF 12:00-12:50PM
AS.210.309	01	H		The Sounds of French <i>Anderson, Bruce</i>	3.00	8	TTh 10:30-11:45AM
				This course introduces students to the sound system of French: its development over centuries, its standardized Parisian form versus regional and international dialects and accents, and the popularity of "word games" (abbreviations, acronyms, and verlan). The course will include extensive practice in perceiving, articulating, and transcribing sounds, words, and intonation groups through viewing film clips, listening to songs, and completing in-class lab assignments. Recorded speech samples obtained at the beginning, middle, and end of the semester will allow students to track their progress in moving toward more nativelike pronunciation and intonation. Prerequisite: French Elements or equivalent; Advanced Writing & Speaking in French (may be taken concurrently) Meets with AS.210.209			
AS.210.311	01	H		Advanced Spanish I <i>Staff</i>	3.00	15	MWF 9:00-9:50AM

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				Prereq: 210.212 or 210.213 or appropriate Webcape score A review and expansion of Spanish communicative skills. Students will be able to express opinions, narrate and describe in a variety of personal and professional contexts. Students will continue to improve linguistic proficiency while increasing cultural awareness. Students will also engage in more formal levels of written communication. This course also focuses on refinement of grammar. Extensive use of an online component delivered via Blackboard, sustained class participation, and three hourly exams (no midterm and no final). May not be taken satisfactory/unsatisfactory. No new enrollments for this course permitted after Monday, September 10th. Course Coordinator: Arancha Moreno Hubbard			
AS.210.311	02	H		Advanced Spanish I	3.00	15	MWF 10:00-10:50AM
AS.210.311	03	H		Advanced Spanish I	3.00	15	MWF 11:00-11:50AM
AS.210.311	04	H		Advanced Spanish I	3.00	15	MWF 11:00-11:50AM
AS.210.311	05	H		Advanced Spanish I	3.00	15	MWF 12:00-12:50PM
AS.210.312	01	H		Advanced Spanish II <i>Staff</i> Prerequisites: 210.311 or appropriate Webcape score An in-depth review and expansion of Spanish communicative skills by focusing on the use of standard, spoken Spanish with an emphasis on colloquial and idiomatic expressions. Student will continue to improve linguistic proficiency while increasing cultural awareness, as well as engage in more formal levels of communication by discussing assigned literary and non-literary topics. They will increase their listening skills through movies and other listening comprehension exercises. The course will also focus on vocabulary acquisition. Extensive use of an online component delivered via Blackboard, sustained class participation, and three hourly exams (no midterm and no final) No new enrollments for this course permitted after Monday, September 10th. Course Coordinator: Arancha Moreno Hubbard	3.00	15	MWF 10:00-10:50AM
AS.210.312	02	H		Advanced Spanish II	3.00	15	MWF 11:00-11:50AM
AS.210.312	03	H		Advanced Spanish II	3.00	15	MWF 12:00-12:50PM
AS.210.313	01	H		Medical Spanish <i>Staff</i> Prereq: 210.311 or appropriate Webcape score Students will increase their vocabulary and practice grammar structures closely related to the medical and health administration professions. All language skills are equally emphasized. Highly recommended to students in any of the health-related majors. There will be an intensive on-line component. May not be taken Satisfactory/ Unsatisfactory. Not open to native speakers. No new enrollments for this course permitted after Monday, September 10th. Course Coordinator: Maria Del Rosario Ramos	3.00	15	TTh 12:00-1:15PM
AS.210.313	02	H		Medical Spanish	3.00	15	TTh 3:00-4:15PM
AS.210.314	01	H		Business Spanish	3.00	15	TTh 12:00-1:15PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Staff</i> Prereqs: 210.311 or appropriate Webcape score Students will increase their vocabulary and practice grammar structures closely related to trade and business practices in the public and private sectors. All language skills are equally emphasized. Highly recommended to students majoring in Business and International Relations. There will be an intensive on-line component. No Satisfactory/ Unsatisfactory. No new enrollments for this course permitted after Monday, September 10th. Course Coordinator: Maria Del Rosario Ramos			
AS.210.316	01	H		Conversational Spanish	3.00	15	TTh 12:00-1:15PM
				<i>Staff</i> Prereq: 210.311 or appropriate Webcape score This course is designed for students who have attained an advanced level of proficiency in Spanish 210.312 and wish to improve their oral skills by focusing on the use of standard, spoken Spanish with an emphasis on colloquial and idiomatic expressions. Students are exposed to a deeper understanding of the cultures of the Spanish-speaking world through movies and other listening comprehension exercises. The course will mainly focus on conversation and vocabulary acquisition. This course is highly recommended for students going to JHU study abroad programs. May not be taken Satisfactory/ Unsatisfactory. No new enrollments for this course permitted after Monday, September 5th. Course Coordinator: Maria Del Roasario Ramos			
AS.210.316	02	H		Conversational Spanish	3.00	15	TTh 3:00-4:15PM
AS.210.351	01	H		Advanced Italian I	3.00	15	MWF 10:00-10:50AM
				<i>Staff</i> Prereq: AS.210.252 or Placement Exam – Parts 1 and 2 - Year course; must complete both semesters for credit. Course presents a systematic introduction to a variety of complex cultural and historical topics related to present-day Italy, emphasizing intercultural comparisons, interdisciplinarity, and encouraging a personal exploration of such topics. Course adopts a continuous assessment system (no mid-term and no final), and is conducted entirely in Italian. No S/U option. Course coordinator: Alessandro Zannirato			
AS.210.351	02	H		Advanced Italian I	3.00	15	MWF 11:00-11:50AM

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AS.210.361	01	H	W	Adv German I: Cultural Topics of the Modern German-speaking World <i>Staff</i> Prereq: 210.262 or placement by exam. Typically, this course focuses on defining moments in cultural history in German speaking countries in the 2nd half of the 20th century. Films, texts and other media provide a basis for discussing events in post-war Germany and Europe through reunification and beyond. A review and expansion of advanced grammatical concepts and vocabulary underlies the course. Focus on improving expression in writing and speaking. Taught in German Course coordinator: Deborah Mifflin	3.00	15	MWF 11:00-11:50AM
AS.210.361	02	H	W	Adv German I: Cultural Topics of the Modern German-speaking World	3.00	15	MW 12:00-1:15PM
AS.210.391	01	H	W	Portuguese Lang & Lit <i>Bensabat Ott, Mary M</i> This third-year course focuses on reading, writing, and oral expression. Under the supervision of the instructor, students will read one or two complete works by major Brazilian, Portuguese, and/or Afro-Portuguese writers each semester, followed by intense writing and oral discussion on the topics covered. Grammar will be reviewed as necessary. Lab work is required. All classes are conducted in Portuguese. Prereq: 210.277.278 or placement exam . Permission Req'd.	3.00	25	MWF 9:00-9:50AM
AS.210.405	01	H		Teaching French in Public School <i>Guillemard, Claude H</i> Prereqs: at least one semester of 211.401-402 or 212.201-202. Freshmen by permission only. Offers advanced students an opportunity to participate in the partnership between JHU and a neighboring elementary school: they will teach French to young students twice a week. Weekly meetings will help prepare the off-site sessions and analyze social and pedagogical issues. Student will keep a journal of their experience and submit a final report. Discussions and writing entirely in French.	3.00	10	M 3:00-4:15PM; TTh 1:00-2:45PM
AS.210.411	01	H	W	Translation for the Professions <i>Staff</i> Prereqs: 210.313, 210.314, or 210.315 Students will learn the basics of translation theory and be presented with the tools needed (specialized dictionaries, web resources, etc) for the translation of literature, business, medical, legal, technological, political, and journalistic texts from Spanish to English and English to Spanish. May not be taken satisfactory/unsatisfactory. No new enrollments for this course permitted after Monday, September 6th. Course Coordinator: Maria Del Rosario Ramos	3.00	12	TTh 3:00-4:15PM
AS.210.412	01	H	W	Spanish Language Practicum <i>Sanchez, Loreto</i>	3.00	12	T 1:30-2:30PM

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				Prereq: 210.411 Spanish Language Practicum involves a specially designed project related to student's minor concentration. Provides an opportunity to use Spanish language in real world contexts. May be related to current employment context or developed in agencies or organizations that complement student's research and experimental background while contributing to the improvement of language proficiency. May not be taken satisfactory/unsatisfactory			
AS.210.413	01	H	W	Curso de Perfeccionamiento <i>Sanchez, Loreto</i>	3.00	12	MW 12:00-1:15PM
				Prereq: 210.311 and 210.312 plus one of the following: 210.313, 210.314 or 210.315; or appropriate Webcape score This course is designed for students who, having attained an advanced level of proficiency, wish to master Spanish grammar as well as oral and written expression. The course seeks to acquaint the students with a wider range of idiomatic expression and usages than they might have previously encountered, and to help them achieve the ACTFL Advanced - Mid Level. The course helps prepare students for the DELE intermediate level offered by Instituto Cervantes. May not be taken Satisfactory/Unsatisfactory			
				May not be taken Satisfactory/Unsatisfactory. Prereq: 210.311 and 210.312 plus one of the following: 210.313, 210.314 or 210.315; or appropriate S-Cape score			
AS.210.417	01	H	W	Eloquent French <i>Cook-Gailloud, Kristin</i>	3.00	15	MWF 11:00-11:50AM
				This highly interactive, writing intensive course places emphasis on : 1) providing students with linguistic tools that will help them reach a high level of written proficiency (advanced lexical, stylistic and idiomatic expressions, linking words used to develop and enrich complex sentences, stylistic and grammatical differences between French and English) 2) enhancing students' analytical skills by introducing them to the French method of Explication de textes 3) teaching students to develop an academic style of writing by studying the different components of the dissertation française (introduction, problématique, argumentation, conclusion, utilisation de sources) 4) teaching students to develop their own style of writing. To that effect, we will study excerpts of French literary texts that deal with themes likely to enhance their own creative writing (lieux imaginaires, mémoire et autobiographie, création d'un personnage de roman, for example) THIS COURSE CAN COUNT AS A 211 (CULTURE) COURSE ONLY FOR THE STUDENTS WHO ALREADY HAVE DECLARED THEIR FRENCH MAJOR AND MINORS BEFORE FALL 2010.			
AS.210.451	01		W	Curso di Perfezionamento	0.00 - 3.50	6	MWF 9:00-9:50AM

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				<i>Zannirato, Alessandro</i> This task-based course is designed to prepare students to acquire Effective Operational Proficiency in Italian, (C1 level of the Common European Framework). By the end of the course, successful students will be able to: 1) understand a wide range of demanding, longer texts, and recognize implicit meaning; 2) produce clear, well-constructed, detailed texts on complex subjects; 3) express themselves fluently and spontaneously without much obvious searching for expressions; 4) use language flexibly and effectively for social, academic, and professional purposes. Extensive independent work required. Course adopts a continuous assessment system (no mid-term and no final), and is conducted entirely in Italian. No S/U option.			
AS.211.201	01	H		Case Studies: Law in Literature	3.00	18	MW 1:30-2:45PM
				<i>Densky, Doreen</i> In law and literature, words and stories play a crucial role. Indeed, the courtroom is often inherently theatrical. What happens when legal trials and questions of law and justice are transformed into literature? What are the possibilities—and risks—of following the long tradition that combines the fields of law and literature as social and cultural forces? Why has this dynamic connection intrigued many writers of modern literature and how do they represent legal issues? This course explores the representation of law and trials in 19th and 20th century German-language literature as well as larger ethical concerns around justice and revenge. Following a theoretical overview, we will discuss drama and prose by, among others, Heinrich von Kleist, Franz Kafka Bertolt Brecht and Peter Weiss—as well as selected stage and filmic adaptations of their works—as “case studies.” (Taught in English)			
AS.211.235	01	H		Panorama of German Thought I	3.00	15	TTh 9:00-10:15AM
				<i>Staff</i>			

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				<p>Taught in English. German thought is a broad intellectual tradition that encompasses works in an astonishing number of fields including philosophy, aesthetics, sociology, epistemology, psychology, anthropology, history, religious studies, and cultural analysis. The most prominent representatives of this tradition are Luther, Kant, Humboldt, Hegel, Nietzsche, Marx, Warburg, Freud, Benjamin, Kracauer, Weber, Simmel, Cassirer, Auerbach, Adorno, Arendt, Heidegger, and Luhmann. Indeed the study of cultural, historical, and social phenomena as well as of literary and artistic forms would not have been possible without the German intellectual tradition which, beginning with the Enlightenment, emphasized the role of the subject in constituting objects of knowledge and experience. This two-semester survey course will highlight important topics of German Thought, e.g. the subject, consciousness and unconsciousness, Bildung and the idea of the university, the sublime and the uncanny, irony, hermeneutics and translation, the desire for knowledge, tragedy and repetition, civilization, symbolic forms and medial reproduction, memory, and authority in a historical scope. While the first semester (Fall) covers until 1850 (from Luther to Hegel/Kierkegaard), the second (Spring) focuses on Modern German Thought after 1850 (from Marx to Luhmann). Meets with AS.213.235</p>			
AS.211.253	01	H		<p>Why is the Fiddler on the Roof?: The Shtetl in Modern Jewish Culture <i>Caplan, Beatrice</i></p> <p>The most familiar portrayal of the shtetl for an American audience is the setting of the Broadway musical Fiddler on the Roof, where the shtetl, or market town, is a bastion of traditional Jewish life. But what exactly was a shtetl? How did traditional Jews live there, and how were their lives affected by the sweep of modernity? How was the Yiddish language, spoken by all shtetl Jews, both a repository of tradition and an agent of change? How do representations of the shtetl--from corrupt backwater to pious haven--reflect the concerns of Jews from the nineteenth century up to our own day? Through memoir, literature, film and painting, this course will examine actual lives lived in the shtetl, as well as a selection of the many artistic representations of it. All readings will be in English.</p>	3.00	15	TTh 9:00-10:15AM
AS.211.340	01	H		<p>Topics in French Cinema: Le crime au cinéma <i>Roos, Suzanne</i></p>	3.00	15	MW 1:30-2:45PM

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				An exploration of immigration, identity, and cultural differences through the lens of recent French and Francophone films. 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 Kassowitz, the Dardennes, Kechiche, and Haneke. Requirements for this course: completion of Advanced writing and speaking in French, or equivalent score on the Webcape placement test. Prerequisites: 210.301-302 or 210.301 or permission of instructor.			
AS.211.375	01	H		Documentary Production Practicum: "The Cure:" the History and Culture of Breast Cancer <i>Wegenstein, Bernadette</i> This class will accompany Bernadette Wegenstein during some months of producing her feature documentary "The Cure" on the history and culture of breast cancer. It will be a hands on experience with director/producer Bernadette Wegenstein, editor/producer Patrick Wright and cinematographer Allen Moore filming at the GBMC's Breast Care clinic, the Halsted Medical Archives, and some other Baltimore locations. This class will meet once a week, but some weeks the class will consist in the hands-on experience on the field rather than the actual class meeting.	3.00	8	T 4:00-6:20PM
AS.211.390	01	H		Modern Spanish Culture <i>Staff</i> Pre-requisites: Advanced Spanish I 210.311 or appropriate Webcape score. This course will explore the fundamental aspects of Spanish culture from the nineteenth to the twenty-first centuries. The course will offer a general survey of the history of Spain, and will discuss texts, movies, songs, pictures, and paintings, in relation to their social, political, and cultural contexts. This course will be of particular interest for students planning in spending a semester abroad in Spain—specially for those students going to the JHU Fall Semester in Madrid, at Carlos III University. Taught in Spanish.	3.00	17	TTh 3:00-4:15PM
AS.211.394	01	H	W	Brazilian Cult & Civ <i>Bensabat Ott, Mary M</i> This course surveys the culture and civilization of Brazil emphasizing influences of African, Asian, European, and indigenous cultures over four centuries. Using a multimedia approach, it examines art, music, popular culture, history, theater, literature, and cinema. Course taught in English, but ONE extra credit will be given to students who wish to do the course work in Portuguese. The sections will be taught simultaneously. Section 01 – work done in English Section 02 – work done in Portuguese; Permission Required for sec. 02 only	3.00		M 2:00-4:30PM

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AS.211.394	02	H	W	Brazilian Cult & Civ	3.50		M 2:00-4:30PM
AS.211.401	01	H		La France Contemporaine I <i>Staff</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. Prerequisites: 210.301-302 or 210.301 or permission of instructor. Course coordinator: April Wuensch	3.00	15	MWF 9:00-9:50AM
AS.211.401	02	H		La France Contemporaine I	3.00	15	MWF 10:00-10:50AM
AS.211.401	03	H		La France Contemporaine I	3.00	15	MWF 11:00-11:50AM
AS.211.427	01	H	W	Libertins, Athées, Imposteurs <i>Russo, Elena</i> An exploration of the clandestine culture of free-thinkers, hedonists and rakes in France in the 17th and the 18th centuries and their strategies for undermining the theological grounding of morality, politics, sexuality and gender. Readings from Descartes, Cyrano de Bergerac, Molière, Diderot, Sade, Laclos and others. Meets with AS.212.427	3.00	10	TTh 3:00-4:15PM
AS.211.434	01	H		Ink & Blood: The Battle of Rehtoric Around the Dreyfus Affair <i>Cook-Gailloud, Kristin</i> This course proposes to look at persuasive strategies that were engaged during the Dreyfus Affair in order to either incriminate or discriminate the Jewish captain falsely accused of having betrayed the French army. Course will focus on the socio-political events that framed the Dreyfus Affair (anti-Semitism in 19th-century France, caricatures and polemical writings in the press, the consequences of the Franco-Prussian War and of the Commune, the bipolar division that split French society into Dreyfusards and anti-Dreyfusards), as well as its long-term effects (the rise of the extreme right, the creation of the "intellectual", the consolidation of Zionism which ultimately led to the creation of a Jewish state). Prerequisites: 210.301-302 or 210.301 or permission of instructor.	3.00	15	MWF 12:00-12:50PM
AS.212.327	01	H	W	Mise et remise en scene: Performing in the 18th Century <i>Sabee, Olivia Maj</i> An introduction to texts and performance practices of the eighteenth century French theater, and an exploration of challenges and creative approaches to its restaging today. Course has a performance requirement.	3.00	20	MW 3:00-4:15PM
AS.212.333	01	H	W	Introduction à la littérature française <i>Neefs, Jacky G</i>	3.00	20	MW 12:00-1:15PM

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				Readings and discussion of texts of various genres from the Middle Ages to the 20th century. The two semesters may be taken in either order. This sequence is a pre-requisite to all further literature courses. Students may co-register with an upper-level course during their second semester. Prerequisites: both semesters of 210.301-302 or at least one semester of 210.301-302 with a grade of A and written permission of the instructor. Note: 210.301-302 are prerequisites for all undergraduate courses with higher numbers.			
AS.212.333	02	H	W	Introduction à la littérature française <i>Anderson, Wilda</i>	3.00	20	TTh 10:30-11:45AM
AS.212.427	01	H		Libertins, Athées, Imposteurs <i>Russo, Elena</i> An exploration of the clandestine culture of free-thinkers, hedonists and rakes in France in the 17th and the 18th centuries and their strategies for undermining the theological grounding of morality, politics, sexuality and gender. Readings from Descartes, Cyrano de Bergerac, Molière, Diderot, Sade, Laclos and others. Meets with 211.427	3.00	10	TTh 3:00-4:15PM
AS.212.429	01	H		Limit-Experience, Limit-Texts <i>Staff</i> Among the many functions of literary narrative is that of describing and domesticating extreme experience, from the horrors of war and incarceration to religious ecstasy, madness, and acute illness. Writers have long exploited the extreme to probe the reaches of human consciousness and the social pacts that differentiate transgressive from normal behaviors. Drawing on the work of 20th century French-language authors of novels, short stories, and witness accounts (Breton, Camus, Chraïbi, Delbo, Duras, Guibert, Le Clézio, Volodine), this course will explore how narrative strategies relate to extreme states, situations, and conditions. At the same time, through excerpts from experimental writers from Surrealism to l'écriture féminine, we will also consider how language itself can create a manner of limit-experience by questioning the boundaries of the readable. Course in French.	3.00	18	W 1:30-3:50PM
AS.212.430	01	H	W	Senior Seminar <i>Anderson, Wilda</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.	3.00	30	MWF 8:00-8:50AM
AS.213.229	01	H		Weimar on the Pacific: German Exile Culture in the United States <i>Krauss, Andrea B</i>	3.00	15	MW 12:00-1:15PM

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				<p>Taught in German. After Hitler's seizure of power in 1933, the number of artists and intellectuals who fled the Nazi regime soon rose into the thousands. Many of these German expatriates ultimately settled in the United States (e.g. Los Angeles, New York), where, simultaneously attracted and alienated by their new surroundings, they made a significant impact on American culture. The seminar will explore German Exile Culture in the U.S. in its broad variety spanning a spectrum from film (Fritz Lang, Billy Wilder) to architecture (Richard Neutra, Rudolf M. Schindler), literature (Thomas Mann, Berthold Brecht, Lion Feuchtwanger), and philosophy (Theodor W. Adorno, Hannah Arendt). Based on the aesthetic and conceptual specificities of the artifacts, class discussions will focus on the relations between art and politics, modernist and mass culture, art and capitalism, culture and democracy. The seminar will close with a look at postwar America and the McCarthy era, when European emigrants became the target of suspicion as left-wing intellectuals.</p>			
AS.213.235	01	H		<p>Panorama of German Thought I <i>Staff</i></p> <p>Taught in English. German thought is a broad intellectual tradition that encompasses works in an astonishing number of fields including philosophy, aesthetics, sociology, epistemology, psychology, anthropology, history, religious studies, and cultural analysis. The most prominent representatives of this tradition are Luther, Kant, Humboldt, Hegel, Nietzsche, Marx, Warburg, Freud, Benjamin, Kracauer, Weber, Simmel, Cassirer, Auerbach, Adorno, Arendt, Heidegger, and Luhmann. Indeed the study of cultural, historical, and social phenomena as well as of literary and artistic forms would not have been possible without the German intellectual tradition which, beginning with the Enlightenment, emphasized the role of the subject in constituting objects of knowledge and experience. This two-semester survey course will highlight important topics of German Thought, e.g. the subject, consciousness and unconsciousness, Bildung and the idea of the university, the sublime and the uncanny, irony, hermeneutics and translation, the desire for knowledge, tragedy and repetition, civilization, symbolic forms and medial reproduction, memory, and authority in a historical scope. While the first semester (Fall) covers until 1850 (from Luther to Hegel/Kierkegaard), the second (Spring) focuses on Modern German Thought after 1850 (from Marx to Luhmann). Meets with 211.235</p>	3.00	10	TTh 9:00-10:15AM
AS.213.251	01	H		<p>Friedrich Nietzsche <i>Pahl, Katrin</i></p>	3.00	20	TTh 12:00-1:15PM

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				Freshman Seminar: This seminar offers an introduction to Nietzsche's work and a first journey into the world of German thought, culture, and literature. Friedrich Nietzsche continues to be one of the most radical and influential philosophers of the West. Famous and infamous for announcing the death of God and the advent of the superhuman, his irreverence for philosophical tradition culminated in the call to "philosophize with a hammer" (so as to demolish the constructions of Western metaphysics). He embarrassed the old philosophers exposing their, as he put it, clumsy lovmaking with truth. And he stunned generations of intellectuals after him with his idea of the eternal return of the same. But Nietzsche was also a scintillatingly witty writer, a light-footed and poetic thinker, a bold defender of the experiences of the body, a tender human being, and a sharp critic of German narrow-mindedness.			
AS.213.253	01	H		Freshman Seminar: The Berlin Wall - Divided Stories in Literature & Film <i>Strowick, Elisabeth</i> With the fall of the Berlin Wall in 1989, one of the most powerful symbols of the Cold War came down. For decades, the division between East and West Germany had been a decisive factor in German literature and film from both states in several respects. Political censorship in the GDR and West German publishing policies determined the conditions for art production. They created specific audiences and shaped the role of the public intellectual. The Berlin Wall could also be said to have contributed to certain trends like the aesthetics of coldness and the poetics of observation. The course examines the relationship between aesthetics and politics in German-German literature and film from 1961 to the present. Readings include: Christa Wolf, Uwe Johnson, Reiner Kunze, Peter Schneider, Ingo Schulze, Anna Funder. Films: Wings of Desire (Wim Wenders, 1987), The Leading Role (Harun Farocki, 1994), The Tunnel (Roland Suso Richter, 2001), Good Bye, Lenin! (Wolfgang Becker, 2003), The Lives of Others (von Donnersmarck, 2007), Yella (Christian Petzold, 2007). The course will be taught in English.	3.00	15	TTh 12:00-1:15PM
AS.213.354	01	H		Introduction to German Poetry <i>Tobias, Rochelle</i> This class will introduce students to German poetry from the eighteenth to the twentieth century. We will read selected poems by Goethe, Eichendorff, Mörike, George, Hofmannsthal, Rilke, Trakl, Celan, and Bachmann. In addition we will read several theoretical essays by poets and literary critics alike which examine the lyric form and the curious world that poetry constructs. Readings and discussion in German.	3.00	15	TTh 10:30-11:45AM
AS.213.403	01	H		Women and Their Representation in Modern Jewish Literature <i>Caplan, Marc</i>	3.00	50	WF 12:00-1:15PM

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				<p>If the development of modern literary forms such as the novel, the short story, and the autobiography in Jewish languages commences at a much later date than in other European cultures, the participation of women in the cultivation of these literary forms in Yiddish or Hebrew begins even later: only at the very beginning of the 20th century. What are some of the cultural and historical factors that account for this belatedness? How were women depicted in Jewish literature prior to their entry into the literary marketplace? How does the late start of female writers in these languages affect the formal and political character of their writing? What do aesthetic differences between poetry and prose genres signify about this writing? How do cultural assumptions in Jewish languages differentiate women's writing from similar forms and genres in other languages? These questions, among others, will be considered with reference to a variety of narratives and poems taken from Yiddish, Hebrew, German, and English sources. Authors to be considered will include Esther Singer Kreitman, Anna Margolin, Kadya Molodowsky, Chava Rosenfarb, Rachel Bluwstein, Leah Goldberg, Orly Castel-Bloom, Else Lasker-Schüller, and Gertrude Stein. All readings and discussions in English.</p>			
AS.214.271	01	H	W	<p>Boccaccio's Decameron <i>Forni, Pier Massimo</i></p> <p>A close reading of Giovanni Boccaccio's masterpiece will allow the students to become acquainted with the civilization of the European Middle Ages. Among the areas of interest are: medieval Italy as a mosaic of powers, faith and religion, women in society, nobles, commoners and the rise of the middle class, the rituals of love, and the purposes of literature.</p>	3.00	15	M 1:30-3:50PM

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AS.214.479	01	H	W	Dante's Journey through the Afterlife: The Divine Comedy <i>Stephens, Walter E</i> Dante's Divina commedia is universally recognized as the greatest long poem of the Middle Ages; many consider it the greatest poem of all time. We will study the entire Commedia critically in terms of broad categories: (1) What it reveals about the worldview of late-medieval Christian Europe; (2) its internal thematic cohesion and formal symmetries, or how it works as poetry; (3) its critique of the intellectual cultures of pagan antiquity and medieval Christianity; (4) its presentation of political and social issues; (5) its influence on European intellectual history; (6) the interpretive problems it presents to modern readers and translators; (7) the challenges Dante faced in understanding and summarizing the whole of cosmology, world history and culture. We will read and discuss Commedia in English, in editions containing the Italian text on facing pages: students will be expected to refer to the original Italian regularly and familiarize themselves with key terms and concepts even if they do not speak Italian. Italian majors will meet once a week for discussions in Italian and will submit all written work in Italian, for major credit.	3.00	25	T 2:00-4:20PM
AS.215.231	01	H	W	Introduction to Literature in Spanish <i>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. Course coordinator: Eduardo Gonzalez	3.00	17	TTh 3:00-4:15PM
AS.215.231	02	H	W	Introduction to Literature in Spanish <i>Gonzalez, Eduardo</i>	3.00	17	TTh 3:00-4:15PM
AS.215.341	01	H	W	Perspectives on the Study of Latin America <i>Castro-Klaren, Sara</i> An interdisciplinary approach to the study of Latin America since Independence. The course will reply on an historical approach to the the study of literature, art and the formation of cultural epochs and periods.	3.00	30	W 1:30-3:50PM
AS.215.458	01	H		Cuba and its Culture Since the Revolution <i>Gonzalez, Eduardo</i> We will study the visual and textual arts, cinema, political culture, and blogosphere; reaching back to the first phases in the building of the revolutionary state apparatus and its sovereign mandate. Taught in Spanish.	3.00	15	M 1:30-4:00PM
AS.215.466	01	H		The Spanish Avant-garde <i>Egginton, William</i>	3.00	20	W 1:30-3:50PM

German & Romance Languages & Literatures

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				From the turn of the 20th century until the outbreak of Civil war in 1936, Spain witnessed the greatest flourishing in its literary and artistic scenes since its Golden Age 300 years before. In poetry, prose, painting, and film, Spanish artists and intellectuals were innovating artistic forms and participating in new kinds of cultural production and critical practice. In this course we will examine this period, paying special attention to the works of such writers and artists as Miguel de Unamuno, José Ortega y Gasset, Luis Buñuel, Salvador Dalí, Federico García Lorca, and Pablo Picasso.			
				The course will be taught in Spanish.			
AS.215.474	01	H		Origins of the Spanish Novel <i>Sieber, Harry</i>	3.00	15	W 1:30-3:50PM
				Readings will include selections from Medieval and Renaissance Works, such as "El Conde Lucanor", "Amadis de Gaula", "La carcel de amor", "El Abencerraje", "Lazirillo de Tormes", "La Diana", "El buscon", "Novelas ejemplares" (Cervantes) and "Don Quixote".			
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i>	3.00	15	TTh 10:30-11:45AM
				Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Machiavelli, Shakespeare, Flaubert, Douglass, and Woolf, as well as musical compositions by Bach and Ravel.			
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	03	H	W	Great Books at Hopkins <i>Coleman, James</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	04	H	W	Great Books at Hopkins <i>Talle, Andrew</i>	3.00	15	TTh 10:30-11:45AM
AS.361.130	01	HS	W	Introduction to Latin American Studies <i>Ramsdell, Lea A</i>	3.00	30	TTh 10:30AM-11:15PM
				Within the background of a chronological frame that starts with early Amer-Indian civilizations and moves on to issues in contemporary culture and politics, the course introduces students to an interdisciplinary understanding of Latin American History and Culture. The course draws from historical geography, anthropology, history, politics and art, film and literature. Cross-list with GRLL, Anthropology, Humanities Center, and History.			

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.010.291	01	H	W	Architectural History of Baltimore <i>Perschler, Martin</i> Focusing on Baltimore's built environment and drawing upon primary sources, this course will explore the major European and American design theories, values, and practices of the last several centuries with an eye towards establishing Baltimore's place within a national and global urban environmental context. Topics addressed in this course include city building, class and race, architectural revivalism, transportation, urban renewal, and post-industrialism.	3.00	10	M 7:00-9:30PM
AS.010.291	02	H	W	Architectural History of Baltimore	3.00	5	M 7:00-9:30PM
AS.010.291	03	H	W	Architectural History of Baltimore	3.00	5	M 7:00-9:30PM
AS.010.291	04	H	W	Architectural History of Baltimore	3.00	5	M 7:00-9:30PM
AS.061.396	01	H		Modern Paris on Film <i>Mason, Laura</i> This course uses French film to examine the history of twentieth-century Paris. We will consider how filmmakers interpreted the social, political, and technological transformations that shaped Paris in the modern era, treating movies as expressions of change and means by which filmmakers comment on it. Taught in English. Cross-listed with History. Lecture W 1:30-4 PM, Screening M 7:30-10 PM.	3.00	18	MW 1:30-2:50PM
AS.100.102	01	HS	W	The Medieval World <i>Spiegel, Gabrielle M</i> This course explores selected topics in the political, economic, social and intellectual history of Western Europe in the period between the fall of the Roman Empire and the 13th century.	3.00	20	MW 10:00-10:50AM; F 11:00-11:50AM
AS.100.102	02	HS	W	The Medieval World	3.00	20	F 10:00-10:50AM; MW 10:00-10:50AM
AS.100.102	03	HS	W	The Medieval World	3.00	20	F 9:00-9:50AM; MW 10:00-10:50AM
AS.100.102	04	HS	W	The Medieval World	3.00	20	F 9:00-9:50AM; MW 10:00-10:50AM
AS.100.102	05	HS	W	The Medieval World	3.00	20	F 10:00-10:50AM; MW 10:00-10:50AM
AS.100.102	06	HS	W	The Medieval World	3.00	20	F 12:00-12:50PM; MW 10:00-10:50AM
AS.100.103	01	HS		History of Occidental Civilization: Europe & the Wider World <i>Paquette, Gabriel</i> This course surveys the history of Europe, European imperial expansion, and Europe's interactions with Africa, the Americas, and Asia during the early modern period.	3.00	20	MW 9:00-9:50AM; F 9:00-9:50AM
AS.100.103	02	HS		History of Occidental Civilization: Europe & the Wider World	3.00	20	MW 9:00-9:50AM; F 11:00-11:50AM
AS.100.103	03	HS		History of Occidental Civilization: Europe & the Wider World	3.00	20	MW 9:00-9:50AM; F 1:00-1:50PM
AS.100.103	04	HS		History of Occidental Civilization: Europe & the Wider World	3.00	20	MW 9:00-9:50AM; F 10:00-10:50AM
AS.100.103	05	HS		History of Occidental Civilization: Europe & the Wider World	3.00	20	MW 9:00-9:50AM; F 9:00-9:50AM
AS.100.103	06	HS		History of Occidental Civilization: Europe & the Wider World	3.00	20	MW 9:00-9:50AM; F 9:00-9:50AM
AS.100.112	01	HS		Making America: Mastery & Freedom in British Mainland America, 1607-1789 <i>Ditz, Toby L</i>	3.00	20	MW 12:00-12:50PM; F 11:00-11:50AM

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AS.100.112	02	HS		Making America: Mastery & Freedom in British Mainland America, 1607-1789	3.00	20	MW 12:00-12:50PM; F 12:00-12:50PM
AS.100.112	03	HS		Making America: Mastery & Freedom in British Mainland America, 1607-1789	3.00	20	MW 12:00-12:50PM; F 12:00-12:50PM
AS.100.112	04	HS		Making America: Mastery & Freedom in British Mainland America, 1607-1789	3.00	20	MW 12:00-12:50PM; F 2:00-2:50PM
AS.100.112	05	HS		Making America: Mastery & Freedom in British Mainland America, 1607-1789	3.00	20	MW 12:00-12:50PM; F 1:00-1:50PM
AS.100.139	01	HS	W	American Conservatism <i>Burgin, Angus</i> Freshmen Only. This course will explore the history of conservative ideas and politics in the United States from the antebellum South to the age of Reagan.	3.00	15	M 1:30-3:50PM
AS.100.193	01	HS	W	Undergrad Sem in History <i>Ryan, Mary</i> Required for all history majors and normally taken during the sophomore year. Deals with the elements of historical writing and thinking. Must be taken in sequence.	3.00	25	M 1:30-3:50PM
AS.100.193	02	HS	W	Undergrad Sem in History <i>Shepard, Todd</i>	3.00	20	M 1:30-3:50PM
AS.100.219	01	HS		Chinese Cultural Revolution <i>Meyer-Fong, Tobie</i> This introductory class will explore the Cultural Revolution (1966-1976), Chairman Mao's last attempt to transform China, and a period marked by social upheaval, personal vendettas, violence, and ideological pressure.	3.00		MWF 11:00-11:50AM
AS.100.239	01	HS		Why Putin? The Rise and Fall of Democracy in Russia, 1985-2012 <i>Staff</i> This course examines the main aspects of recent Russian history including the crisis of communism and the dissolution of the Soviet Union, the struggle for democratic reforms under Boris Eltsin, and the emergence of Vladimir Putin's authoritarian regime.	3.00	40	TTh 10:30-11:45AM
AS.100.300	01	HS	W	History of 20th Century France since 1945 <i>Shepard, Todd</i> Examines white, African, and Native American women's economic activities in early America, including as laborers, entrepreneurs, and consumers. Also considers women's economic and political roles during the Revolution and Civil War.	3.00	20	M 1:30-3:50PM
AS.100.303	01	HS	W	Old Regime France <i>Kwass, Michael</i> This course examines the history of France from the reign of Louis XIV to the French Revolution, concentrating on the rise of absolutism, the challenge of the Enlightenment, and the origins of the French Revolution.	3.00	18	TTh 1:30-2:45PM

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AS.100.307	01	HS	W	Jewish Culture in the Age of War: Revolution, and Political Crisis <i>Moss, Kenneth</i> Jewish literature, cultural life, religious and political thought in interwar Eastern Europe in the cross-currents of world war, revolutionary and counter-revolutionary politics, nationalism in new nation-states.	3.00	20	MW 1:30-2:45PM
AS.100.318	01	HS	W	The Age of Revolutions <i>Paquette, Gabriel</i> This seminar focuses on the political, social, and economic thought animating the revolutions which transformed Europe and the Americas, c. 1760 - 1850.	3.00	14	W 2:30-5:00PM
AS.100.332	01	HS		Human Rights History <i>Mason, Laura</i> Examines how the idea that people have rights transcending their particular place and time has evolved since the early modern period, with special emphasis on European experience and thought,	3.00	18	MW 12:00-1:15PM
AS.100.333	01	HS	W	Global Public Health Since World War II <i>Galambos, Louis P</i> Globalization has dramatically reshaped the world economy, providing great advantages to some but leaving poor nations to struggle with hunger, disease and death on a daily basis. This course explores the impact of globalization on public health in the developed and the developing nations since 1945. Cross-listed with Public Health Studies	3.00	15	MW 11:00-11:50AM; F 9:00-9:50AM
AS.100.333	02	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 8:00-8:50AM
AS.100.333	03	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.333	04	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.333	05	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 9:00-9:50AM
AS.100.333	06	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM
AS.100.333	07	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 8:00-8:50AM
AS.100.333	08	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM
AS.100.334	01	HS	W	Gender and the Economy in America, 1600-1870 <i>Damiano, Sara Tabak</i> Examines white, African, and Native American women's economic activities in early America, including as laborers, entrepreneurs, and consumers. Also considers women's economic and political roles during the Revolution and Civil War.	3.00	18	TTh 9:00-10:15AM
AS.100.335	01	HS	W	The American West <i>Walters, Ronald</i>	3.00	35	TTh 10:30-11:45AM
AS.100.347	01	HS	W	Early Modern China <i>Rowe, William T</i> The history of China from the 16th to the late 19th centuries.	3.00		TTh 10:30AM-11:45PM
AS.100.378	01	HS		Warfare in the Era of the French Revolution <i>Tozzi, Christopher James</i> This course examines the wars associated with the French Revolution and Napoleonic Empire in Europe. Prereq: AS.100.103 or AS.100.104.	3.00	25	TTh 3:00-4:15PM

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AS.100.391	01	HS	W	Originalism and the American Constitution: History and Interpretation <i>Gienapp, Jonathan Eric</i> This course explores both the historical dimension of the constitution's creation as well as the meaning that such knowledge should bring to bear on its subsequent interpretation.	3.00		MW 3:00-4:15PM
AS.100.404	01	HS	W	John Locke <i>Marshall, John W</i> Seminar style course in which John Locke's major works will be read intensively, together with some of his contemporaries' works, and select scholarly interpretations.	3.00	25	TTh 10:30-11:45AM
AS.100.415	01	HS	W	Papyrus, Parchment, and Paper <i>Rustow, Marina</i> The diffusion of writing before the industrial age, especially around the Mediterranean, the preservation of lightweight, portable texts; modern discoveries (Oxyrhynchus, Dead Sea Scrolls, Nag Hammadi, Cairo Geniza).	3.00	12	Th 2:00-5:30PM
AS.100.428	01	HS	W	London-20th Century <i>Walkowitz, Judith</i> This course investigates the history of London between 1900 and 1960. The following themes are explored: the built environment, the local and the global, policing and crime, sexual scandal, popular entertainments and erotic pleasure, consumer culture and the media, cultural imperialism, the experience of war, social democracy, and the emergence of a multi-racial urban society. Cross-listed with Studies of Women, Gender, and Sexuality	3.00	20	W 1:30-3:45PM
AS.100.441	01	HS		Society, Politics, and Economics in Latin America <i>Knight, Franklin</i> This course traces the complex relationship between politics, economics, and social changes in Latin America and the Caribbean since World War II.	3.00	20	TTh 10:30-11:45AM
AS.100.486	01	HS	W	Jim Crow in America <i>Connolly, Nathan D</i> Examines the history of racial segregation in America, which is commonly known, when written into law as "Jim Crow" segregation. This course moves from Jim Crow's cultural roots in the early 19th century to the present-day legacies of legalized segregation, as they exist in housing patterns, schools, and popular culture.	3.00		T 1:30-3:50PM
AS.211.253	01	H		Why is the Fiddler on the Roof?: The Shtetl in Modern Jewish Culture <i>Caplan, Beatrice</i>	3.00	15	TTh 9:00-10:15AM

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				The most familiar portrayal of the shtetl for an American audience is the setting of the Broadway musical Fiddler on the Roof, where the shtetl, or market town, is a bastion of traditional Jewish life. But what exactly was a shtetl? How did traditional Jews live there, and how were their lives affected by the sweep of modernity? How was the Yiddish language, spoken by all shtetl Jews, both a repository of tradition and an agent of change? How do representations of the shtetl--from corrupt backwater to pious haven--reflect the concerns of Jews from the nineteenth century up to our own day? Through memoir, literature, film and painting, this course will examine actual lives lived in the shtetl, as well as a selection of the many artistic representations of it. All readings will be in English.			
AS.211.394	01	H	W	Brazilian Cult & Civ <i>Bensabat Ott, Mary M</i>	3.00		M 2:00-4:30PM
				This course surveys the culture and civilization of Brazil emphasizing influences of African, Asian, European, and indigenous cultures over four centuries. Using a multimedia approach, it examines art, music, popular culture, history, theater, literature, and cinema. Course taught in English, but ONE extra credit will be given to students who wish to do the course work in Portuguese. The sections will be taught simultaneously. Section 01 – work done in English Section 02 – work done in Portuguese; Permission Required for sec. 02 only			
AS.211.394	02	H	W	Brazilian Cult & Civ	3.50		M 2:00-4:30PM
AS.213.253	01	H		Freshman Seminar: The Berlin Wall - Divided Stories in Literature & Film <i>Strowick, Elisabeth</i>	3.00	15	TTh 12:00-1:15PM
				With the fall of the Berlin Wall in 1989, one of the most powerful symbols of the Cold War came down. For decades, the division between East and West Germany had been a decisive factor in German literature and film from both states in several respects. Political censorship in the GDR and West German publishing policies determined the conditions for art production. They created specific audiences and shaped the role of the public intellectual. The Berlin Wall could also be said to have contributed to certain trends like the aesthetics of coldness and the poetics of observation. The course examines the relationship between aesthetics and politics in German-German literature and film from 1961 to the present. Readings include: Christa Wolf, Uwe Johnson, Reiner Kunze, Peter Schneider, Ingo Schulze, Anna Funder. Films: Wings of Desire (Wim Wenders, 1987), The Leading Role (Harun Farocki, 1994), The Tunnel (Roland Suso Richter, 2001), Good Bye, Lenin! (Wolfgang Becker, 2003), The Lives of Others (von Donnersmarck, 2007), Yella (Christian Petzold, 2007). The course will be taught in English.			
AS.360.147	01	HS	W	Adam Smith and Karl Marx <i>Jelavich, Peter</i>	3.00	20	W 1:30-4:00PM

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				Freshmen Seminar. This freshmen seminar examines the ideas of Smith, the greatest proponent of the free market, and Marx, his most radical critic. Freshmen only.			
AS.361.130	01	HS	W	Introduction to Latin American Studies <i>Ramsdell, Lea A</i> Within the background of a chronological frame that starts with early Amer-Indian civilizations and moves on to issues in contemporary culture and politics, the course introduces students to an interdisciplinary understanding of Latin American History and Culture. The course draws from historical geography, anthropology, history, politics and art, film and literature. Cross-list with GRLL, Anthropology, Humanities Center, and History.	3.00	30	TTh 10:30AM-11:15PM
AS.362.104	01	H	W	Introduction to to the African Diaspora <i>Romero, Patricia</i> This course will provide an overview of West and Central African societies before the advent of the Atlantic slave trade in the late 1400s, introduce European contact with Africa and examine the forced migration of Africans to the Americas via the Atlantic slave trade.	3.00	15	Th 2:00-4:30PM
AS.362.105	01	HS	W	Reading Seminar: Black Society in the Americas <i>Knight, Franklin</i> Jointly offered with Moira Hinderer, based on themes developed from the archives of the Afro-American Newspaper and selected readings of African American Societies from across the hemisphere of the Americas.	3.00	10	W 4:00-6:30PM
AS.362.340	01	S	W	Power and Racism <i>Hayes, Floyd, III.</i> This course investigates the impact of white supremacy and anti-black racism, as a global system of power, on the political development of the United States of America.	3.00	20	T 1:30-3:50PM
AS.389.201	01	HS		Introduction to the Museum: Past and Present <i>Rodini, Elizabeth</i> This course surveys museums, from their origins to their most contemporary forms, in the context of broader historical, intellectual, and cultural trends. Anthropology, art, history, and science museums are considered. Cross-listed with Anthropology, History, History of Art.	3.00	25	TTh 1:30-2:45PM
AS.389.357	01	H		Heaven on Earth: Art, Culture and Wonder in the Vatican Museum and Library <i>Havens, Earle</i> This interdisciplinary course will explore the institutional, cultural, artistic and architectural history of St. Peter's and the Vatican Museum and Library from Antiquity through the Renaissance, up to the present day. Class meets in the Dick Macksey Seminar Room of the Brody Learning Commons. Cross-listed with History	3.00	20	T 3:00-5:20PM
AS.389.361	01	H		Introduction to Material Culture: Trades and Training in Early Baltimore	3.00	12	W 1:30-3:50PM

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Arthur, Catherine Rogers

Students explore early American life relating to the region and Homewood House. Primary research, object study culminate in exhibit focused on trades and crafts, training and work practices. M&S practicum course. Meets at Homewood Museum.
Cross-listed with History.

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History of Art

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.010.101	01	H	W	Intro to History Eur Art <i>Kessler, Herbert Leon</i> A survey of painting, sculpture, and architecture from Egyptian, Greek, Roman, and medieval culture.	4.00	25	F 9:00-9:50AM; MW 12:00-1:15PM
AS.010.101	02	H	W	Intro to History Eur Art	4.00	25	F 10:00-10:50AM; MW 12:00-1:15PM
AS.010.101	03	H	W	Intro to History Eur Art	4.00	25	F 11:00-11:50AM; MW 12:00-1:15PM
AS.010.101	04	H	W	Intro to History Eur Art	4.00	25	F 12:00-12:50PM; MW 12:00-1:15PM
AS.010.147	01	H		South Asian Art, Culture and Politics: Empire, Colony, Nation <i>Brown, Rebecca Mary</i> This course explores the visual culture and politics of South Asia from early archaeological settlements to contemporary installation art. Themes will include: the role of the patron, the relation of text and image, architecture and ritual/political space, colonialism, nationalism, modernity, and postcoloniality. Cross-listed with Political Science	3.00	25	TTh 9:00-10:15AM
AS.010.291	01	H	W	Architectural History of Baltimore <i>Perschler, Martin</i> Focusing on Baltimore's built environment and drawing upon primary sources, this course will explore the major European and American design theories, values, and practices of the last several centuries with an eye towards establishing Baltimore's place within a national and global urban environmental context. Topics addressed in this course include city building, class and race, architectural revivalism, transportation, urban renewal, and post-industrialism.	3.00	10	M 7:00-9:30PM
AS.010.291	02	H	W	Architectural History of Baltimore	3.00	5	M 7:00-9:30PM
AS.010.291	03	H	W	Architectural History of Baltimore	3.00	5	M 7:00-9:30PM
AS.010.291	04	H	W	Architectural History of Baltimore	3.00	5	M 7:00-9:30PM
AS.010.320	01	H	W	Art of Colonial Peru <i>Deleonardis, Lisa</i> In this course we consider the painting, sculpture, and architecture of viceregal Peru (ca. 1520-1825) within the dynamic historical context of colonial society. Documentary sources inform our study by providing both institutional and personal accounts of events, histories, philosophies, and rebellion. We examine the role of religious orders, artisan guilds and <i>cofradía</i> , and consider the social and political implications of art patronage.	3.00	25	TTh 3:00-4:15PM
AS.010.332	01	H		Matisse, Picasso, and Twentieth-Century Art <i>Melius, Jeremy</i> An exploration of key moments in early twentieth-century modernism (c. 1900-1950) by way of close examination of two giants of modern art.	3.00	25	TTh 10:30-11:45AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.010.340	01	H		Renaissance Art in the Netherlands, 1400-1500 <i>Merback, Mitchell</i> Explores the major painters working in the Low Countries during the fifteenth century: Melchior Broederlam, the Master of Flémalle, Jan van Eyck, Rogier van der Weyden; Hans Memling, Hugo van der Goes, Hieronymus Bosch, and others.	3.00	20	TTh 12:00-1:15PM
AS.010.351	01	H		Asian Art After 1945 <i>Brown, Rebecca Mary</i> This course examines the art and architecture of East, South, and Southeast Asia produced since the mid-twentieth century. We will engage with theoretical, visual, and political developments in the recent art of this region, reading statements by artists and architects, discussing the rising commercial and international profile of contemporary Asian art, and exploring established and emerging art histories of this period. Cross-list with East Asian Studies	3.00	15	TTh 10:30-11:45AM
AS.010.357	01	H		Monumentality in Classical Art and Architecture: From Greece to Rome <i>Tucci, Pier Luigi</i> This course investigates the Romans' reception of Greek and Hellenistic art and architecture, as well as Rome's original contribution during the republican and imperial age. Its goal is to examine the effects of Hellenization on Roman society and the creation of a completely new visual language.	3.00	25	TTh 4:30-5:45PM
AS.010.365	01	H	W	Art of the Ancient Andes <i>Deleonardis, Lisa</i> Course surveys the visual arts of Andean South America and includes discussion of royal Inka tunics, Nasca death imagery and the gold sculptural traditions of Colombia.	3.00	25	TTh 10:30-11:45AM
AS.010.440	01	H		Velázquez and 17th Spanish Naturalism <i>Pereda, Felipe</i> An introduction to Spanish Baroque painting, with specific attention to the emergence of naturalism in the work of Diego Velázquez, Francisco de Zurbarán, Murillo and Ribera. This course is open to graduate students.	3.00	25	MW 3:00-4:15PM
AS.010.459	01	H		The Art and Architecture of Rome in the Middle Ages <i>Kessler, Herbert Leon</i> Tracing the Rome's transformation from Constantine's conversion to Giotto's work in the Vatican, the seminar considers how the ancient heritage was put to work for Christianity and how major intellectual movements shaped the Christian capital on the Tiber. Students will present research papers. This course is open to graduate students.	3.00	20	M 2:30-5:00PM
AS.130.329	01	H	W	Ancient Egyptian Art and Archaeology <i>Bryan, Betsy Morrell</i> Co-listed (meets with) AS.133.750	3.00	25	TTh 1:30-3:00PM
AS.389.201	01	HS		Introduction to the Museum: Past and Present <i>Rodini, Elizabeth</i>	3.00	25	TTh 1:30-2:45PM

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History of Art

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
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This course surveys museums, from their origins to their most contemporary forms, in the context of broader historical, intellectual, and cultural trends. Anthropology, art, history, and science museums are considered. Cross-listed with Anthropology, History, History of Art.

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History of Science & Technology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.140.105	01	HS		History of Medicine <i>Fissell, Mary E</i> Course provides an overview of the medical traditions of six ancient cultures; the development of Greek and Islamic traditions in Europe; and the reform and displacement of the Classical traditions during the Scientific Revolution. Cross-listed with Public Health Studies	3.00	15	F 10:00-10:50AM; MW 10:00-10:50AM
AS.140.105	02	HS		History of Medicine	3.00	15	F 10:00-10:50AM; MW 10:00-10:50AM
AS.140.105	03	HS		History of Medicine	3.00	15	MW 10:00-10:50AM; F 10:00-10:50AM
AS.140.105	04	HS		History of Medicine	3.00	15	MW 10:00-10:50AM; F 10:00-10:50AM
AS.140.105	05	HS		History of Medicine	3.00	15	F 10:00-10:50AM; MW 10:00-10:50AM
AS.140.111	01	HS		Freshman Seminar: When Worlds Collide: Western Science Goes Global <i>Portuondo, Maria M</i> We will explore instances of first contact between different world cultures and western science (16th-20th c.). Some cases considered include Jesuits in the Chinese imperial court, Spanish missionaries and the Maya.	3.00	15	TTh 10:30-11:45AM
AS.140.306	01	HS		Science And Religion <i>Principe, Lawrence</i> Science and religion are crucial influences on Western culture. This course examines their interrelations during the past 2000 years, including the Athens-Jerusalem debate, medieval theology, the Galileo affair, evolution, and current issues.	3.00	15	F 11:00-11:50AM; MW 11:00-11:50AM
AS.140.306	02	HS		Science And Religion	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.140.311	01	HS		Ecology, Health, and the Environment <i>Kingsland, Sharon E</i> A historical look at environmental problems, ideas of planetary stewardship, and history of environmental sciences. Students will do research projects. Cross-listed with GECS	3.00	30	TTh 9:00-10:15AM
AS.140.320	01	HS		Modernity on Display: Technology and Ideology in the Era of World War II <i>Kargon, Robert H</i> Seminar focuses on ideological warfare over technological modernity at world's fairs 1937-1942. France, United States, Japan, Germany and Italy.	3.00	20	W 3:00-5:20PM
AS.140.354	01	HS		Science, Technology and Society in Modern East Asia <i>Kim, Dong-won</i> The course aims to survey the history of science and technology in East Asian countries—China, Japan and Korea—since the late 19th century. Since Japan was the only nation in East Asia that succeeded in modernizing itself by adopting western science, technology and politics, it will be studied first. The Chinese and Korean cases then will be reviewed from different angles. The course will emphasize the mutual influence between science & technology and society to answer how they became major industrial powers in the 21st century. Cross-listed with East Asian Studies.	3.00	25	TTh 1:30-2:20PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.140.411	01	HS		Senior Research Seminar <i>Portuondo, Maria M</i> For majors pursuing independent research.	2.00	20	TBA
AS.140.413	01	HS	W	The White Plague: History of Tuberculosis <i>Mooney, Graham</i> Examination of interrelated scientific, medical, social, and cultural dimensions of tuberculosis from early modernity to the present in various geographical and cultural settings. Extensive reading, research based on primary sources. Cross-listed with History, Anthropology	3.00	15	T 2:00-4:30PM

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Humanities Center

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.300.209	01	H		Chinese Literature and Culture of the Ancient and Early Medieval periods <i>Cass, Victoria B</i> TEXTS TO BE READ IN CHINESE: PREREQUISITE: TWO YEARS OF MANDARIN. We will read selections in the original, as well scholarship and criticism concerning the texts. We will consider issues specific to the variety of texts: the social and political context of the "philosophical schools" and writers, the religious and ritual contexts of medical literature and poetry, especially the Elegies of Chu (Chu Ci), the development of literati traditions and the craft of historiography, artistic responses to the collapse of the Han, and the rise of religious literatures of the Six Dynasties. We will introduce aspects of classical language texts: complex form characters, classical Chinese grammar and classical Chinese semantic values. Written assignments, classroom exercises and tests will be based on developing skills in reading and writing classical Chinese; however, tests, discussions, one short paper and one research paper will require interpretation of larger issues pertinent to the texts.	3.00	20	TTh 9:00-10:15AM
AS.300.319	01	H	W	Skepticism and Theology <i>Dika, Tarek</i> This course examines the relation between the history of philosophical theology and the foundations of modern skepticism by focusing on their mutual point of departure: the concept of the human being as an essentially "finite" being "limited" in its capacity to know others, the world, and God.	3.00	17	T 3:00-6:00PM
AS.300.337	01	H	W	Israeli and Palestinian Cinema <i>Stahl, Neta</i> Palestinian and Israeli cinemas have emerged side by side, each depicting its Other as a deceiving mirror of its own self. This course will explore the different images of these Others in both cinemas and study their political, historical and sociological contexts.	3.00	35	T 1:30-3:50PM
AS.300.351	01	H	W	Literature and Hasidism: The Tales of Nachman of Berslov <i>Stahl, Neta</i> This course explores the tales of Nachman of Berslov as a literary, cultural and theological phenomenon. We will trace the Kabbalistic and messianic elements in these tales and evaluate their place and role within the wider context of Hassidic literature.	3.00	35	Th 1:30-3:50PM
AS.300.359	01	H		Homelessness in America: Interdisciplinary and Critical Perspectives <i>Gottbreht, Thomas Scott</i> This course examines innovative research, writings, and other media concerning homelessness in the United States, with special emphasis on critical/philosophical and interdisciplinary approaches that shed new light on the issue.	3.00	15	TTh 3:00-4:15PM
AS.300.361	01	H	W	Fiction & Case History: Constructive Reading	3.00	15	Th 4:00-6:30PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Macksey, Richard A</i> A comparative seminar in the attentive reading of short fictions and other narratives. Attention to the reader's share as well as that of the author in the construction of stories; consideration of the diagnostic and therapeutic uses of the imagination.			
AS.300.367	01	H	W	Seeing Like a Woman <i>Eakin Moss, Anne</i> This seminar examines the problems of female desire, subjectivity, spectatorship and performance in fiction, poetry, memoir and film from a variety of cultures and theoretical perspectives. Readings include: Leo Tolstoy's "Family Happiness," Virginia Woolf's Orlando, Nella Larsen's Passing; Poetry by Moore, Bishop, Plath, Akhmatova, Tsvetaeva and Szyborska. Films by Deren, Hitchcock, Campion, Akerman, Varda, Denis.	3.00	15	Th 1:30-3:50PM
AS.300.393	01	H		Everyday: Realism in the 19th- and 20th-Century Novel <i>Ong, Yi-Ping</i> The ordinary, the common, the everyday: why does literary realism consider the experiences of the average individual to be worthy of serious contemplation? In this course, we will read works by Austen, Flaubert, Dickens, Zola, Eliot, Mann, Tolstoy, and Woolf in the context of critical theories of realism.	3.00	25	T 1:30-3:50PM
AS.300.397	01	H		How Freud Changed the Way We Think <i>Leys, Ruth</i> An examination of aspects of the history and theory of psychoanalysis, focusing on the question of origins in Freud's work. Texts by Freud, Laplanche, Lacan, Derrida, and others.	3.00	20	Th 1:30-3:50PM
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i> Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Machiavelli, Shakespeare, Flaubert, Douglass, and Woolf, as well as musical compositions by Bach and Ravel.	3.00	15	TTh 10:30-11:45AM
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	03	H	W	Great Books at Hopkins <i>Coleman, James</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	04	H	W	Great Books at Hopkins <i>Talle, Andrew</i>	3.00	15	TTh 10:30-11:45AM
AS.361.130	01	HS	W	Introduction to Latin American Studies <i>Ramsdell, Lea A</i>	3.00	30	TTh 10:30AM-11:15PM

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				Within the background of a chronological frame that starts with early Amer-Indian civilizations and moves on to issues in contemporary culture and politics, the course introduces students to an interdisciplinary understanding of Latin American History and Culture. The course draws from historical geography, anthropology, history, politics and art, film and literature. Cross-list with GRLL, Anthropology, Humanities Center, and History.			
AS.371.149	01	H		Visual Reality <i>Bakker, D.S.</i> Prereq: Imagination Freshmen by permission only In art, "Realism" is a simulation of visual reality. But art can also simulate alternative realities, those realities or truths which exist only in daydreams or nightmares. In this class, we will learn to explore and create representations of these additional moments of existence. This will require thinking creatively or "outside the box," a useful skill in any field. Using a variety of media, students are asked to solve problems to which there is no one correct answer.	3.00	12	F 1:30-4:20PM
AS.371.151	01	H		Photoshop/Dig Darkroom <i>Ehrenfeld, Howard</i> Photoshop and the Digital Darkroom 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.	3.00	10	M 10:00AM-12:50PM
AS.371.152	01	H		Introduction to Digital Photography <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.	3.00	10	T 10:00AM-12:50PM
AS.371.162	01	H		Black & White: Digital Darkroom <i>Berger, Phyllis A</i>	3.00	10	F 10:00AM-12:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Attendance at 1st class is mandatory. In this digital course, students explore the black-and-white aesthetic. They develop camera skills on numerous field trips including Ladew Topiary Gardens, the Maryland Zoo & Botanical Gardens, and an optional weekend trip to Cape Henlopen State Park in Delaware. Students meet frequently for critiques and discussions based on historic and contemporary imagery. They will learn to use Photoshop for image adjustment. Techniques such as high dynamic range, duotone, panorama and infrared will be covered. Students work on a project of their choice and produce a portfolio of ten prints. Digital SLRs are provided.			
AS.371.162	02	H		Black & White: Digital Darkroom	3.00	10	W 10:00AM-12:50PM
AS.371.303	01	H		Documentary Photography <i>Berger, Phyllis A</i>	3.00	9	F 2:00-4:50PM
				In this course, we will explore different genres of documentary photography, including the fine art document, photojournalism, social documentary photography, the photo essay and photography of propaganda. Students will work on a semester-long photo-documentary project on a subject of their choice. Digital SLRs will be provided.			

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Interdepartmental

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i> Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Machiavelli, Shakespeare, Flaubert, Douglass, and Woolf, as well as musical compositions by Bach and Ravel.	3.00	15	TTh 10:30-11:45AM
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	03	H	W	Great Books at Hopkins <i>Coleman, James</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	04	H	W	Great Books at Hopkins <i>Talle, Andrew</i>	3.00	15	TTh 10:30-11:45AM
AS.360.147	01	HS	W	Adam Smith and Karl Marx <i>Jelavich, Peter</i> Freshmen Seminar. This freshmen seminar examines the ideas of Smith, the greatest proponent of the free market, and Marx, his most radical critic. Freshmen only.	3.00	20	W 1:30-4:00PM
AS.360.431	01		W	Senior Thesis Seminar: East Asian Studies <i>Andreas, Joel</i> Starting the 2008-2009 academic year, students may earn honors in the East Asian Studies major by maintaining a 3.7 average in the major and completing a senior thesis by taking the year-long 360.431 Senior Thesis Seminar: East Asian Studies.	3.00	30	T 1:30-3:20PM
EN.570.428	01	S	W	Problems in Applied Economics <i>Hanke, Steve H</i> Prerequisites 180.101-102 – Permission Required. This is a research course with an internship component. The research component is presented during a weekly (1 hour) seminar. It focuses on the development and application of the Hanke-Guttridge valuation model. Students apply the model to value publically traded companies. The internship component is given in conjunction with private businesses and financial institutions, governmental entities, and economic research institutes.	3.00	29	TBA

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Jewish Studies Program

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.060.375	01	H	W	Literature of the Holocaust <i>Sundquist, Eric J</i> The course will focus on reactions to, and representations of, the Holocaust in European, Israeli, and American literature. In moving from the initial response of eyewitness testimony, through the emergence of fiction as one means to test the adequacy of historical accounts and memoirs, and on to more recent reflections on the problem of adequately "remembering" the event, we will consider how the Nazi genocide has entered into world consciousness. What does it mean to have an artistic or aesthetic response to such an event? Why has the Holocaust assumed such a significant role in contemporary life that there are entire genres of literature and film devoted to it? Readings will include: Wiesel, "Night"; Borowski, "This Way for the Gas, Ladies and Gentlemen"; Delbo, "Auschwitz and After"; Kosinski, "The Painted Bird"; Wallant, "The Pawnbroker"; Grossman, "See Under: Love"; Ozick, "The Shawl"; Epstein, "King of the Jews"; Roth, "The Plot against America"; and Semel, "And the Rat Laughed". Cross-listed with Jewish Studies.	3.00	18	Th 1:30-3:50PM
AS.100.415	01	HS	W	Papyrus, Parchment, and Paper <i>Rustow, Marina</i> The diffusion of writing before the industrial age, especially around the Mediterranean, the preservation of lightweight, portable texts; modern discoveries (Oxyrhynchus, Dead Sea Scrolls, Nag Hammadi, Cairo Geniza).	3.00	12	Th 2:00-5:30PM
AS.130.140	01	H		Hebrew Bible / Old Testament <i>Lewis, Theodore</i>	3.00	100	TTh 12:00-1:30PM
AS.130.301	01	H		History of Ancient Syria-Palestine <i>McCarter, P Kyle, Jr.</i>	3.00	40	MW 12:00-1:30PM
AS.130.348	01	H		Religious Law Wrestles With Change: The Case of Judaism <i>Katz, David</i> Description: "How does a religious system which defines its ancient laws as God-given and unchangeable apply them to radically different and changing social, political and intellectual situations? This course explores the literature of "Questions and Answers"(She'elot u-Teshuvot), the Jewish legal responsa which have struggled to match Jewish religious law to modern life for fifteen centuries. A sweeping survey of Jewish history as revealed by one of its most impenetrable yet fascinating sources. Cross-listed with Jewish Studies	3.00	100	TTh 9:00-10:30AM

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AS.130.366	01	H		<p>Reading the Talmud in Pre-modern Jewish Culture. Attempting to Cope With Abusive Husbands: Annulment of Marriage in the Literature of Post Talmudic Rabbinic Judaism</p> <p><i>Katz, David</i></p> <p>The evolution of Talmudic thinking resulted in laws which made marriage too easy, divorce too difficult. This generated centuries of attempts to grapple with the consequences of this conundrum in real-life situations. This course analyzes the literature produced by these attempts. Students will read texts in original Hebrew.</p>	3.00	100	TTh 10:30-11:45AM
AS.130.367	01	H		<p>Jerusalem: The Holy City in History and Archaeology</p> <p><i>Staff</i></p> <p>Jerusalem has a global significance utterly disproportionate to its size or wealth, and it has been this way since the days when the city was first settled. On the one hand, this is due to Jerusalem's role as a sacred space for all three of the world's largest monotheistic religions: Christianity, Islam, and Judaism. On the other, Jerusalem has long been the fulcrum of geopolitical struggles in the Middle East and beyond. This lecture course explores Jerusalem's political, cultural, and religious trajectory over the past three millennia through the lens of the city's amazingly rich historical and archaeological records. In so doing, we unravel the mythical and historical threads that combine to create the powerful symbolic resonance of Jerusalem today, discovering en route that, when it comes to Jerusalem, identifying what is "myth" and what is "history" is a complex and contested undertaking.</p>	3.00	80	MWF 3:00-3:50PM
AS.150.492	01	H		<p>Spinoza and Medieval Jewish Philosophy</p> <p><i>Brandau, John Alexander</i></p> <p>This course is an in-depth study of Spinoza's Ethics. We will go through the main metaphysical and moral doctrines of the Ethics and discuss recent interpretative controversies. Special attention will be given to the influence of medieval Jewish philosophy, and the way it illuminates our understanding of Spinoza's philosophy.</p>	3.00	25	TTh 12:00-1:15PM
AS.190.344	01	S	W	<p>Seminar In Anti-Semitism</p> <p><i>Ginsberg, Benjamin</i></p>	3.00	15	W 1:30-3:50PM

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Jewish Studies Program

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				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.210.163	01			Elementary Yiddish I <i>Caplan, Beatrice</i> Year-long course. Includes the four language skills--reading, writing, listening, and speaking--and introduces students to Yiddish culture through text, song, and film. Emphasis is placed both on the acquisition of Yiddish as a tool for the study of Yiddish literature and Ashkenazic history and culture, and on the active use of the language in oral and written communication. Both semesters must be taken with a passing grade to receive credit. Course coordinator: Deborah Mifflin	3.00	12	TTh 12:00-1:15PM
AS.211.253	01	H		Why is the Fiddler on the Roof?: The Shtetl in Modern Jewish Culture <i>Caplan, Beatrice</i> The most familiar portrayal of the shtetl for an American audience is the setting of the Broadway musical Fiddler on the Roof, where the shtetl, or market town, is a bastion of traditional Jewish life. But what exactly was a shtetl? How did traditional Jews live there, and how were their lives affected by the sweep of modernity? How was the Yiddish language, spoken by all shtetl Jews, both a repository of tradition and an agent of change? How do representations of the shtetl--from corrupt backwater to pious haven--reflect the concerns of Jews from the nineteenth century up to our own day? Through memoir, literature, film and painting, this course will examine actual lives lived in the shtetl, as well as a selection of the many artistic representations of it. All readings will be in English.	3.00	15	TTh 9:00-10:15AM
AS.211.434	01	H		Ink & Blood: The Battle of Rhetoric Around the Dreyfus Affair <i>Cook-Gailloud, Kristin</i>	3.00	15	MWF 12:00-12:50PM

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				<p>This course proposes to look at persuasive strategies that were engaged during the Dreyfus Affair in order to either incriminate or discriminate the Jewish captain falsely accused of having betrayed the French army. Course will focus on the socio-political events that framed the Dreyfus Affair (anti-Semitism in 19th-century France, caricatures and polemical writings in the press, the consequences of the Franco-Prussian War and of the Commune, the bipolar division that split French society into Dreyfusards and anti-Dreyfusards), as well as its long-term effects (the rise of the extreme right, the creation of the "intellectual", the consolidation of Zionism which ultimately led to the creation of a Jewish state).</p> <p>Prerequisites: 210.301-302 or 210.301 or permission of instructor.</p>			
AS.213.253	01	H		<p>Freshman Seminar: The Berlin Wall - Divided Stories in Literature & Film <i>Strowick, Elisabeth</i></p> <p>With the fall of the Berlin Wall in 1989, one of the most powerful symbols of the Cold War came down. For decades, the division between East and West Germany had been a decisive factor in German literature and film from both states in several respects. Political censorship in the GDR and West German publishing policies determined the conditions for art production. They created specific audiences and shaped the role of the public intellectual. The Berlin Wall could also be said to have contributed to certain trends like the aesthetics of coldness and the poetics of observation. The course examines the relationship between aesthetics and politics in German-German literature and film from 1961 to the present. Readings include: Christa Wolf, Uwe Johnson, Reiner Kunze, Peter Schneider, Ingo Schulze, Anna Funder. Films: Wings of Desire (Wim Wenders, 1987), The Leading Role (Harun Farocki, 1994), The Tunnel (Roland Suso Richter, 2001), Good Bye, Lenin! (Wolfgang Becker, 2003), The Lives of Others (von Donnersmarck, 2007), Yella (Christian Petzold, 2007). The course will be taught in English.</p>	3.00	15	TTh 12:00-1:15PM
AS.213.403	01	H		<p>Women and Their Representation in Modern Jewish Literature <i>Caplan, Marc</i></p>	3.00	50	WF 12:00-1:15PM

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Jewish Studies Program

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				If the development of modern literary forms such as the novel, the short story, and the autobiography in Jewish languages commences at a much later date than in other European cultures, the participation of women in the cultivation of these literary forms in Yiddish or Hebrew begins even later: only at the very beginning of the 20th century. What are some of the cultural and historical factors that account for this belatedness? How were women depicted in Jewish literature prior to their entry into the literary marketplace? How does the late start of female writers in these languages affect the formal and political character of their writing? What do aesthetic differences between poetry and prose genres signify about this writing? How do cultural assumptions in Jewish languages differentiate women's writing from similar forms and genres in other languages? These questions, among others, will be considered with reference to a variety of narratives and poems taken from Yiddish, Hebrew, German, and English sources. Authors to be considered will include Esther Singer Kreitman, Anna Margolin, Kadya Molodowsky, Chava Rosenfarb, Rachel Bluwstein, Leah Goldberg, Orly Castel-Bloom, Else Lasker-Schüller, and Gertrude Stein. All readings and discussions in English.			
AS.300.337	01	H	W	Israeli and Palestinian Cinema <i>Stahl, Neta</i> Palestinian and Israeli cinemas have emerged side by side, each depicting its Other as a deceiving mirror of its own self. This course will explore the different images of these Others in both cinemas and study their political, historical and sociological contexts.	3.00	35	T 1:30-3:50PM
AS.300.351	01	H	W	Literature and Hasidism: The Tales of Nachman of Berslov <i>Stahl, Neta</i> This course explores the tales of Nachman of Berslov as a literary, cultural and theological phenomenon. We will trace the Kabbalistic and messianic elements in these tales and evaluate their place and role within the wider context of Hassidic literature.	3.00	35	Th 1:30-3:50PM
AS.384.115	01			First Year Hebrew <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	15	MTWTh 9:00-9:50AM
AS.384.215	01	H		Second Year Hebrew <i>Cohen, Zvi</i> Prereqs: 384.115 and 384.116 or 130.450 and 451 Designed to enrich vocabulary and provide intensive grammatical review, and enhance fluency in reading, writing and comprehension. Cross-listed with Jewish Studies.	4.00	10	MW 10:00-10:50AM; TTh 10:30-11:20AM
AS.384.315	01	H		Third Year Hebrew <i>Cohen, Zvi</i>	4.00	10	MTWTh 1:30-2:20PM

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Jewish Studies Program

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
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Prereqs: 384.215 and 384.216 or 130.452 and 130.453

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

Cross-listed with Jewish Studies.

Fall 2012

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Mathematics

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

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Mathematics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Differential and integral calculus. Includes analytic geometry, functions, limits, integrals and derivatives, polar coordinates, parametric equations, Taylor's theorem and applications, infinite sequences and series. Some applications to the physical sciences and engineering will be discussed, and the courses are designed to meet the needs of students in these disciplines.			
AS.110.109	02	Q		Calculus II	4.00	30	MWF 10:00-10:50AM; T 3:00-3:50PM
AS.110.109	03	Q		Calculus II	4.00	30	MWF 10:00-10:50AM; Th 4:30-5:20PM
AS.110.109	04	Q		Calculus II	4.00	15	MWF 10:00-10:50AM; Th 3:00-3:50PM
AS.110.109	05	Q		Calculus II	4.00	30	MWF 10:00-10:50AM; T 1:30-2:20PM
AS.110.109	06	Q		Calculus II	4.00	30	MWF 11:00-11:50AM; T 3:00-3:50PM
AS.110.109	07	Q		Calculus II	4.00	30	MWF 11:00-11:50AM; T 1:30-2:20PM
AS.110.109	08	Q		Calculus II	4.00	30	MWF 11:00-11:50AM; Th 3:00-3:50PM
AS.110.109	09	Q		Calculus II	4.00	30	MWF 11:00-11:50AM; Th 4:30-5:20PM
AS.110.109	10	Q		Calculus II	4.00	15	MWF 11:00-11:50AM; Th 3:00-3:50PM
AS.110.113	01	Q		Honors One Variable Calculus <i>Lind, John</i> This is an honors alternative to the Calculus sequences 110.106-107 or 110.108-109 and meets the general requirement for both Calculus I and Calculus II (although the credit hours count for only one course). It is a more theoretical treatment of one variable differential and integral calculus and is based on our modern understanding of the real number system as explained by Cantor, Dedekind, and Weierstrass. Students who want to know the "why's and how's" of Calculus will find this course rewarding. Previous background in Calculus is not assumed. Students will learn differential Calculus (derivatives, differentiation, chain rule, optimization, related rates, etc), the theory of integration, the fundamental theorem(s) of Calculus, applications of integration, and Taylor series. Prerequisite: A strong ability to learn mathematics quickly and on a higher level than that of the regular Calculus sequences.	4.00	25	MW 1:30-2:45PM; F 1:30-2:20PM
AS.110.201	01	Q		Linear Algebra <i>Gjoneski, Oliver</i> Prereq: Calculus Vector spaces, matrices, and linear transformations. Solutions of systems of linear equations. Eigenvalues, eigenvectors, and diagonalization of matrices. Applications to differential equations.	4.00	25	MWF 10:00-10:50AM; T 1:30-2:20PM
AS.110.201	02	Q		Linear Algebra	4.00	25	MWF 10:00-10:50AM; T 3:00-3:50PM
AS.110.201	03	Q		Linear Algebra	4.00	25	MWF 10:00-10:50AM; T 4:30-5:20PM
AS.110.201	04	Q		Linear Algebra	4.00	25	MWF 10:00-10:50AM; Th 1:30-2:20PM
AS.110.201	05	Q		Linear Algebra	4.00	25	MWF 10:00-10:50AM; Th 3:00-3:50PM
AS.110.202	01	Q		Calculus III <i>Gomez, Jose</i> Calculus of functions of more than one variable: partial derivatives, and applications; multiple integrals, line and surface integrals; Green's Theorem, Stokes' Theorem, and Gauss' Divergence Theorem.	4.00	30	MWF 11:00-11:50AM; T 1:30-2:20PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.110.202	02	Q		Calculus III	4.00	30	MWF 11:00-11:50AM; T 3:00-3:50PM
AS.110.202	03	Q		Calculus III	4.00	30	MWF 11:00-11:50AM; Th 4:30-5:20PM
AS.110.202	04	Q		Calculus III	4.00	30	MWF 11:00-11:50AM; Th 3:00-3:50PM
AS.110.202	05	Q		Calculus III	4.00	30	MWF 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 1:30-2:20PM
AS.110.202	09	Q		Calculus III	4.00	30	MWF 12:00-12:50PM; T 3:00-3:50PM
AS.110.211	01	Q		Honors Multivariable Calculus <i>Staff</i> This course includes the material in Calculus III (202) with some additional applications and theory. Recommended for mathematically able students majoring in physical science, engineering, or especially mathematics. 110.211-212 used to be an integrated yearlong course, but now the two are independent courses and can be taken in either order.	4.00	40	MW 12:00-1:15PM; F 12:00-12:50PM
AS.110.212	01	Q		Honors Linear Algebra <i>Wilson, W Stephen</i> This course includes the material in Linear Algebra (201) with some additional applications and theory. Recommended for mathematically able students majoring in physical science, engineering, or mathematics. 211-212 used to be an integrated yearlong course, but now the two are independent courses and can be taken in either order. This course satisfies a requirement for the math major that its non-honors sibling does not.	4.00	30	MW 1:30-2:45PM; F 1:30-2:20PM
AS.110.302	01	EQ		Diff Equations/Applic <i>Brown, Richard</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	35	MWF 12:00-12:50PM; T 1:30-2:20PM
AS.110.302	02	EQ		Diff Equations/Applic	4.00	35	MWF 12:00-12:50PM; T 3:00-3:50PM
AS.110.302	03	EQ		Diff Equations/Applic	4.00	35	MWF 12:00-12:50PM; Th 3:00-3:50PM
AS.110.302	04	EQ		Diff Equations/Applic	4.00	35	MWF 1:30-2:20PM; T 4:30-5:20PM
AS.110.302	05	EQ		Diff Equations/Applic	4.00	35	Th 1:30-2:20PM; MWF 1:30-2:20PM
AS.110.302	06	EQ		Diff Equations/Applic	4.00	35	Th 3:00-4:20PM; MWF 1:30-2:20PM
AS.110.304	01	Q		Elementary Number Theory <i>Wilson, W Stephen</i>	4.00	50	TTh 9:00-10:15AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.110.311	01	Q		<p>The student is provided with many historical examples of topics, each of which serves as an illustration of and provides a background for many years of current research in number theory. Primes and prime factorization, congruences, Euler's function, quadratic reciprocity, primitive roots, solutions to polynomial congruences (Chevalley's theorem), Diophantine equations including the Pythagorean and Pell equations, Gaussian integers, Dirichlet's theorem on primes.</p> <p>Methods/Complex Analysis <i>Kong, Jian</i></p> <p>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.</p>	4.00	40	TTh 12:00-1:15PM
AS.110.401	01	Q		<p>Advanced Algebra I <i>Consani, Caterina</i></p> <p>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.</p>	4.00	40	MW 12:00-1:15PM; F 12:00-12:50PM
AS.110.405	01	Q		<p>Introduction to Real Analysis <i>Okikiolu, Kate</i></p> <p>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.</p>	4.00	55	MW 1:30-2:45PM; F 1:30-2:20PM
AS.110.415	01	Q		<p>Honors Analysis I <i>Tohaneanu, Mihai</i></p> <p>This highly theoretical sequence in analysis is reserved for the most able students. The sequence covers the real number system, metric spaces, basic functional analysis, the Lebesgue integral, and other topics.</p>	4.00	25	MW 1:30-2:45PM; F 1:30-2:20PM
AS.110.427	01	Q		<p>Intro Calc of Variations <i>Yuan, Yuan</i></p>	4.00	25	TTh 10:30-11:45AM; F 1:30-2:20PM

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Mathematics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				The calculus of variations is concerned with finding optimal solutions (shapes, functions, etc.) where optimality is measured by minimizing a functional (usually an integral involving the unknown functions) possibly with constraints. This introductory (self-contained) course will cover one dimensional problems (often geometric): brachistochrone, geodesics, minimum surface area of revolution, isoperimetric problem, curvature flows. Additional material as required (some differential geometry of curves and surfaces) holding prerequisites to a minimum.			
AS.110.439	01	Q		Intro to Diff Geometry <i>Tohaneanu, Mihai</i>	4.00	35	TTh 1:30-2:45PM
				Linear Algebra Theory of curves and surfaces in Euclidean space: Frenet equations, fundamental forms, curvatures of a surface, theorems of Gauss and Mainardi-Codazzi, curves on a surface; introduction to tensor analysis and Riemannian geometry; theorema egregium; elementary global theorems.			
AS.110.443	01	EQ		Fourier Analysis <i>Staff</i>	4.00	25	TTh 3:00-4:15PM
				An introduction to the Fourier transform and the construction of fundamental solutions of linear partial differential equations. Homogeneous distributions on the real line: the Dirac delta function, the Heaviside step function. Operations with distributions: convolution, differentiation, Fourier transforms. Construction of fundamental solutions of the wave, heat, Laplace and Schrödinger equations. Singularities of fundamental solutions and their physical interpretations (e.g., wave fronts). Fourier analysis of singularities, oscillatory integrals, method of stationary phase.			

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Military Science

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

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Military Science

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

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

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Military Science

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

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Music

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i> Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Machiavelli, Shakespeare, Flaubert, Douglass, and Woolf, as well as musical compositions by Bach and Ravel.	3.00	15	TTh 10:30-11:45AM
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	03	H	W	Great Books at Hopkins <i>Coleman, James</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	04	H	W	Great Books at Hopkins <i>Talle, Andrew</i>	3.00	15	TTh 10:30-11:45AM
AS.376.111	01			Rudiments-Music Theory <i>Crouch, John C.</i> This course introduces written and aural music fundamentals including notation, scales, intervals, chords, rhythm, meter and sight-singing. Students will compose melodies and short pieces and complete listening projects.	3.00	15	MWF 10:00-10:50AM
AS.376.111	02			Rudiments-Music Theory	3.00	15	MWF 12:00-12:50PM
AS.376.111	03			Rudiments-Music Theory <i>Hardaway, Travis</i>	3.00	15	TTh 9:00-10:15AM
AS.376.211	01			Theory & Musicianship I <i>Stone, Stephen C</i> Prereq: Qualifying examination or 376.111 Introduction to basic principles of tonal music through listening, analysis and music making. Students study melody, harmony, voice leading, figured bass and dissonance treatment, and will also undertake short composition projects.	3.00	15	MWF 1:30-2:20PM
AS.376.211	02			Theory & Musicianship I <i>Hardaway, Travis</i>	3.00	15	TTh 10:30-11:50AM
AS.376.212	01			Theory/Musicianship II <i>Crouch, John C.</i> Prereq: 376.211 This course continues the written and aural work of the previous course but focuses on chromatic harmony while continuing the study of melody, counterpoint and figured bass.	3.00	15	MWF 11:00-11:50AM
AS.376.214	01			Music Theory III - Formal Analysis <i>Levy, Sharon Gail</i> Prereq: 376.212 An examination of the musical forms of the Common Practice Period and the logic of their structures. Forms studied will include variation, binary, rounded binary, ternary, rondo, sonata-allegro, and sonata-rondo. Prerequisite: Music Theory and Musicianship II.	3.00	15	Th 1:30-3:50PM
AS.376.242	01	H		Intro To Popular Music <i>Smooke, David</i>	3.00	20	MW 3:00-3:50PM; F 3:00-3:50PM

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Music

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				A survey of the stylistic features and social contexts of American popular music since the 1950s.			
AS.376.242	02	H		Intro To Popular Music	3.00	20	F 3:00-3:50PM; MW 3:00-3:50PM
AS.376.242	03	H		Intro To Popular Music	3.00	20	F 3:00-3:50PM; MW 3:00-3:50PM
AS.376.250	01	H		Introduction to Computer Music <i>Lackey, Mark A</i>	3.00	12	MW 9:00-9:50AM; F 9:00-9:50AM
				Introduction to Computer Music is an opportunity for people with no specialized training in music to explore electronic art music as a long-standing, if obscure, body of art, then to participate in creative work in the style. Participants will gain a heuristic understanding of forms of musical composition that operate outside the conventions of regular rhythm and harmony as they record and manipulate sound to sculpt it into original musical works. The lecture portion combines an historical overview of electronic music, rudiments of acoustics and musical perception, and instruction in compositional techniques and in using computers as creative musical tools. The laboratory portion, given at the Digital Media Center, serves as a workshop for creative exploration and for the completion of assigned creative projects including original works of digital sound art.			
AS.376.252	01	H		Jazz History <i>Norris, Alexander Pope</i>	3.00	20	Th 1:30-3:50PM
				Survey, investigation, and study of Jazz music and how it shaped American history from it's origins to current times.			
AS.376.302	01	H	W	History of Opera from Monteverdi to Wagner <i>Saunders, Zoe</i>	3.00	20	W 1:30-3:50PM
				This course will provide a historical survey of opera from its origins in the early 17th century through the late 19th century. Focusing on a specific repertoire of works and representative genres of the tradition, we will emphasize critical listening and analytical skills to demonstrate characteristic musical, dramatic, literary, and sociological aspects of the operas under examination. We will also discuss contextual issues such as libretti, staging, operatic production, the role of singers, the reception of operas.			
AS.376.303	01	H	W	Musical Theater from Aristophanes to Leonard Bernstein <i>Weiss, Susan Forscher</i>	3.00	20	W 1:30-3:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
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This course examines the birth of musical theatre from Greek tragedy through the liturgical and secular plays of the middle ages and Renaissance, to the classical and romantic singspiels, operettas, and zarzuelas of the modern era, by such figures as Aristophanes, Adam de la Halle, Hildegard of Bingen, Angelo Poliziano, Juan del Encina, Wolfgang Amadeus Mozart, Gilbert and Sullivan, Ernesto Lecuona, Igor Stravinsky, and Kurt Weill. These will serve as a backdrop for a closer examination of the musicals of Jerome Kern, Cole Porter, George Gershwin, Irving Berlin, Richard Rodgers, Harold Arlen, Frank Loesser, Leonard Bernstein and others. In addition to studying and placing the works of these Broadway giants into a social, political, and economic context, we will study and perform from representative musicals and attend a performance at the Lyric Theatre. Student will be expected to write a capstone project.

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Near Eastern Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.040.137	01	H	W	Archaeology at the Crossroads: The Ancient Eastern Mediterranean through Objects in the JHU Archaeological Museum <i>Anderson, Emily S.K.</i> Limited to Freshmen. This seminar investigates the Eastern Mediterranean as a space of intense cultural interaction in the Late Bronze Age, exploring how people, ideas, and things not only came into contact but deeply influenced one another through maritime trade, art, politics, etc. In addition to class discussion, we will work hands-on with artifacts from the JHU Archaeological Museum, focusing on material from Cyprus. Cross-list with Museums and Society and Near Eastern Studies.	3.00	10	TTh 10:30-11:45AM
AS.040.363	01	H	W	Craft and Craftpersons of the Ancient World: Status, Creativity and Tradition <i>Anderson, Emily S.K.</i> This course explores the dynamic work and social roles of craftpersons in early Greece, the eastern Mediterranean and Near East. Readings and discussion will query the identities and contributions of these people—travelers, captives, lauded masters, and even children—through topics including gender, class, and ethnicity. Special focus on late third-early first millennia BCE; local field trips. Cross-listed with Near Eastern Studies.	3.00	15	T 3:00-5:30PM
AS.130.101	01	H		Ancient Near Eastern Civilizations <i>Schwartz, Glenn M</i>	3.00	80	TTh 10:30AM-12:00PM
AS.130.110	01	HS	W	Intro To Archaeology <i>McCarter, Susan</i> An introduction to archaeology and to archaeological method and theory, exploring how archaeologists excavate, analyze, and interpret ancient remains in order to reconstruct how ancient societies functioned. Specific examples from a variety of archaeological projects in different parts of the world will be used to illustrate techniques and principles discussed. Cross-listed with Anthropology	3.00	80	TTh 1:30-3:00PM
AS.130.140	01	H		Hebrew Bible / Old Testament <i>Lewis, Theodore</i>	3.00	100	TTh 12:00-1:30PM
AS.130.177	01	HS		World Prehistory <i>Harrower, Michael James</i> An introduction to the archaeology of pre- and protohistoric cultures in key regions of the world, from the Neolithic revolution to the rise of complex societies. Discussions will focus on how they interacted with their neighbors, how this interaction would have played a part in their development, and the different approaches archaeologists use to understand their interconnections. Regions to be examined include the Near East, the Aegean, East Africa, East Asia, the Andes, and Central America. Cross-listed with Anthropology	3.00	100	TTh 9:00-10:30AM
AS.130.251	01			Made for the Gods: Votive Egyptian Objects in the Archaeological Museum <i>Bryan, Betsy Morrell</i>	3.00	12	MW 12:00-1:15PM

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Near Eastern Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course investigates Egyptian votive objects made as gifts to the Gods. Students will learn about Egyptian religious practices and study groups of objects in the Archaeological Museum to learn to identify how they were produced, when, and for what functions. Physical analyses of the objects will be part of the class and Facilitated by museum staff.			
AS.130.301	01	H		History of Ancient Syria-Palestine <i>McCarter, P Kyle, Jr.</i>	3.00	40	MW 12:00-1:30PM
AS.130.329	01	H	W	Ancient Egyptian Art and Archaeology <i>Bryan, Betsy Morrell</i> Co-listed (meets with) AS.133.750	3.00	25	TTh 1:30-3:00PM
AS.130.348	01	H		Religious Law Wrestles With Change: The Case of Judaism <i>Katz, David</i> Description: "How does a religious system which defines its ancient laws as God-given and unchangeable apply them to radically different and changing social, political and intellectual situations? This course explores the literature of "Questions and Answers"(She'elot u-Teshuvot), the Jewish legal responsa which have struggled to match Jewish religious law to modern life for fifteen centuries. A sweeping survey of Jewish history as revealed by one of its most impenetrable yet fascinating sources. Cross-listed with Jewish Studies	3.00	100	TTh 9:00-10:30AM
AS.130.364	01	H		Archaeology of Arabia <i>Harrower, Michael James</i> This course examines the archaeology of the Arabian Peninsula from the earliest Paleolithic in the region (c. 1.5 million years ago) through the first few centuries of the Islamic era (c. 1000 AD). We will review basic geology and environmental conditions, examine the development of animal herding and crop cultivating lifeways, and scrutinize the rise of ancient South Arabian complex societies and civilizations. Co-listed with 131.664	3.00	15	TTh 12:00-1:15PM
AS.130.366	01	H		Reading the Talmud in Pre-modern Jewish Culture. Attempting to Cope With Abusive Husbands: Annulment of Marriage in the Literature of Post Talmudic Rabbinic Judaism <i>Katz, David</i> The evolution of Talmudic thinking resulted in laws which made marriage too easy, divorce too difficult. This generated centuries of attempts to grapple with the consequences of this conundrum in real-life situations. This course analyzes the literature produced by these attempts. Students will read texts in original Hebrew.	3.00	100	TTh 10:30-11:45AM
AS.130.367	01	H		Jerusalem: The Holy City in History and Archaeology <i>Staff</i>	3.00	80	MWF 3:00-3:50PM

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Near Eastern Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<p>Jerusalem has a global significance utterly disproportionate to its size or wealth, and it has been this way since the days when the city was first settled. On the one hand, this is due to Jerusalem's role as a sacred space for all three of the world's largest monotheistic religions: Christianity, Islam, and Judaism. On the other, Jerusalem has long been the fulcrum of geopolitical struggles in the Middle East and beyond. This lecture course explores Jerusalem's political, cultural, and religious trajectory over the past three millennia through the lens of the city's amazingly rich historical and archaeological records. In so doing, we unravel the mythical and historical threads that combine to create the powerful symbolic resonance of Jerusalem today, discovering en route that, when it comes to Jerusalem, identifying what is "myth" and what is "history" is a complex and contested undertaking.</p>			
AS.130.400	01	H		<p>Intro to Middle Egyptian <i>Jasnow, Richard</i></p> <p>Introduction to the grammar and writing system of the classical language of the Egyptian Middle Kingdom (ca. 2055-1650 B.C.). In the second semester, literary texts and royal inscriptions will be read.</p> <p>Course meets with AS.133.600</p>	3.00	16	F 1:30-2:30PM; MW 1:30-2:45PM
AS.130.440	01			<p>Elem Biblical Hebrew <i>Simone, Michael R.</i></p>	3.00	25	TBA

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Neuroscience

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.050.105	01	NS		Intro To Cognitive Neuropsychology <i>McCloskey, Michael E</i> When the brain is damaged or fails to develop normally, even the most basic cognitive abilities (such as the ability to understand words, or perceive objects) may be disrupted, often in remarkable ways. This course explores a wide range of cognitive deficits, focusing on what these deficits can tell us about how the normal brain works. Topics include brain anatomy and causes of brain damage, reading and spelling deficits, unilateral spatial neglect, hemispheric disconnection, cortical plasticity, and visual perception of location and orientation. Students read primary sources: journal articles that report deficits and discuss their implications. Cross-listed with Neuroscience.	3.00	125	TTh 1:30-2:45PM
AS.080.250	01	NS		Neuroscience Lab <i>Gorman, Linda K</i> Prereq: (080.305 and 080.306) or 200.141 or Permission of Instructor This course will give students the "hands-on" experience of the inter-disciplinary nature of neuroscience. Students will use anatomical and neuro-physiological techniques to understand the basic underlying principles of neuroscience.	3.00	20	T 1:30-4:20PM
AS.080.250	02	NS		Neuroscience Lab	3.00	20	Th 1:30-4:20PM
AS.080.250	03	NS		Neuroscience Lab	3.00	20	F 9:00-11:50AM
AS.080.305	01	N		The Nervous System I <i>Hendry, Stewart H</i> "No Freshmen" Prereq: 080.203 or 200.141 or 050.203 or 080.105 or Permission - The Nervous System is a fully integrated, two-semester course that surveys the cellular and molecular biology of neurons as well as the structure and function of the nervous system. Cross-listed with Biology.	3.00	196	TTh 1:30-2:45PM
AS.080.307	01			Neurobiology of Addiction <i>Gorman, Linda K</i> Prereqs: 080.305 and 080.306 or 020.312 or 020.306 or 200.141 and 020.306 or permission. Broadly defined, addiction is a chronic, relapsing brain disease. It is a compulsive, uncontrollable behavior to seek and use a substance, even in the face of negative social consequences or health consequences. But, addiction is also a condition in which an individual overindulges in just about anything that is reinforcing....from physical exercise, to video games, to food, and to sex. In this course, we will use current literature to try and understand what is currently known about the underlying neural mechanisms of this very real disorder.	3.00	15	TTh 10:30-11:45AM
AS.080.308	01			Neuroeconomics <i>Trageser, Jason</i>	3.00	100	WF 3:00-4:15PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereqs: 080.305 and 080.306 or 020.312 and 020.306 or 200.141 and 020.306 or permission. Every day decisions often require us to weigh the costs and benefits of engaging in a particular course of action in order to obtain some expected outcome. Unfortunately, we often lack the information necessary to obtain our desired goal with complete certainty. Economists have long been interested in understanding human decision-making under these circumstances. In parallel, neuroscientists have made great strides at describing the underlying neural basis of simple decision-making. However, despite much progress in both fields, our understanding of how the brain makes decisions is incomplete. In order to strengthen and further research in both fields, the interdisciplinary field of Neuroeconomics arose. This course will survey the field of Neuroeconomics focusing on theoretical concepts developed by economists and the role these theories are playing in guiding current experimental neuroscience.			
AS.080.318	01			Practicum in Language Disorders <i>Rapp, Brenda C</i> Please see additional instructions on http://krieger.jhu.edu/neuroscience/courses/index.html This course provides the opportunity to learn about adult aphasia; language disorders which are one of the most common consequences of stroke. You will receive training in Supportive Communication Techniques and work as a communication partner with an individual with aphasia for two hours per week. Three class meetings for orientation and reading assignments will be held on campus; training and practicum will be conducted at a local aphasia support center. Transportation required. Instructor's signature required to register.	1.00	2	TBA
AS.080.324	01			Neuroscience Journal Club <i>Staff</i> Open to Neuroscience and Behavioral Biology Sophomores, Juniors and Seniors. Classic Journal Club course where the students will read and discuss and review articles on differing topics depending on student interests. No Pre-requisites	1.00		TBA
AS.080.345	01	N		Great Discoveries in Neuroscience <i>Baraban, Jay M</i> Prereqs: 080.305 and 080.306 or 020.306 or 020.312 or Permission of Instructor This course examines the historical and intellectual context of selected, key advances in neuroscience, how they were made and the impact they had on an understanding of the nervous system. Particular attention will be paid to advances in cellular and molecular neuroscience. Among the topics covered will be the discovery of monoamine neurotransmitters and of endocannabinoids, the role of neurotrophins in neural development, and prion-based diseases of the brain.	3.00	30	TTh 3:00-4:15PM

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Neuroscience

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.080.355	01	N		Visual System <i>Hendry, Stewart H</i> Prereqs: 080.306 or 020.306 or Permission From outer segments of photoreceptors to the Fusiform Face Area of the cerebral cortex we have come to understand how the visual system works at each of many fundamental levels. This course examines the basis for perception of visible objects at each of these levels. We will use the secondary literature (scientific reviews) to accent the hard-won truths about visual system functional organization and to highlight ongoing controversies. Students will be lead through carefully chosen reviews in a series of lectures and written summaries prepared by faculty. Three exams and a final exam will test students not on their memorization of minutiae but on their understanding of fundamental principles.	3.00	30	MW 6:00-7:15PM
AS.080.360	01	N		Diseases & Disorders of the Nervous System <i>Mckhann, Guy M</i> Prereq: (580.421 and 580.422) or (020.305 and 020.306) or (080.305 and 080.306) or by permission. This class will use lectures, readings and presentations of filmed clinical examinations to outline the causes and treatments of neurological diseases and disorders. We will begin with diseases of the peripheral nervous system and proceed in steps to examining various forms of mental retardation and a variety of neuropsychiatric disorders.	3.00	100	TTh 4:30-5:45PM
AS.080.401	01			Research Practicum: KEEN (Kids Enjoying Exercise Now) <i>Gorman, Linda K</i> KEEN (Kids Enjoying Exercise Now) This is a one (1) credit S/U course, organized by the Undergraduate Neuroscience Program Committee. This course provides the opportunity to learn and interact with children who have neurological disabilities, including autism, cerebral palsy and Down syndrome in weekend exercise and recreational activities. You will receive a profile for the KEEN athlete that you will be paired with during a session. You will receive initial training and then volunteer three (3) hours per week for five (5) weeks on consecutive Sundays during the first or second half of the semester. One class meeting for orientation will be held on campus; one exit meeting will be held on campus; practicum will take place at KEEN centers in Maryland. Transportation will be provided.	1.00	10	S 11:15AM-4:15PM
AS.080.401	02			Research Practicum: KEEN (Kids Enjoying Exercise Now)	1.00	10	S 11:15AM-4:15PM
AS.080.402	01			Teaching Practicum: Making Neuroscience Fun (MNF) <i>Gorman, Linda K</i>	1.00	10	M 7:30-11:30AM

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Neuroscience

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This is a one (1) credit S/U course organized by the Undergraduate Neuroscience Program Committee. Making Neuroscience Fun (MNF) is a community outreach program which brings age-appropriate interactive presentations about the brain and nervous system to Baltimore City and County elementary school students. MNF is an effort aimed at fostering appreciation for science in general, emphasizing the importance of the brain and the nervous system in everyday life, and enhancing the science curriculum in Baltimore's City and County schools. You will receive initial training and then volunteer four (4) hours per week for four (4) weeks. One class meeting for orientation will be held on campus; one exit meeting will be held on campus; the practicum will take place at Baltimore City and County Schools. Students willing to drive are encouraged to register. Zip Cars will be provided.			
AS.080.402	02			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	T 7:30-11:30AM
AS.080.402	03			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	W 7:30-11:30AM
AS.080.402	04			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	Th 7:30-11:30AM
AS.080.402	05			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	F 7:30-11:30AM
AS.080.402	06			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	M 11:30AM-4:00PM
AS.080.402	07			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	T 11:30AM-4:00PM
AS.080.402	08			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	W 11:30AM-4:00PM
AS.080.402	09			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	Th 11:30AM-4:00PM
AS.080.402	10			Teaching Practicum: Making Neuroscience Fun (MNF)	1.00	10	F 11:30AM-4:00PM
AS.080.411	01	N		Advanced Sem:Neuroscience I <i>Baraban, Jay M</i> For students in the first semester of the BA/MS Program Perm. Req'd.	3.00	15	TBA
AS.080.412	01	N		Adv Sem:Neuroscience II <i>Baraban, Jay M</i> For students in the 2nd semester of the BA/MS Program Perm. Req'd.	3.00	15	TBA
AS.080.413	01	N		Adv Sem: Neuroscience III <i>Baraban, Jay M</i> For students in the 3rd semester of the BA/MS Program Perm. Req'd.	3.00	15	TBA
AS.200.141	01	NS		Foundations of Brain, Behavior and Cognition <i>Gorman, Linda K</i> 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.200.344	01	NS		Behavioral Endocrinology <i>Ball, Gregory Francis</i>	3.00	70	TTh 10:30-11:45AM

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Neuroscience

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq:(AS.200.141 OR AS.080.305) OR (AS.020.151 & AS.020.152) OR (AS.020.305 & AS.020.306) or Perm. Req'd. - An examination of the effects of hormones on behavior in non-human and human animals. Topics will include the effects of hormones on sexual differentiation, reproductive behavior, parental behavior, homeostasis and biological rhythms, regulation of body weight, learning and memory. Cross-listed with Behavioral Biology and Neuroscience			
AS.200.376	01	NS		Psychopharmacology <i>Gorman, Linda K</i> Prereq:(AS.200.141 OR AS.080.305) OR (AS.020.151 & AS.020.152) OR (AS.020.305 & AS.020.306)) or Perm. Req'd. - Psychopharmacology Designed to provide information about how drugs affect the brain and behavior. The course focuses on 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 1:30-2:45PM

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Philosophy

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.150.112	01	H		Philosophical Problems <i>Gross, Steven</i> An introduction to philosophy through several central problems. Topics might include the nature and limits of human knowledge, reason and religion, freedom of the will, and the objectivity of moral standards.	3.00	20	MW 11:00-11:50AM; W 1:30-2:20PM
AS.150.112	02	H		Philosophical Problems	3.00	20	MW 11:00-11:50AM; W 1:30-2:20PM
AS.150.112	03	H		Philosophical Problems	3.00	20	MW 11:00-11:50AM; W 1:30-2:20PM
AS.150.112	04	H		Philosophical Problems	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.150.112	05	H		Philosophical Problems	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.150.112	06	H		Philosophical Problems	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.150.191	01	H	W	Freshman Seminar: Ethical Topics in Plato <i>Staff</i> The class takes a problem-oriented approach to select dialogues in Plato. Central questions will include: the nature of motivation, and in particular, whether it is true that everyone desires the good; and the role of knowledge in living a good life, in particular, whether it is true that that virtue is knowledge. Among the dialogues we will read are Ion, Apology, Euthyphro, the Meno, and selections from the Republic, and Symposium.	3.00	15	TTh 12:00-1:15PM
AS.150.201	01	H		Intro to Greek Philosophy <i>Bett, Richard</i> A survey of the earlier phase of Greek philosophy. Socrates, Plato, and Aristotle will be discussed, as well as two groups of thinkers who preceded them, usually known as the pre-Socratics and the Sophists.	3.00	20	F 10:00-10:50AM; MW 10:00-10:50AM
AS.150.201	02	H		Intro to Greek Philosophy	3.00	20	MW 10:00-10:50AM; W 2:00-2:50PM
AS.150.201	03	H		Intro to Greek Philosophy	3.00	20	F 10:00-10:50AM; MW 10:00-10:50AM
AS.150.201	04	H		Intro to Greek Philosophy	3.00	20	MW 10:00-10:50AM; W 3:00-3:50PM
AS.150.202	01	H		Philosophy of Medicine <i>Miller, Bryan Temples</i> Prerequisite: Must have taken 1 philosophy course or permission required. This course explores philosophical issues that are of central importance to medicine. Topics to be covered include: history of medicine, relationship between medicine and science, distinction between health and disease. Prerequisite: At least one philosophy course or permission from the instructor.	3.00	25	TTh 1:30-2:45PM
AS.150.219	01	H	W	Intro to Bioethics <i>Bok, Hilary</i> Introduction to a wide range of moral issues arising in the biomedical fields, e.g. physician-assisted suicide, human cloning, abortion, surrogacy, and human subjects research. Cross listed with Public Health Studies.	3.00	20	F 12:00-12:50PM; MW 12:00-12:50PM
AS.150.219	02	H	W	Intro to Bioethics	3.00	20	F 12:00-12:50PM; MW 12:00-12:50PM
AS.150.219	03	H	W	Intro to Bioethics	3.00	20	W 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	04	H	W	Intro to Bioethics	3.00	20	W 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	05	H	W	Intro to Bioethics	3.00	20	F 12:00-12:50PM; MW 12:00-12:50PM
AS.150.219	06	H	W	Intro to Bioethics	3.00	20	F 1:30-2:20PM; MW 12:00-12:50PM

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Philosophy

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.150.219	07	H	W	Intro to Bioethics	3.00	20	W 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	08	H	W	Intro to Bioethics	3.00	20	W 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	09	H	W	Intro to Bioethics	3.00	20	F 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	10	H	W	Intro to Bioethics	3.00	20	F 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	11	H	W	Intro to Bioethics	3.00	20	W 4:00-4:50PM; MW 12:00-12:50PM
AS.150.219	12	H	W	Intro to Bioethics	3.00	20	W 5:00-5:50PM; MW 12:00-12:50PM
AS.150.219	13	H	W	Intro to Bioethics	3.00	20	F 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	14	H	W	Intro to Bioethics	3.00	20	W 2:00-2:50PM; MW 12:00-12:50PM
AS.150.245	01	H		Introduction to Philosophy of Mind <i>Williams, Meredith</i> This is an introduction to the central problems of philosophy of mind: the mind-body problem and the problem of self-knowledge. Of particular interest in contemporary work is the relation of mind and brain and whether, or how, we acquire self-knowledge.	3.00	15	W 10:00-10:50AM; MW 9:00-9:50AM
AS.150.245	02	H		Introduction to Philosophy of Mind	3.00	15	MW 9:00-9:50AM; W 10:00-10:50AM
AS.150.245	03	H		Introduction to Philosophy of Mind	3.00	15	F 9:00-9:50AM; MW 9:00-9:50AM
AS.150.245	04	H		Introduction to Philosophy of Mind	3.00	15	F 9:00-9:50AM; MW 9:00-9:50AM
AS.150.422	01	HQ		Axiomatic Set Theory <i>Rynasiewicz, Robert</i> Axiomatic development of set theory, including the theory of transfinite ordinals and cardinals. Relative consistency proofs. Independence of the axiom of choice, and of the continuum hypothesis. Implications for the foundations of mathematics. Prerequisite: 150.421 or equivalent.	3.00	30	TTh 10:30-11:45AM
AS.150.433	01	HN		Philos/Space & Time <i>Rynasiewicz, Robert</i> Beginning with Poincaré, there has been an influential school of thought maintaining that there is no fact of the matter as to whether the geometry of space is Euclidean or, instead, some form of non-Euclidean geometry – rather, one can arbitrarily choose a metric geometry and then modify the physics in order to fit the empirical facts. This claim has been extended to affine geometry (inertial structure of spacetime) and distant simultaneity (in relative theory). We will critically examine this tradition, beginning with a careful examination of the relation of non-Euclidean to Euclidean geometry.	3.00	30	TTh 1:30-2:45PM
AS.150.442	01	H		The Philosophy of Ludwig Wittgenstein <i>Williams, Meredith</i> We will read Wittgenstein's two great works: Tractatus Logico-Philosophicus (1921) and Philosophical Investigations (1953).	3.00	20	M 1:30-3:50PM
AS.150.454	01	H		The Value of Humanity <i>Staff</i>	3.00	20	TTh 3:00-4:15PM

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				<p>This is an upper-level undergraduate course on the value of human beings. Are human beings distinctively valuable? What makes us valuable? And how should we respond to the value of human beings? The course is divided into three parts. The first part takes up metaphysical questions about the basis and explanation of human value. We consider various proposals, including Kant's, on the valuable feature or capacity of human beings. Are we valuable in virtue of having a good will, in virtue of being agents, in virtue of being valuers, or something further? And we consider various accounts of how the proposed basis makes us valuable: does it make us valuable in ourselves, or simpliciter? Or does it make us valuable-for something or someone? The second part of the course takes up normative questions about the appropriate mode of responding to human beings. We consider whether it makes sense to say that human beings are 'ends-in-themselves', and what it would mean to treat a person as an end-in-itself. We also consider various accounts of respect. A guiding question is whether human beings are the only appropriate objects of respect, or whether we can respect other beings, and even artifacts. The third section of the course turns to more applied philosophical questions. We ask about the relationship between humans and animals, and consider the claim that to accord human beings special value amounts to speciesism—prejudicial favoring of our own kind.</p>			
AS.150.488	01	H		<p>Introduction to Scientific Methods <i>Achinstein, Peter</i></p> <p>Are there universal methods that make scientific inquiry superior to any other? We will study methods proposed by Descartes, Newton, Mill, Popper, and others; and critiques of these methods by Kuhn and Feyerabend.</p>	3.00	25	TTh 10:30-11:45AM
AS.150.492	01	H		<p>Spinoza and Medieval Jewish Philosophy <i>Brandau, John Alexander</i></p> <p>This course is an in-depth study of Spinoza's Ethics. We will go through the main metaphysical and moral doctrines of the Ethics and discuss recent interpretative controversies. Special attention will be given to the influence of medieval Jewish philosophy, and the way it illuminates our understanding of Spinoza's philosophy.</p>	3.00	25	TTh 12:00-1:15PM
AS.211.235	01	H		<p>Panorama of German Thought I <i>Staff</i></p>	3.00	15	TTh 9:00-10:15AM

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				<p>Taught in English. German thought is a broad intellectual tradition that encompasses works in an astonishing number of fields including philosophy, aesthetics, sociology, epistemology, psychology, anthropology, history, religious studies, and cultural analysis. The most prominent representatives of this tradition are Luther, Kant, Humboldt, Hegel, Nietzsche, Marx, Warburg, Freud, Benjamin, Kracauer, Weber, Simmel, Cassirer, Auerbach, Adorno, Arendt, Heidegger, and Luhmann. Indeed the study of cultural, historical, and social phenomena as well as of literary and artistic forms would not have been possible without the German intellectual tradition which, beginning with the Enlightenment, emphasized the role of the subject in constituting objects of knowledge and experience. This two-semester survey course will highlight important topics of German Thought, e.g. the subject, consciousness and unconsciousness, Bildung and the idea of the university, the sublime and the uncanny, irony, hermeneutics and translation, the desire for knowledge, tragedy and repetition, civilization, symbolic forms and medial reproduction, memory, and authority in a historical scope. While the first semester (Fall) covers until 1850 (from Luther to Hegel/Kierkegaard), the second (Spring) focuses on Modern German Thought after 1850 (from Marx to Luhmann). Meets with AS.213.235</p>			
AS.300.319	01	H	W	<p>Skepticism and Theology <i>Dika, Tarek</i></p> <p>This course examines the relation between the history of philosophical theology and the foundations of modern skepticism by focusing on their mutual point of departure: the concept of the human being as an essentially "finite" being "limited" in its capacity to know others, the world, and God.</p>	3.00	17	T 3:00-6:00PM
AS.360.133	01	H	W	<p>Great Books at Hopkins <i>Patton, Elizabeth</i></p> <p>Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Machiavelli, Shakespeare, Flaubert, Douglass, and Woolf, as well as musical compositions by Bach and Ravel.</p>	3.00	15	TTh 10:30-11:45AM
AS.360.133	02	H	W	<p>Great Books at Hopkins <i>Ong, Yi-Ping</i></p>	3.00	15	TTh 10:30-11:45AM
AS.360.133	03	H	W	<p>Great Books at Hopkins <i>Coleman, James</i></p>	3.00	15	TTh 10:30-11:45AM
AS.360.133	04	H	W	<p>Great Books at Hopkins <i>Talle, Andrew</i></p>	3.00	15	TTh 10:30-11:45AM

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Physics & Astronomy

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.171.101	01	EN		Gen Physics:Phys Sci Maj I <i>Barnett, Bruce A</i> One-year course in general physics covering mechanics, heat, sound, electricity and magnetism, optics, and atomic physics.	4.00	24	F 8:00-8:50AM; TTh 9:00-10:15AM
AS.171.101	02	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 8:00-8:50AM; TTh 9:00-10:15AM
AS.171.101	03	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 9:00-9:50AM; TTh 9:00-10:15AM
AS.171.101	04	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 10:00-10:50AM; TTh 9:00-10:15AM
AS.171.101	05	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 11:00-11:50AM; TTh 9:00-10:15AM
AS.171.101	06	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 12:00-12:50PM; TTh 9:00-10:15AM
AS.171.101	07	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 8:00-8:50AM; TTh 9:00-10:15AM
AS.171.101	08	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 8:00-8:50AM; TTh 10:30-11:45AM
AS.171.101	09	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 8:00-8:50AM; TTh 10:30-11:45AM
AS.171.101	10	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 9:00-9:50AM; TTh 10:30-11:45AM
AS.171.101	11	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 9:00-9:50AM; TTh 10:30-11:45AM
AS.171.101	12	EN		Gen Physics:Phys Sci Maj I	4.00	24	F 9:00-9:50AM; TTh 10:30-11:45AM
AS.171.101	13	EN		Gen Physics:Phys Sci Maj I	4.00	24	TTh 10:30-11:45AM; F 10:00-10:50AM
AS.171.101	14	EN		Gen Physics:Phys Sci Maj I	4.00	24	TTh 10:30-11:45AM; F 11:00-11:50AM
AS.171.101	15	EN		Gen Physics:Phys Sci Maj I	4.00	24	TTh 10:30-11:45AM; F 11:00-11:50AM
AS.171.101	16	EN		Gen Physics:Phys Sci Maj I	4.00		TTh 10:30-11:45AM; F 12:00-12:50PM
AS.171.102	01	EN		General Physics II <i>Maksimovic, Petar</i> One-year course in general physics covering mechanics, heat, sound, electricity and magnetism, optics, and atomic physics.	4.00	24	MWF 11:00-11:50AM; Th 8:00-8:50AM
AS.171.102	02	EN		General Physics II	4.00	24	MWF 11:00-11:50AM; Th 8:00-8:50AM
AS.171.102	03	EN		General Physics II	4.00	24	MWF 11:00-11:50AM; Th 8:00-8:50AM
AS.171.102	04	EN		General Physics II	4.00	24	MWF 11:00-11:50AM; Th 8:00-8:50AM
AS.171.102	05	EN		General Physics II	4.00	24	MWF 11:00-11:50AM; Th 8:00-8:50AM
AS.171.102	06	EN		General Physics II	4.00	24	MWF 11:00-11:50AM; Th 8:00-8:50AM
AS.171.103	01	EN		General Physics I for Biological Science Majors <i>Kaplan, David</i> Standard calculus based physics tailored to students majoring in one of the biological sciences. Topics in modern physics and in fluid dynamics will be covered in this course.	4.00	24	MWF 9:00-9:50AM; T 8:00-8:50AM
AS.171.103	02	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 9:00-9:50AM
AS.171.103	03	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 9:00-9:50AM
AS.171.103	04	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 10:30-11:20AM
AS.171.103	05	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 10:30-11:20AM
AS.171.103	06	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 10:30-11:20AM
AS.171.103	07	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 12:00-12:50PM
AS.171.103	08	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 12:00-12:50PM
AS.171.103	09	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 12:00-12:50PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.171.103	10	EN		General Physics I for Biological Science Majors	4.00	24	MWF 9:00-9:50AM; T 4:30-5:20PM
AS.171.105	01	EN		Classical Mechanics I <i>Armitage, Norman</i> An in-depth introduction to classical mechanics intended for physics majors/minors and other students with a strong interest in physics. This course treats fewer topics than 171.101 and 171.103 but with greater mathematical sophistication. It is particularly recommended for students who intend to take 171.201-202 or 171.309-310. Corequisites: lab 173.115, Calculus 110.108.	4.00	15	MWF 11:00-11:50AM; Th 10:30-11:20AM
AS.171.105	02	EN		Classical Mechanics I	4.00	15	MWF 11:00-11:50AM; Th 10:30-11:20AM
AS.171.113	01	N		Subatomic World <i>Blumenfeld, Barry J</i> Introduction to concepts of physics of the subatomic world: Symmetries, relativity, quanta, neutrinos, particles, and fields. Emphasis on ideas of modern physics, not on the mathematics. Intended for nonscience majors	3.00	44	MWF 11:00-11:50AM
AS.171.201	01	EN		Special Relativity/Waves <i>Zakamska, Nadia</i> Course continues introductory physics sequence (begins with 171.105-106). Special theory of relativity, mathematics of waves, harmonic oscillation, forced and damped oscillators, electromagnetic waves, diffraction, interference. Meets with 171.207	4.00	20	MWF 11:00-11:50AM; Th 3:00-4:30PM
AS.171.201	02	EN		Special Relativity/Waves	4.00	20	MWF 11:00-11:50AM; Th 3:00-4:30PM
AS.171.207	01	N		Special Relativity <i>Gritsan, Andrei</i> Three-week introduction to special relativity for students who elect to take 171.209 in place of 171.201.	1.00	20	MWF 11:00-11:50AM; Th 1:30-2:20PM
AS.171.207	02	N		Special Relativity	1.00	10	MWF 11:00-11:50AM; Th 3:00-4:30PM
AS.171.301	01	N		Electromag Thry II <i>Chien, Chia Ling</i> Static electric and magnetic fields in free space and matter; boundary value problems; electromagnetic induction; Maxwell's equations; and an introduction to electrodynamics. Prerequisites: 171.101-102 or 171.105-106; Linear Algebra and Calculus 110.201-202. Corequisite: Differential Equations 110.302.	4.00	30	TTh 9:00-10:15AM; F 10:00-10:50AM
AS.171.303	01	N		Quantum Mechanics I <i>Kovesi-Domokos, Susan</i> Prereq: 171.202, 171.204, 110.113 Fundamental aspects of quantum mechanics. Uncertainty relations, Schrodinger equation in one and three dimensions, tunneling, harmonic oscillator, angular momentum, hydrogen atom, spin, Pauli principle, perturbation theory (time-independent and time-dependent), transition probabilities and selection rules, atomic structure, scattering theory.	4.00	30	MWF 9:00-9:50AM; T 1:30-2:20PM
AS.171.309	01	N		Wave Phenomena with Biophysical Application <i>Krolik, Julian H</i>	4.00	30	MWF 1:30-2:20PM; Th 1:30-2:20PM

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				Introduction to wave phenomena, primarily through study of biophysical probes that depend on the interaction of electromagnetic radiation with matter. Topics include Fourier Analysis; standing waves; sound and hearing; diffraction and crystallography; geometrical and physical optics – the physics of modern light microscopy; quantum mechanics – how living things absorb light; NMR and MRI. Occasional laboratory exercises are included.			
AS.171.312	01	N		Stat Physics/Thermodyn <i>Marriage, Tobias</i>	4.00	25	MF 1:30-2:45PM; W 1:30-2:20PM
				Undergraduate course that develops the laws and general theorems of thermodynamics from a statistical framework.			
AS.171.313	01	N		Intro To Stellar Physics <i>Wyse, Rosemary</i>	3.00	20	TTh 10:30-11:45AM
				Prereq: 110.108-109, 171.202 Survey of stellar astrophysics. Topics include stellar atmospheres, stellar interiors, nucleosynthesis, stellar evolution, supernovae, white dwarfs, neutron stars, pulsars, black holes, binary stars, accretion disks, protostars, and extrasolar planetary systems.			
AS.171.321	01	EN		Introduction to Space Science and Technology <i>Moos, Henry Warren</i>	3.00	42	TTh 12:00-1:15PM
				Topics include space astronomy, remote observing of the earth, space physics, planetary exploration, human space flight, space environment, orbits, propulsion, spacecraft design, attitude control and communication. Crosslisted by Departments of Earth and Planetary Sciences, Materials Science and Engineering and Mechanical Engineering. Prerequisites: Physics 171.101-102 or similar; Calculus 110.108-109. 3 credits.			
AS.171.405	01	N		Condensed Matter Phys <i>Markovic, Nina</i>	3.00	10	MW 3:00-4:15PM
				Prereq: 171.304, 110.201-202 Undergraduate course covering basic concepts of condensed matter physics: crystal structure, diffraction and reciprocal lattices, electronic and optical properties, band structure, phonons, superconductivity and magnetism.			
AS.171.412	01	N		Phase Transformations and Critical Phenomena <i>Tchernyshyov, Oleg V</i>	3.00		MF 10:30-11:45AM
				Prereq: 171.312 or 171.703 Course covers phase transitions and critical phenomena. Building on the ideas of spontaneous symmetry breaking and scale invariance at a critical point we develop Landau's theory of phase transitions and the apparatus of renormalization group using both analytic and numerical techniques for studying interacting systems			
AS.172.203	01	N		Contemporary Phys Sem <i>Barnett, Bruce A</i>	1.00	30	T 1:30-2:20PM

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				Prereq: 171.101-102, 171.103-104, or 171.105-106 This seminar exposes physics majors to a broad variety of contemporary experimental and theoretical issues in the field. Students read and discuss reviews from the current literature, and are expected to make an oral or written presentation.			
AS.173.111	01	N		General Physics Lab I <i>Swartz, Morris</i>	1.00	24	M 1:30-4:20PM
				Experiments are chosen from both physical and biological sciences and are designed to give students background in experimental techniques as well as to reinforce physical principles.			
AS.173.111	02	N		General Physics Lab I	1.00	24	M 1:30-4:20PM
AS.173.111	03	N		General Physics Lab I	1.00	24	M 1:30-4:20PM
AS.173.111	04	N		General Physics Lab I	1.00	24	T 1:30-4:20PM
AS.173.111	05	N		General Physics Lab I	1.00	24	T 1:30-4:20PM
AS.173.111	06	N		General Physics Lab I	1.00	24	T 1:30-4:20PM
AS.173.111	07	N		General Physics Lab I	1.00	24	W 1:30-4:20PM
AS.173.111	08	N		General Physics Lab I	1.00	24	W 1:30-4:20PM
AS.173.111	09	N		General Physics Lab I	1.00	24	W 1:30-4:20PM
AS.173.111	10	N		General Physics Lab I	1.00	24	Th 1:30-4:20PM
AS.173.111	11	N		General Physics Lab I	1.00	24	Th 1:30-4:20PM
AS.173.111	12	N		General Physics Lab I	1.00	24	Th 1:30-4:20PM
AS.173.111	13	N		General Physics Lab I	1.00	24	Th 9:00-11:50AM
AS.173.111	14	N		General Physics Lab I	1.00	24	M 6:00-8:50PM
AS.173.111	15	N		General Physics Lab I	1.00	24	M 6:00-8:50PM
AS.173.111	16	N		General Physics Lab I	1.00	24	T 6:00-8:50PM
AS.173.111	17	N		General Physics Lab I	1.00	24	T 6:00-8:50PM
AS.173.111	18	N		General Physics Lab I	1.00	24	W 6:00-8:50PM
AS.173.111	19	N		General Physics Lab I	1.00	24	W 6:00-8:50PM
AS.173.111	20	N		General Physics Lab I	1.00	24	W 6:00-8:50PM
AS.173.111	21	N		General Physics Lab I	1.00	24	Th 6:00-8:50PM
AS.173.111	22	N		General Physics Lab I	1.00	24	Th 6:00-8:50PM
AS.173.111	23	N		General Physics Lab I	1.00	24	T 6:00-8:50PM
AS.173.111	24	N		General Physics Lab I	1.00	24	Th 6:00-8:50PM
AS.173.112	01	N		General Physics Lab II <i>Swartz, Morris</i>	1.00	24	W 1:30-4:20PM
				Prereq: 173.111 Coreq: 171.102; 171.104; or 171.106 Experiments are chosen from both physical and biological sciences and are designed to give students background in experimental techniques as well as to reinforce physical principles.			
AS.173.112	02	N		General Physics Lab II	1.00	24	W 6:00-8:50PM
AS.173.112	03	N		General Physics Lab II	1.00	24	Th 1:30-4:20PM
AS.173.112	04	N		General Physics Lab II	1.00	24	T 6:00-8:50PM
AS.173.112	05	N		General Physics Lab II	1.00	24	T 1:30-4:20PM

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Physics & Astronomy

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.173.115	01	N		Classical Mechanics Lab <i>Swartz, Morris</i> Coreq: 171.105 Experiments chosen to complement the lecture course Classical Mechanics I, II 171.105-106 and introduce students to experimental techniques and statistical analysis.	1.00	30	M 6:00-8:50PM

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Political Science

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.010.147	01	H		South Asian Art, Culture and Politics: Empire, Colony, Nation <i>Brown, Rebecca Mary</i> This course explores the visual culture and politics of South Asia from early archaeological settlements to contemporary installation art. Themes will include: the role of the patron, the relation of text and image, architecture and ritual/political space, colonialism, nationalism, modernity, and postcoloniality. Cross-listed with Political Science	3.00	25	TTh 9:00-10:15AM
AS.100.404	01	HS	W	John Locke <i>Marshall, John W</i> Seminar style course in which John Locke's major works will be read intensively, together with some of his contemporaries' works, and select scholarly interpretations.	3.00	25	TTh 10:30-11:45AM
AS.190.101	01	S		Intro American Politics <i>Ginsberg, Benjamin</i> This course is an introduction to government and politics through the study of the government and politics of the United States. All governments combine coercion and legitimacy. In a stable and legitimate system of government, coercion is hardly noticed by most citizens. Government comes to be seen as a source of benefits. The purpose of this course is to look behind institutions, practices, and benefits to appreciate how, for what and by whom we are governed. (AP)	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.190.101	02	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.190.101	03	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 11:00-11:50AM
AS.190.101	04	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 1:30-2:20PM
AS.190.101	05	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 1:30-2:20PM
AS.190.101	06	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 1:30-2:20PM
AS.190.101	07	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; Th 9:00-9:50AM
AS.190.101	08	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; Th 9:00-9:50AM
AS.190.101	09	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; Th 9:00-9:50AM
AS.190.101	10	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; Th 9:00-9:50AM
AS.190.101	11	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 3:00-3:50PM
AS.190.101	12	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 3:00-3:50PM
AS.190.101	13	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; Th 3:00-3:50PM
AS.190.101	14	S		Intro American Politics	3.00	20	MW 11:00-11:50AM; F 3:00-3:50PM
AS.190.206	01	S	W	Global Environmental Politics <i>Staff</i> This course will combine empirical, theoretical, and moral perspectives to explain and understand global environmental problems such as climate change and worldwide biodiversity decline. In the first part of the course, we will examine the central social, economic, and political causes of ecological problems. In the second part, we will analyze proposed solutions to these problems at the local, national, and global levels.	3.00	30	TTh 9:00-10:15AM
AS.190.209	01	S		Contemp Int'l Politics <i>David, Steven R</i>	3.00	20	MW 1:30-2:20PM; F 1:30-2:20PM

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				An introduction to international politics. Emphasis will be on continuity and change in international politics and the causes of war and peace. The first half of the course will focus on events prior to the end of the Cold War, including the Peloponnesian War, the European balance of power, imperialism, the origins and consequences of WWI and WWII, and the Cold War. The second half will focus on international politics since 1990, including globalization, whether democracies produce peace, the impact of weapons of mass destruction, terrorism, and the prospects for peace in the 21st century. Theories of realism and liberalism will also be considered. (IR)			
AS.190.209	02	S		Contemp Int'l Politics	3.00	20	MW 1:30-2:20PM; F 1:30-2:20PM
AS.190.209	03	S		Contemp Int'l Politics	3.00	20	MW 1:30-2:20PM; F 1:30-2:20PM
AS.190.209	04	S		Contemp Int'l Politics	3.00	20	MW 1:30-2:20PM; F 3:00-3:50PM
AS.190.209	05	S		Contemp Int'l Politics	3.00	20	MW 1:30-2:20PM; F 3:00-3:50PM
AS.190.209	06	S		Contemp Int'l Politics	3.00	20	MW 1:30-2:20PM; F 3:00-3:50PM
AS.190.209	07	S		Contemp Int'l Politics	3.00	20	MW 1:30-2:20PM; Th 9:00-9:50AM
AS.190.209	08	S		Contemp Int'l Politics	3.00	20	MW 1:30-2:20PM; Th 9:00-9:50AM
AS.190.209	09	S		Contemp Int'l Politics	3.00	20	MW 1:30-2:20PM; Th 9:00-9:50AM
AS.190.209	10	S		Contemp Int'l Politics	3.00	20	MW 1:30-2:20PM; W 3:00-3:50PM
AS.190.209	11	S		Contemp Int'l Politics	3.00	20	MW 1:30-2:20PM; W 3:00-3:50PM
AS.190.209	12	S		Contemp Int'l Politics	3.00	20	MW 1:30-2:20PM; W 3:00-3:50PM
AS.190.282	01	S	W	Force, Freedom, Law (Classics of Political Thoughts III) <i>Culbert, Jennifer</i> Prereqs: 190.280 or 190.281 Beginning with Plato, and using Nietzsche's history of metaphysics as a guide, this course serves as an introduction to Euro-American political thought by analyzing the philosophical foundations of political authority. In addition to works by Plato and Nietzsche, readings will include works by Kant, Mill, Hart, and Foucault.	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM
AS.190.282	02	S	W	Force, Freedom, Law (Classics of Political Thoughts III)	3.00	20	MW 10:00-10:50AM; F 10:00-10:50AM
AS.190.282	03	S	W	Force, Freedom, Law (Classics of Political Thoughts III)	3.00	20	MW 10:00-10:50AM; F 9:00-9:50AM
AS.190.282	04	S	W	Force, Freedom, Law (Classics of Political Thoughts III)	3.00	20	MW 10:00-10:50AM; F 9:00-9:50AM
AS.190.304	01	S	W	Constructivism: How Ideas Shape International Relations <i>Staff</i> In this course we will explore the power of culture, symbols, and values in global politics. We will achieve a deep understanding of constructivist theories by way of their important contributions to the study of historical change, war and peace, ethnic and religious conflict, international economics, human rights, environmental politics, and global justice movements.	3.00	30	TTh 1:30-2:45PM
AS.190.306	01	S	W	The Political Economy of European Union <i>Jabko, Nicolas</i>	3.00	40	W 1:30-3:50PM

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				The existence of the European Union has come to profoundly shape the governance of Europe's national economies. In the context of a rapidly changing global economy, the EU has helped its member states to modernize their economies. At the same time, the EU has become the locus of important problems and tensions, as the eurozone crisis vividly illustrates. Going back to the foundation of the European Union, this course will survey developments in the political economy of the EU and put them in theoretical perspective.			
AS.190.332	01	S	W	Research Seminar: Great Constitutional Issues <i>Grossman, Joel B</i> An Exploration of Free Speech issues through readings, discussion and student research.	3.00	15	W 3:00-5:30PM
AS.190.337	01	S		The Constitution and the Criminal Justice System <i>Grossman, Joel B</i> Explores how the Constitution has shaped the theory and practice of the American criminal justice system, including arrests, searches and seizure of evidence, interrogation, prosecution, adjudication and plea bargaining, and sentencing. What is a "fair trial?" What is "due process?" What is "equality before the law?" "What are the limits of capital punishment?"	3.00	75	TTh 4:30-5:45PM
AS.190.341	01	S	W	Korean Politics <i>Chung, Erin</i> This course introduces students to the historical and institutional foundations of modern South Korean politics. Topics include nationalism, political economic development, civil society, globalization, and ROK-DPRK relations. (CP)	3.00	25	W 1:30-3:50PM
AS.190.343	01	S		Nationalism <i>Hanchard, Michael</i> Despite the clamor over globalization and regionalization in the contemporary world, nationalism remains a central preoccupation for both political actors and students of politics. Though motivated by questions resonant within the discipline of political science (and the field of comparative politics in particular), this course is designed to familiarize students with key texts and debates in the literatures on nationalism in political science, sociology, history and anthropology. The objective of this course is to provide students with a comprehensive overview of major themes, scholarly approaches and forms of nationalist mobilization in national and cross-spatial perspective. Some of the questions to be addressed in this course are a) what are the roots and routes of nationalism?; b) who are nationalist political actors, and where do they come from?; c) what is nationalism's relation to race, racism and ethnicity d) what is the relationship between various forms of nationalism and contemporary considerations of regionalism and globalization?	3.00	20	TTh 10:30-11:20AM; F 10:00-10:50AM
AS.190.343	03	S		Nationalism	3.00	20	TTh 10:30-11:20AM; F 11:00AM-11:50PM

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AS.190.343	04	S		Nationalism	3.00	20	TTh 10:30-11:20AM; F 11:00-11:50AM
AS.190.344	01	S	W	Seminar In Anti-Semitism <i>Ginsberg, Benjamin</i> Jews exercise a good deal of power in contemporary America.. They are prominent in a number of key industries, play important roles in the political process, and hold many major national offices. For example, though Jews constitute barely two percent of America's citizens, about one-third of the nation's wealthiest 400 individuals are Jewish and more than ten percent of the seats in the U.S. Congress are held by Jews. One recent book declared that, "From the Vatican to the Kremlin, from the White House to Capitol Hill, the world's movers and shakers view American Jewry as a force to be reckoned with." Of course, Jews have risen to power in many times and places ranging from the medieval Muslim world and early modern Spain through Germany and the Soviet Union in the 20th century. In nearly every prior instance, though, Jewish power proved to be evanescent. No sooner had the Jews become "a force to be reckoned with" than they found themselves banished to the political margins, forced into exile or worse. Though it may rise to a great height, the power of the Jews seems ultimately to rest on a rather insecure foundation. Cross-listed with Jewish Studies	3.00	15	W 1:30-3:50PM
AS.190.387	01	S	W	Parties and Elections in America <i>Staff</i> Considers how parties and elections structure political conflict, and facilitate (or not) democratic control of government. Topics include campaigns, voting behavior, election administration, money in politics, presidential nomination, and party coalitions.	3.00	40	TTh 1:30-2:45PM
AS.190.398	01	S	W	Politics of Good & Evil <i>Connolly, William E</i> Prereq: One class in Political Theory or permission of instructor. A seminar in elemental theory exploring contending conceptions of good and evil as they appear in Sophocles, The Book of Job, Genesis, Augustine, Friedrich Nietzsche and William James. Elemental theory probes the dicey relations between evil and creeds already installed in us. It also presupposes previous work in theory. This is a discussion seminar, in which students make class presentations on assigned texts and write two 12 page papers.	3.00	15	M 1:30-3:50PM
AS.190.405	01	S	W	Food Politics <i>Sheingate, Adam</i> Juniors, Seniors, and Graduate Students Only This course examines the politics of food at the local, national, and global level. Topics include the politics of agricultural subsidies, struggles over genetically modified foods, government efforts at improving food safety, and issues surrounding obesity and nutrition policy. (AP & CP) Cross-listed with Public Health Studies	3.00	15	T 1:30-3:50PM

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AS.190.409	01	S	W	Comp/Politics/Social Mov <i>Keck, Margaret E</i>	3.00	20	M 1:30-3:50PM
AS.190.414	01	S		America and the World <i>Deudney, Daniel Horace</i> Senior or Grad Students. Intensive examination of the United States from the founding to the present in comparative and international perspective.	3.00	25	M 4:30-6:50PM
AS.190.417	01	S	W	American Welfare State <i>Staff</i> This seminar analyzes the distinctive US welfare state in historical and comparative perspective. Special attention to policy development over time in health care; pensions; taxes; and work and poverty.	3.00	20	M 3:00-5:50PM
AS.190.422	01	QS		Republicanism <i>Deudney, Daniel Horace</i> Readings in classical and contemporary texts (Polybius, Machiavelli, Montesquieu, Rousseau, Kant, the Federalist, Calhoun, World Federalism, and nuclear arms control). Focus on security, freedom, and geopolitics, both domestic and international. (PT, IR)	3.00	20	MW 1:30-2:20PM; F 1:30-2:20PM
AS.190.422	02	QS		Republicanism	3.00	20	MW 1:30-2:20PM; F 1:30-2:20PM
AS.190.422	03	QS		Republicanism	3.00	20	MW 1:30-2:20PM; F 1:30-2:20PM
AS.190.422	04	QS		Republicanism	3.00	20	MW 1:30-2:20PM; F 9:00-9:50AM
AS.190.422	05	QS		Republicanism	3.00	20	MW 1:30-2:20PM; F 9:00-9:50AM
AS.190.422	06	QS		Republicanism	3.00	20	MW 1:30-2:20PM; F 9:00-9:50AM
AS.190.450	01	S		Power <i>Marlin-Bennett, Renee</i> 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.	3.00	15	T 1:30-3:50PM
AS.190.472	01	S		The Power of Speech <i>Culbert, Jennifer</i> Drawing from literary theory, political philosophy, and jurisprudence, this course will explore the unique relationship between speech (broadly conceived) and politics. In addition to reviewing classic arguments about freedom of speech and the significance of this freedom in and for democratic government, the course will study debates about the need to limit this freedom, taking into consideration not only how we do things with words but how words affect us. In addition to court cases and critical legal studies, we will read texts by, among others, Aristotle, Arendt, Mill, Austin, Fish, Butler, and Fanon. Pre-requisite 190.200, 190.201 or 190.202 or permission of the professor.	3.00	20	Th 1:30-3:50PM
AS.191.202	01	S	W	War and Justice <i>Wilcox, Lauren</i>	3.00	25	MW 3:00-4:15PM

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				<p>This course introduces dominant and critical perspectives on questions relating to the morality of war and the use of force. We'll discuss a variety of perspectives about what constitutes justice in war realism, to the just war tradition, and international law to feminist and post-colonial critiques of prevailing standards of conduct in war through a consideration of historical and contemporary controversies such as the dropping of the atomic bomb, what constitutes 'terrorism', what is the meaning of 'self-defense' in war, torture, the use of sanctions, civilian victimization in war, humanitarian intervention and the use of unmanned aerial vehicles ('drones'). We'll investigate both the content and historical formation of the norms of conduct in war and question whether these prevailing norms serve the interests of justice. Prior course work in International Relations is required. Writing Intensive course (around 20 pages of writing)</p>			
AS.191.208	01	S	W	<p>American Politics and its Discontents <i>Anfinson, Kellan K</i></p> <p>This class explores the gap between the promise and shortcomings of American democracy. Topics include the Puritans, political participation, slavery, wealth and political power, equality, and the national security state.</p>	3.00	20	TTh 9:00-10:15AM
AS.191.310	01	S	W	<p>American Political Development <i>Adler, William</i></p> <p>American political development (APD) is the study of how political institutions and the body politic in the U.S. have changed over time. In this advanced seminar, we will explore this subfield of political science. The course is concerned with attempting to identify historical patterns within American politics as well as the disjunctions that have reshaped the nation's trajectory. Students will engage with the APD literature and in the process learn how scholars identify the evidence they use to support their analytical claims. The course is divided into four sections. First, we will survey the subfield's rise and discuss how (or if) APD differs from other ways of studying American politics. Next, we turn to a discussion of political culture and the Constitution as a stabilizing influence within a changing political environment. From there we shift to the study of discontinuities through a careful examination of state-building as well as the impact of anti-statism. Finally, the course concludes with an analysis of associational life within the American state, focusing particularly on issues of race and gender.</p>	3.00	20	Th 3:00-5:50PM
AS.191.311	01	S		<p>The Public Life of Personal Narrative <i>Gies, Nathan Alan</i></p>	3.00	15	MWF 3:00-3:50PM

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				Michel Foucault once declared that "Western man has become a confessing animal." In the era of Facebook and YouTube, we seem to be moving closer and closer to this definition, as we divulge increasingly private details about ourselves to increasingly broad publics. The hopes and anxieties that have attached themselves to these new media and technology, however, are not entirely novel. This course departs from a set of questions about contemporary uses of self-exposure, then turns to an examination of theoretical texts and autobiographical materials spanning several centuries, slowly winding our way back to the present. The aim of our journey will be to arrive at a fresh understanding of the political functions of personal narratives in our own time.			
AS.191.335	01	S		Arab-Israeli Conflict (IR) <i>Freedman, Robert</i>	3.00	40	T 4:00-6:30PM
				The course will focus on the origin and development of the Arab-Israeli conflict from its beginnings when Palestine was controlled by the Ottoman Empire, through World War I, The British Mandate over Palestine, and the first Arab-Israeli war (1947-1949). It will then examine the period of the Arab-Israeli wars of 1956, 1967, 1973, and 1982, the Palestinian Intifadas (1987-1993 and 2000-2005); and the development of the Arab-Israeli peace process from its beginnings with the Egyptian-Israeli treaty of 1979, the Oslo I and Oslo II agreements of 1993 and 1995, Israel's peace treaty with Jordan of 1994, the Road Map of 2003; and the periodic peace talks between Israel and Syria. The conflict will be analyzed against the background of great power intervention in the Middle East, the rise of political Islam and the dynamics of Intra-Arab politics, and will consider the impact of the Arab Spring.			
AS.191.340	01	S	W	Education Politics in Urban America <i>Hayes, Floyd, III.</i>	3.00		Th 3:00-5:20PM
				This seminar analyzes trends, developments, and future challenges related to the politics of urban public schooling with a concentration on community political dynamics and the struggle for equal educational opportunity and quality education. The course emphasizes the impact of socioeconomic class inequality, racial/ethnic conflict, and gender politics on the changing character of public school reform since the 1954 Supreme Court decision of Brown v. Board of Education. Cross-listed with Africana Studies			
AS.191.345	01	S		Russian Foreign Policy (IR) <i>Freedman, Robert</i>	3.00	35	W 4:00-6:30PM

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				This course will explore the evolution of Russian Foreign Policy from Czarist times to the present. The main theme will be the question of continuity and change, as the course will seek to determine to what degree current Russian Foreign Policy is rooted in the Czarist(1613-1917) and Soviet(1917-1991) periods, and to what degree it has operated since 1991 on a new basis. The main emphasis of the course will be on Russia's relations with the United States and Europe, China, the Middle East and the countries of the former Soviet Union--especially Ukraine, the Baltic States, Transcaucasia and Central Asia. (IR) The course will conclude with an analysis of the Russian reaction to the Arab Spring and its impact both on Russian domestic politics and on Russian foreign policy.			
AS.191.353	01	S	W	Africa and American Foreign Policy <i>Kamola, Isaac</i>	3.00	20	W 3:00-5:30PM
				This course examines the political, economic, and social relationships between the United States and various African countries. We start by critically examining various ways American foreign policy thinkers conceptualize Africa, before turning our attention to issues concerning conflict, intervention and peacekeeping, economic aid and development, and the Arab Spring. In particular, we will look at: the Rwandan genocide and the Congolese War, the Darfur conflict, Somali piracy, the Millennium Development goals, debates around foreign aid, NGO-based development, China's presence in Africa, and the U.S.'s recent support of Libyan rebels.			
AS.191.354	01	S		History of US Latin American Relations <i>Smith, Wayne</i>	3.00	35	W 1:30-3:50PM
				History of U.S. relations with Latin America, from founding of the U.S. until today.			
AS.191.370	01	S		Theories of International Political Economy <i>Kamola, Isaac</i>	3.00	25	W 3:00-5:50PM
				This course is concerned with three general questions: What causes economic inequality among nations? Does free trade lead to economic growth? What causes financial crisis? How one answers these questions, however, depends upon one's fundamental conceptualization of what constitutes "the economy." To answer these questions, therefore, we will read seminal texts in the study of political economy, including Adam Smith's Wealth of Nations, Karl Marx's Capital, Vol. 1. and various thinkers who have built upon this theoretical work (for example, Hayek, Friedman, Keynes, Polanyi, Harvey etc).			
AS.191.375	01	S		Thinking Organizationally <i>Teles, Steven Michael</i>	1.50		T 5:30-8:00PM
				Aitchison Students Only			
AS.191.376	01	S	W	Public Policy Writing <i>Wagner Hill, Kathryn</i>	1.50		W 6:00-7:30PM
				Aitchison Students Only			

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.191.379	01	S		Thinking Strategically <i>Mueller, Karl</i> Aitchison Students Only	1.50		Th 5:30-8:00PM
AS.191.381	01	S		Thinking Politically <i>Teles, Steven Michael</i> Aitchison Students Only	1.50		T 5:30-8:00PM
AS.191.382	01	S		Thinking Economically <i>Dockins, Paul</i> Aitchison Students Only	1.50		F 9:30AM-12:00PM
AS.191.384	01	S		Thinking Legally <i>Greve, Michael S</i> Aitchison Students Only	1.50		F 9:30AM-12:00PM
AS.191.390	01	S		Terrorism and Counterterrorism <i>Abrahms, Max</i> The purpose of this course is to critically examine the most important empirical and theoretical debates on terrorism, with a view toward formulating maximally effective counterterrorism responses. This is the only book to purchase: http://www.cqpress.com/product/Debating-Terrorism-and-Counterterrorism.html . The other readings can be accessed online.	3.00	25	F 1:30-3:50PM
AS.191.402	01	QS		Numbers, Pictures, Politics <i>Rom, Mark</i> Aitchison students only	3.00	15	F 1:30-4:00PM
AS.195.477	01	S	W	Intro To Urban Policy <i>Newman, Sandra J</i> Perm. Req'd. 195.477 & 195.478 must be taken together by undergraduates Cross-listed with Political Science, Sociology, Public Health Studies, and Geography and Environmental Engineering	3.00	15	T 5:00-6:50PM
AS.195.478	01		W	Urban Policy Internship <i>Newman, Sandra J</i> 195.478 & 195.477 must be taken together by undergraduates Cross-listed with Political Science, Sociology, Public Health Studies, and Geography and Environmental Engineering	3.00	15	None
AS.362.340	01	S	W	Power and Racism <i>Hayes, Floyd, III.</i> This course investigates the impact of white supremacy and anti-black racism, as a global system of power, on the political development of the United States of America.	3.00	20	T 1:30-3:50PM

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Program in Latin American Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.010.320	01	H	W	Art of Colonial Peru <i>Deleonardis, Lisa</i> In this course we consider the painting, sculpture, and architecture of viceregal Peru (ca. 1520-1825) within the dynamic historical context of colonial society. Documentary sources inform our study by providing both institutional and personal accounts of events, histories, philosophies, and rebellion. We examine the role of religious orders, artisan guilds and <i>cofradía</i> , and consider the social and political implications of art patronage.	3.00	25	TTh 3:00-4:15PM
AS.010.365	01	H	W	Art of the Ancient Andes <i>Deleonardis, Lisa</i> Course surveys the visual arts of Andean South America and includes discussion of royal Inka tunics, Nasca death imagery and the gold sculptural traditions of Colombia.	3.00	25	TTh 10:30-11:45AM
AS.070.285	01	HS		Understanding Aid <i>Cervone, Emma</i> This course analyzes theories of development that have been guiding international cooperation in developing countries since the late 1940s. Case studies focus on Latin America, the Caribbean, India, and Africa. Cross-listed with PLAS	3.00	35	TTh 9:00-10:15AM
AS.100.441	01	HS		Society, Politics, and Economics in Latin America <i>Knight, Franklin</i> This course traces the complex relationship between politics, economics, and social changes in Latin America and the Caribbean since World War II.	3.00	20	TTh 10:30-11:45AM
AS.210.177	01			Portuguese Elements <i>Bensabat Ott, Mary M</i> This one-year course introduces students to the basic skills in reading, writing, and speaking the language. Emphasis is placed on oral communication with, however, extensive training in written and listening skills. Class participation is encouraged from the very beginning. All classes are conducted in Portuguese. Extensive language lab is required. Students must complete both semesters with passing grades to receive credit. May not be taken on a satisfactory/unsatisfactory basis. No previous knowledge of Portuguese is required.	4.00	25	MWF 11:00-11:50AM
AS.210.277	01	H		Intermediate/ Advanced Portuguese <i>Anitagrace, Joyce</i> More advanced training in the skills of the language with emphasis on vocabulary building, ease and fluency in the language through the use of a multifaceted approach. Materials used immerse students in the cultures of Brazil, Portugal, and Portuguese-speaking Africa, and reflect the mix of cultures at work in the contemporary Lusophone world. All classes are conducted in Portuguese. Extensive language lab is required. May not be taken on a satisfactory/unsatisfactory basis. Pre-requisites: AS.210.177/178, or placement test.	3.00	25	MWF 10:00-10:50AM

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Program in Latin American Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.210.391	01	H	W	Portuguese Lang & Lit <i>Bensabat Ott, Mary M</i> This third-year course focuses on reading, writing, and oral expression. Under the supervision of the instructor, students will read one or two complete works by major Brazilian, Portuguese, and/or Afro-Portuguese writers each semester, followed by intense writing and oral discussion on the topics covered. Grammar will be reviewed as necessary. Lab work is required. All classes are conducted in Portuguese. Prereq: 210.277.278 or placement exam . Permission Req'd.	3.00	25	MWF 9:00-9:50AM
AS.211.394	01	H	W	Brazilian Cult & Civ <i>Bensabat Ott, Mary M</i> This course surveys the culture and civilization of Brazil emphasizing influences of African, Asian, European, and indigenous cultures over four centuries. Using a multimedia approach, it examines art, music, popular culture, history, theater, literature, and cinema. Course taught in English, but ONE extra credit will be given to students who wish to do the course work in Portuguese. The sections will be taught simultaneously. Section 01 – work done in English Section 02 – work done in Portuguese; Permission Required for sec. 02 only	3.00		M 2:00-4:30PM
AS.211.394	02	H	W	Brazilian Cult & Civ	3.50		M 2:00-4:30PM
AS.215.341	01	H	W	Perspectives on the Study of Latin America <i>Castro-Klaren, Sara</i> An interdisciplinary approach to the study of Latin America since Independence. The course will reply on an historical approach to the the study of literature, art and the formation of cultural epochs and periods.	3.00	30	W 1:30-3:50PM
AS.215.458	01	H		Cuba and its Culture Since the Revolution <i>Gonzalez, Eduardo</i> We will study the visual and textual arts, cinema, political culture, and blogosphere; reaching back to the first phases in the building of the revolutionary state apparatus and its sovereign mandate. Taught in Spanish.	3.00	15	M 1:30-4:00PM
AS.230.343	01	S		Political Sociology of Latin America <i>von der Heydt-Coca, Magda Zonia</i> This course provides an overview of Latin America through its historical, economic, social, and political dimensions. Emphasis will be given to the analysis of social structures: class, race and ethnicity, and the contemporary social movements. The course begins with an overview of the pre-Columbian civilizations and colonial legacies that gave rise to the multiethnic societies and the ethnic conflicts which characterize contemporary Latin America.	3.00	30	TTh 10:30-11:45AM
AS.361.130	01	HS	W	Introduction to Latin American Studies <i>Ramsdell, Lea A</i>	3.00	30	TTh 10:30AM-11:15PM

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Program in Latin American Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Within the background of a chronological frame that starts with early Amer-Indian civilizations and moves on to issues in contemporary culture and politics, the course introduces students to an interdisciplinary understanding of Latin American History and Culture. The course draws from historical geography, anthropology, history, politics and art, film and literature. Cross-list with GRLL, Anthropology, Humanities Center, and History.			
AS.361.343	01	HS		Documentary and Historical Film in Latin America, 1959-2010 <i>Strayer, Michael Mclachlan</i>	3.00	25	TTh 4:30-5:45PM
				This course will examine and discuss various documentary and historical films from and about Latin America in relation to film theory, historiography, and cultural criticism.			
AS.362.105	01	HS	W	Reading Seminar: Black Society in the Americas <i>Knight, Franklin</i>	3.00	10	W 4:00-6:30PM
				Jointly offered with Moira Hinderer, based on themes developed from the archives of the Afro-American Newspaper and selected readings of African American Societies from across the hemisphere of the Americas.			

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Program in Museums and Society

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.040.137	01	H	W	Archaeology at the Crossroads: The Ancient Eastern Mediterranean through Objects in the JHU Archaeological Museum <i>Anderson, Emily S.K.</i> Limited to Freshmen. This seminar investigates the Eastern Mediterranean as a space of intense cultural interaction in the Late Bronze Age, exploring how people, ideas, and things not only came into contact but deeply influenced one another through maritime trade, art, politics, etc. In addition to class discussion, we will work hands-on with artifacts from the JHU Archaeological Museum, focusing on material from Cyprus. Cross-list with Museums and Society and Near Eastern Studies.	3.00	10	TTh 10:30-11:45AM
AS.070.103	01	HS	W	Africa & The Museum <i>Guyer, Jane</i> An introduction to Africa, artistic creativity, collection and exhibition: as African history, as anthropology of art and objects, and as public controversy in our national institutions. Works with the Baltimore Museum of Art. Cross-listed with Africana Studies and Programs in Museums and Society.	3.00	20	T 1:30-3:50PM
AS.130.251	01			Made for the Gods: Votive Egyptian Objects in the Archaeological Museum <i>Bryan, Betsy Morrell</i> This course investigates Egyptian votive objects made as gifts to the Gods. Students will learn about Egyptian religious practices and study groups of objects in the Archaeological Museum to learn to identify how they were produced, when, and for what functions. Physical analyses of the objects will be part of the class and Facilitated by museum staff.	3.00	12	MW 12:00-1:15PM
AS.389.201	01	HS		Introduction to the Museum: Past and Present <i>Rodini, Elizabeth</i> This course surveys museums, from their origins to their most contemporary forms, in the context of broader historical, intellectual, and cultural trends. Anthropology, art, history, and science museums are considered. Cross-listed with Anthropology, History, History of Art.	3.00	25	TTh 1:30-2:45PM
AS.389.357	01	H		Heaven on Earth: Art, Culture and Wonder in the Vatican Museum and Library <i>Havens, Earle</i> This interdisciplinary course will explore the institutional, cultural, artistic and architectural history of St. Peter's and the Vatican Museum and Library from Antiquity through the Renaissance, up to the present day. Class meets in the Dick Macksey Seminar Room of the Brody Learning Commons. Cross-listed with History	3.00	20	T 3:00-5:20PM
AS.389.361	01	H		Introduction to Material Culture: Trades and Training in Early Baltimore <i>Arthur, Catherine Rogers</i>	3.00	12	W 1:30-3:50PM

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Program in Museums and Society

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.389.369	01	H		<p>Students explore early American life relating to the region and Homewood House. Primary research, object study culminate in exhibit focused on trades and crafts, training and work practices. M&S practicum course. Meets at Homewood Museum. Cross-listed with History.</p> <p>Encountering the Art of East Asia: Museum Display, Theory and Practice <i>Mintz, Robert</i></p>	3.00	12	Th 2:00-5:00PM
AS.389.371	01	H		<p>Students reconsider the exhibition and interpretation of East Asian Art at the Walters Art Museum, developing a pilot installation to suggest a new permanent display. M&S Practicum Course. Class meets at the Walters Art Museum (extended time to allow for travel). Cross-listed with East Asian Studies</p> <p>The Artist in the Museum: Making Books <i>Berger, Phyllis A</i></p> <p>Hopkins curatorial staff and photography instructor introduce the concept of books as art. Students create artist's books inspired by campus collections for inclusion in an Evergreen exhibition. M&S practicum course. Cross-listed with Homewood Art Workshops.</p>	3.00	12	M 2:00-5:00PM
AS.389.385	01	HS		<p>Global Perspectives on the Museum <i>Rodini, Elizabeth</i></p> <p>Course examines practices of collecting, display and preservation beyond the western museum tradition, focusing on how these practices reflect and construct political, historical, ethnic and nationalist narratives. Counts towards the international studies major. Cross-listed with Anthropology</p>	3.00	20	M 1:30-3:50PM

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Psychological & Brain Sciences

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.050.204	01	NS		Visual Cognition <i>Park, Soojin</i> Vision is central to our daily interactions with the world: we can effortlessly navigate through a city, comprehend fast movie trailers, and find a friend in a crowd. While we take the visual experience for granted, visual perception involves a series of complicated cognitive processes beyond just opening our eyes. The goal of this course is to provide an introduction to visual cognition, including existing theoretical frameworks and recent research findings. We will explore questions such as: How do we see the visual world? Do we see and remember correctly what's in the physical world? Do infants see the world the same way as adults do? How is the visual system structured and what are the neural mechanisms underlying visual perception? No prerequisites. Cross-listed with Psychological and Brain Sciences	3.00	50	TTh 9:00-10:15AM
AS.200.101	01	NS		Intro to Psychology <i>Drigotas, Stephen M</i> This course surveys all the major areas of scientific psychology, including the physiological bases of behavior; sensation and perception; learning, memory and cognition; developmental, social, and personality psychology; and psychopathology.	3.00	400	MWF 11:00-11:50AM
AS.200.132	01	S		Intro Developmentl Psych <i>Feigenson, Lisa</i> An introductory survey of human development from the prenatal period through adolescence. The developing child is examined in terms of cognitive, social, emotional, motor, and language development.	3.00	100	MWF 10:00-10:50AM
AS.200.141	01	NS		Foundations of Brain, Behavior and Cognition <i>Gorman, Linda K</i> 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		Evolutionary Psychology <i>Egeth, Howard E</i> Freshmen only 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.	1.00	13	T 2:00-2:50PM
AS.200.204	01	S		Human Sexuality <i>Kraft, Chris S</i>	3.00	25	T 12:00-2:20PM

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Psychological & Brain Sciences

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Juniors and Seniors only within the following majors/minors: Behavioral Biology, Biology, Neuroscience, Psychological & Brain Sciences, Public Health, and the Study of Women, Gender, & Sexuality. All registration will be done during the normal registration period and you must meet all requirements to register. Course focuses on sexual development, sexuality across the lifespan, gender identity, sexual attraction and arousal, sexually transmitted disease, and the history of commercial sex workers and pornography. Formerly taught as 200.302			
AS.200.204	02	S		Human Sexuality	3.00	25	T 9:00-11:30AM
AS.200.207	01	QS	W	Research Methods in Experimental Psychology <i>Yassa, Michael</i> Prereqs: EN.550.111 (Statistical Analysis I) EN.550.112 (Statistical Analysis II) Formerly known as Lab in the Analysis of Psychological Data (LAPD). This course is an overview of research methods used in psychology, experimental designs, interpreting results in psychology, and research ethics. Each student will complete an individual research project on a topic of his/her choosing as part of the course training. The class is taught interactively through lectures (Wed) and lab sections (Fri).	3.00	20	W 1:30-2:45PM; F 1:30-2:45PM
AS.200.207	02	QS	W	Research Methods in Experimental Psychology	3.00	20	W 1:30-2:45PM; F 1:30-2:45PM
AS.200.207	03	QS	W	Research Methods in Experimental Psychology	3.00	20	W 1:30-2:45PM; F 1:30-2:45PM
AS.200.207	04	QS	W	Research Methods in Experimental Psychology	3.00	20	W 1:30-2:45PM; F 1:30-2:45PM
AS.200.212	01	S		Abnormal Psychology <i>Noonberg, Aaron R</i> A survey of the major syndromes of psychological disorders. Research and theory about the mechanisms, development, and diagnosis of psychopathology are emphasized.	3.00	200	TTh 1:30-2:45PM
AS.200.309	01	S		Evolutionary Mechanisms of Human Behavior <i>Petri, Herbert</i> Prereq: 200.101 Intro. to Psychology This course examines the evolution of human adaptive behaviors. In particular it examines evolutionary contributions to behaviors concerned with problems of survival such as mating strategies, parenting, and group living.	3.00	25	M 1:30-3:50PM
AS.200.312	01	NS	W	Imaging the Human Mind <i>Courtney-Faruqee, Susan</i> Prereq: Statistical Analysis I (550.111) and Cognitive Neuroscience (080.203) or Equivalent (050.203)	3.00	19	MWF 11:00-11:50AM
AS.200.314	01	QS		Adv Statistical Methods <i>Yantis, Steven</i>	3.00	15	TTh 9:00-10:15AM

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Psychological & Brain Sciences

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: One statistics course Perm. Req'd. - In-person Registration only after 4/20/2009 Topics in applied probability and statistical inference; analysis of variance; experimental design. Intended for graduate students in psychology. This course does not fulfill the Small Group Experience requirement.			
AS.200.326	01	S	W	Law, Psychology and Public Policy <i>Hofer, Paul Jeffrey</i>	3.00	19	Th 4:00-6:20PM
				An introduction to applications of psychological research in policy analysis. Special emphasis is given to the use and misuse of psychology in Supreme Court advocacy and decision making in the areas of children's rights, adult sexuality, and educational and employment opportunity. Students should be familiar with statistics and regression analysis prior to taking this course.			
AS.200.328	01	S	W	Thry-Mthds/Clinical Psyc <i>Edwin, David H</i>	3.00	25	M 6:00-8:20PM
				A critical examination of the methods of observation, description, reasoning, inference, measurement and intervention that underlie the clinical practice of psychology and psychiatry. Cross listed with Behavioral Biology. Prereq: 200.212; Junior and Senior Psychology, Behavioral Biology and Cognitive Science majors only OR instructor approval.			
AS.200.333	01	S		Adv Social Psychology <i>Drigotas, Stephen M</i>	3.00	19	W 1:30-3:50PM
				Prereq: 200.133 Junior & Senior Psychology majors only The class is designed as a seminar including discussion of primary readings of social psychology articles ranging in topics from interpersonal relationship to behavior in large groups.			
AS.200.334	01	S	W	Advanced Psychopathology <i>Staff</i>	3.00	19	M 1:30-3:50PM
				Prereqs: AS.200.212; 60 credits at the time the course begins This is an advanced, discussion-based course covering the developmental, biological, environmental, and cultural bases of attentional, mood, psychotic, anxiety, trauma-based, eating, somatic, and personality disorders. Case formulations in class and review papers will be required.			
AS.200.341	01	S		Positive Psychology <i>Staff</i>	3.00	40	W 1:30-3:50PM
				The course will review the growing field of positive psychology and will review the research on positive human attributes such as optimism, happiness, hope, resiliency, self-esteem, altruism, empathy, and forgiveness. This course will explore the research on how such positive attributes are developed and how they relate to psychological and physical well-being.			
AS.200.344	01	NS		Behavioral Endocrinology <i>Ball, Gregory Francis</i>	3.00	70	TTh 10:30-11:45AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq:(AS.200.141 OR AS.080.305) OR (AS.020.151 & AS.020.152) OR (AS.020.305 & AS.020.306) or Perm. Req'd. - An examination of the effects of hormones on behavior in non-human and human animals. Topics will include the effects of hormones on sexual differentiation, reproductive behavior, parental behavior, homeostasis and biological rhythms, regulation of body weight, learning and memory. Cross-listed with Behavioral Biology and Neuroscience			
AS.200.376	01	NS		Psychopharmacology <i>Gorman, Linda K</i>	3.00	100	WF 1:30-2:45PM
				Prereq:(AS.200.141 OR AS.080.305) OR (AS.020.151 & AS.020.152) OR (AS.020.305 & AS.020.306)) or Perm. Req'd. - Psychopharmacology Designed to provide information about how drugs affect the brain and behavior. The course focuses on 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			
AS.200.386	01	NS		Animal Cognition <i>Holland, Peter C</i>	3.00	30	TTh 9:00-10:15AM
AS.200.401	01	S		Careers in Psychology - Freshman <i>Halberda, Justin</i>	1.00	100	Th 6:00-7:00PM
				An introduction to the varied career paths offered across the field of psychology, hosting a diverse representation of speakers from various Johns Hopkins institutions and the local Baltimore community.			
AS.200.402	01	S		Careers in Psychology - Sophomore <i>Halberda, Justin</i>	1.00	100	Th 6:00-7:00PM
				An introduction to the varied career paths offered across the field of psychology, hosting a diverse representation of speakers from various Johns Hopkins institutions and the local Baltimore community.			
AS.200.403	01	S		Careers in Psychology - Juniors <i>Halberda, Justin</i>	1.00	100	Th 6:00-7:00PM
				An introduction to the varied career paths offered across the field of psychology, hosting a diverse representation of speakers from various Johns Hopkins institutions and the local Baltimore community.			
AS.200.404	01	S		Careers in Psychology - Seniors <i>Halberda, Justin</i>	1.00	100	Th 6:00-7:00PM
				An introduction to the varied career paths offered across the field of psychology, hosting a diverse representation of speakers from various Johns Hopkins institutions and the local Baltimore community.			
AS.290.101	01	NS		Human Origins <i>Holland, Peter C</i>	3.00	100	TTh 3:00-4:15PM

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Psychological & Brain Sciences

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				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			
AS.290.420	01	S		Human Sexual Orientation <i>Kraft, Chris S</i> Limited to Juniors and Seniors with PBS, Neuroscience, Public Health, Behavioral Biology, and Biology majors, or Juniors and Seniors with PBS or Women's Studies minors. This course will examine the historical and current theories of sexual orientation and sexual variation development by examining the biological, psychological and social contributing factors that influence the development of sexual orientations and variations along with treatment and modification of problematic sexual behaviors.	3.00	25	T 3:00-5:30PM
AS.290.490	01	S		Sr Sem: Behavioral Bio <i>Holland, Peter C</i> 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
AS.290.490	02	S		Sr Sem: Behavioral Bio <i>Ball, Gregory Francis</i>	1.00	12	TBA

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Public Health Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.100.333	01	HS	W	Global Public Health Since World War II <i>Galambos, Louis P</i> Globalization has dramatically reshaped the world economy, providing great advantages to some but leaving poor nations to struggle with hunger, disease and death on a daily basis. This course explores the impact of globalization on public health in the developed and the developing nations since 1945. Cross-listed with Public Health Studies	3.00	15	MW 11:00-11:50AM; F 9:00-9:50AM
AS.100.333	02	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 8:00-8:50AM
AS.100.333	03	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.333	04	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.333	05	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 9:00-9:50AM
AS.100.333	06	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM
AS.100.333	07	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 8:00-8:50AM
AS.100.333	08	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM
AS.140.105	01	HS		History of Medicine <i>Fissell, Mary E</i> Course provides an overview of the medical traditions of six ancient cultures; the development of Greek and Islamic traditions in Europe; and the reform and displacement of the Classical traditions during the Scientific Revolution. Cross-listed with Public Health Studies	3.00	15	F 10:00-10:50AM; MW 10:00-10:50AM
AS.140.105	02	HS		History of Medicine	3.00	15	F 10:00-10:50AM; MW 10:00-10:50AM
AS.140.105	03	HS		History of Medicine	3.00	15	MW 10:00-10:50AM; F 10:00-10:50AM
AS.140.105	04	HS		History of Medicine	3.00	15	MW 10:00-10:50AM; F 10:00-10:50AM
AS.140.105	05	HS		History of Medicine	3.00	15	F 10:00-10:50AM; MW 10:00-10:50AM
AS.150.219	01	H	W	Intro to Bioethics <i>Bok, Hilary</i> Introduction to a wide range of moral issues arising in the biomedical fields, e.g. physician-assisted suicide, human cloning, abortion, surrogacy, and human subjects research. Cross listed with Public Health Studies.	3.00	20	F 12:00-12:50PM; MW 12:00-12:50PM
AS.150.219	02	H	W	Intro to Bioethics	3.00	20	F 12:00-12:50PM; MW 12:00-12:50PM
AS.150.219	03	H	W	Intro to Bioethics	3.00	20	W 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	04	H	W	Intro to Bioethics	3.00	20	W 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	05	H	W	Intro to Bioethics	3.00	20	F 12:00-12:50PM; MW 12:00-12:50PM
AS.150.219	06	H	W	Intro to Bioethics	3.00	20	F 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	07	H	W	Intro to Bioethics	3.00	20	W 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	08	H	W	Intro to Bioethics	3.00	20	W 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	09	H	W	Intro to Bioethics	3.00	20	F 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	10	H	W	Intro to Bioethics	3.00	20	F 2:00-2:50PM; MW 12:00-12:50PM
AS.150.219	11	H	W	Intro to Bioethics	3.00	20	W 4:00-4:50PM; MW 12:00-12:50PM
AS.150.219	12	H	W	Intro to Bioethics	3.00	20	W 5:00-5:50PM; MW 12:00-12:50PM
AS.150.219	13	H	W	Intro to Bioethics	3.00	20	F 1:30-2:20PM; MW 12:00-12:50PM
AS.150.219	14	H	W	Intro to Bioethics	3.00	20	W 2:00-2:50PM; MW 12:00-12:50PM
AS.180.252	01	S	W	Economics of Discrimination <i>Morgan, Barbara Anne</i>	3.00	30	T 1:30-3:50PM

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Public Health Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: 180.102 or equivalent 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.			
AS.180.289	01	S		Economics of Health <i>Bishai, David M</i> Prereq: 180.102 Application of economic concepts and analysis to the health services system. Review of empirical studies of demand for health services, behavior of providers, and relationship of health services to population health levels. Discussion of current policy issues relating to financing and and resource allocation. Cross-listed with Public Health Studies	3.00	100	M 3:30-5:50PM
AS.190.405	01	S	W	Food Politics <i>Sheingate, Adam</i> Juniors, Seniors, and Graduate Students Only This course examines the politics of food at the local, national, and global level. Topics include the politics of agricultural subsidies, struggles over genetically modified foods, government efforts at improving food safety, and issues surrounding obesity and nutrition policy. (AP & CP) Cross-listed with Public Health Studies	3.00	15	T 1:30-3:50PM
AS.195.477	01	S	W	Intro To Urban Policy <i>Newman, Sandra J</i> Perm. Req'd. 195.477 & 195.478 must be taken together by undergraduates Cross-listed with Political Science, Sociology, Public Health Studies, and Geography and Environmental Engineering	3.00	15	T 5:00-6:50PM
AS.195.478	01		W	Urban Policy Internship <i>Newman, Sandra J</i> 195.478 & 195.477 must be taken together by undergraduates Cross-listed with Political Science, Sociology, Public Health Studies, and Geography and Environmental Engineering	3.00	15	None
AS.230.225	01	S		Population, Health and Development <i>Becker, Stanley</i>	3.00	87	Th 9:00-10:15AM; T 9:00-10:15AM

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Public Health Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course will cover the major world population changes in the past century as well as the contemporary situation and projections for this century. Topics include rapid population growth, the historical and continuing decline of death and birth rates, contraceptive methods as well as family planning and child survival programs, population aging, urbanization, population and the environment and the demographic effects of HIV/AIDS. Cross-listed with Public Health Studies			
AS.230.225	02	S		Population, Health and Development	3.00	87	Th 10:30-11:45AM; T 9:00-10:15AM
AS.230.341	01	S		Medical Sociology <i>Staff</i>	3.00	15	M 3:00-4:50PM; W 3:00-3:50PM
				This course introduces students to medical sociology, which is the application of the sociological perspective to health and health care. Major topics include stress, social epidemiology, and the social organization of health care. Cross-listed with Public Health Studies			
AS.230.341	02	S		Medical Sociology	3.00	15	W 3:00-3:50PM; M 3:00-4:50PM
AS.230.341	03	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 3:00-3:50PM
AS.230.341	04	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM
AS.230.341	05	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM
AS.230.341	06	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM
AS.280.100	01	S		Public Health in Film and Media <i>Smart, Mieka Jasmine</i>	1.00	60	F 1:30-3:50PM
				Freshmen Only. S/U Grading Only. This course uses film to explore and question the cultural landscape of public health in today's society. Public health is a richly diverse field that reaches not only into many areas of daily life, but into our cultural imagination as well. The purpose of this class is to examine how public health matters such as epidemic disease, access to health care, health and the law, bioethics, neglected tropical diseases and other topics are portrayed in feature films and documentaries. Each week students will view and discuss a film or documentary that addresses a public health issue.			

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Public Health Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.280.215	01	S		Understanding Behavior Change: Theory and Application <i>Folda, Lisa Kristin</i> Sophomores Only. This course will begin by exposing students to a variety of theories of behavior change - why and how we do it, and why we often don't. From there they will apply this knowledge to, part of a semester-long group project, develop a health communication campaign designed to encourage changing a behavior among their peers. They will practice the skills necessary to analyze a problem, develop a campaign strategy, create persuasive materials, and implement and monitor that campaign. Some elements of impact evaluation will also be covered in this course. Introduction to Public Health is recommended but not required.	3.00	20	W 1:30-4:00PM
AS.280.220	01	S		Baltimore and The Wire: A focus on major urban issues <i>Beilenson, Peter</i> Freshmen/Sophomores Only. Playing off the themes raised in the HBO series "The Wire", this course will provide an introduction to major issues confronting Baltimore and other American urban centers through a series of lectures by policy makers in the region.	3.00	60	MW 3:00-4:15PM
AS.280.311	01	S		Math, Money and the Mind: Controversies in Medical Decision Making <i>Turnbull, Alison Elizabeth</i> How do doctors decide what to prescribe? How do clinical studies, elected officials, drug companies, personal beliefs, and insurance companies influence those decisions? This will not be on your MCATs. No prerequisites required. Recommended: previous course in Introductory Statistics or Biostatistics. Deans Teaching Fellowship Course.	3.00	20	F 1:30-3:50PM
AS.280.318	01	S		Food, Nutrition, and Public Health <i>Lee, Seung Hee</i> This course explores an array of questions related to nutrition, food access, socioeconomic and demographic factors that affects individuals, communities, and public policy. Students will seek answers through field trips, guest lectures, and discussion seminars. Deans Teaching Fellowship Course.	3.00	25	MW 1:30-2:45PM

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Public Health Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.280.335	01	N		The Environment and Your Health <i>Trush, Michael A</i> This course surveys the basic concepts underlying environmental health sciences (toxicology, exposure assessment, risk assessment), current public health issues (hazardous waste, water- and food - borne diseases) and emerging global health threats (global warming, built environment, ozone depletion, sustainability). Cross-listed with Earth and Planetary Sciences and Geography and Environmental Engineering – PHS, GECS, and EPS majors have 1st priority for enrollment. Your enrollment may be withdrawn at the discretion of the instructor if you are not a GECS, PHS, or EPS major.	3.00	200	TTh 4:30-5:45PM
AS.280.345	01	Q		Public Health Biostats <i>Zeger, Scott</i> Prereq: Four years of high school math Using problem-based learning focusing on public health topics, students learn to describe & summarize data, make inferences regarding population parameters, & test hypotheses.	4.00	25	TTh 3:00-4:15PM; M 2:00-2:50PM
AS.280.345	02	Q		Public Health Biostats	4.00	25	TTh 3:00-4:15PM; M 3:00-3:50PM
AS.280.345	03	Q		Public Health Biostats	4.00	25	TTh 3:00-4:15PM; T 2:00-2:50PM
AS.280.345	04	Q		Public Health Biostats	4.00	25	TTh 3:00-4:15PM; W 2:00-2:50PM
AS.280.345	05	Q		Public Health Biostats	4.00	25	TTh 3:00-4:15PM; W 3:00-3:50PM
AS.280.345	06	Q		Public Health Biostats	4.00	25	TTh 3:00-4:15PM; Th 2:00-2:50PM
AS.280.345	07	Q		Public Health Biostats	4.00	25	F 2:00-2:50PM; TTh 3:00-4:15PM
AS.280.345	08	Q		Public Health Biostats	4.00	25	F 3:00-3:50PM; TTh 3:00-4:15PM
AS.280.399	01	S		Practicum Comm Hlth Care <i>Bone, Lee R</i> Seniors & Juniors only. Perm. Req'd. This course is designed to expose students to urban health with focus on Baltimore City through lectures, class discussions, and experiential learning. Students will select a community-based organization (CBO) according to their expressed interests and schedule in order to complete 45 hours of service based learning. Grades are based on participation, completion of service learning project, presentation, and papers.	3.00	40	M 4:30-6:00PM
AS.280.495	01	S	W	Honors in PH - Seminar <i>Gebo, Kelly</i> Perm Req'd from Instructor before enrolling. Using lectures, oral presentations, and writing assignments, this seminar is designed to assist Public Health Studies majors in writing a senior thesis. Students will formulate their topics, develop research skills, and address issues of professional ethics. Participating in this seminar is required for students pursuing honors in PH studies.	3.00	30	W 10:30-11:50AM
EN.570.108	01	E		Intro Environmental Eng <i>Alavi, Hedy V</i>	3.00	70	TTh 12:00-1:15PM

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Public Health Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
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Overview of environmental engineering including water/air quality issues, water supply/wastewater treatment, hazardous/solid waste management, pollution prevention, global environmental issues, public health considerations/environmental laws, regulations and ethics.
Cross listed with Public Health Studies

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Public Policy

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.195.477	01	S	W	Intro To Urban Policy <i>Newman, Sandra J</i> Perm. Req'd. 195.477 & 195.478 must be taken together by undergraduates Cross-listed with Political Science, Sociology, Public Health Studies, and Geography and Environmental Engineering	3.00	15	T 5:00-6:50PM
AS.195.478	01		W	Urban Policy Internship <i>Newman, Sandra J</i> 195.478 & 195.477 must be taken together by undergraduates Cross-listed with Political Science, Sociology, Public Health Studies, and Geography and Environmental Engineering	3.00	15	None

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Sociology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.195.477	01	S	W	Intro To Urban Policy <i>Newman, Sandra J</i> Perm. Req'd. 195.477 & 195.478 must be taken together by undergraduates Cross-listed with Political Science, Sociology, Public Health Studies, and Geography and Environmental Engineering	3.00	15	T 5:00-6:50PM
AS.195.478	01		W	Urban Policy Internship <i>Newman, Sandra J</i> 195.478 & 195.477 must be taken together by undergraduates Cross-listed with Political Science, Sociology, Public Health Studies, and Geography and Environmental Engineering	3.00	15	None
AS.230.123	01	S		Trust and Altruism: Existence and Forms in Theory and Practice <i>Plank, Stephen</i> Freshmen only. Trust is often cited as necessary to the successful functioning of small groups, formal organizations, and democratic society. Altruism is a concept that is debated regarding its very existence – whether there is a sociological, biological, or other basis for saying it exists. Through interdisciplinary readings – primarily from sociology but also evolutionary biology, psychology, and philosophy – we will consider theories of trust and altruism, as well as claims about other mechanisms that can secure mutually beneficial cooperation. Case studies from families, education, neighborhood ecology, and on-line communities are featured.	3.00	15	MW 3:00-4:15PM
AS.230.205	01	S		Intro Social Statistics <i>Pasciuti, Daniel Steven</i> This course will introduce students to the application of statistical techniques commonly used in sociological analysis. Topics include measures of central tendency and dispersion, probability theory, confidence intervals, chi-square, anova, and regression analysis. Hands-on computer experience with statistical software and analysis of data from various fields of social research.	4.00	15	F 10:00-10:50AM; TTh 10:30-11:45AM
AS.230.205	02	S		Intro Social Statistics	4.00	15	F 11:00-11:50AM; TTh 10:30-11:45AM
AS.230.208	01	S		Introduction to Race and Ethnicity <i>McDonald, Katrina Bell</i> This course offers an historical overview of race and ethnicity in American society, and the processes that have led to ethnic and racial boundaries. We explore the social dynamics of racial/ethnic hostility and racial/ethnic protest movements. In addition, we examine how race and ethnicity have been used to justify segregation, domination and genocide, but also to create a sense of community, shared responsibility and belonging.	3.00	50	TTh 10:30-11:45AM
AS.230.225	01	S		Population, Health and Development <i>Becker, Stanley</i>	3.00	87	Th 9:00-10:15AM; T 9:00-10:15AM

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Sociology

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course will cover the major world population changes in the past century as well as the contemporary situation and projections for this century. Topics include rapid population growth, the historical and continuing decline of death and birth rates, contraceptive methods as well as family planning and child survival programs, population aging, urbanization, population and the environment and the demographic effects of HIV/AIDS. Cross-listed with Public Health Studies			
AS.230.225	02	S		Population, Health and Development	3.00	87	Th 10:30-11:45AM; T 9:00-10:15AM
AS.230.312	01	S	W	Education & Society <i>Alexander, Karl L</i>	3.00	25	TTh 1:30-2:45PM
				This course examines how educational institutions affect students' skills, values, and social mobility across generations. Research reviewed that compares educational institutions according to their formal and interpersonal structures.			
AS.230.313	01	S	W	Space, Place, Poverty & Race: Sociological Perspectives on Neighborhoods & Public Housing <i>Deluca, Stefanie</i>	3.00	30	T 3:00-5:30PM
				Is a neighborhood just a grouping of individuals living in the same place, or do neighborhoods have collective meanings and impacts on children and families? We will capitalize on research methodologies used to define and describe neighborhoods and their effects on economic and educational outcomes. These include case studies, census data, surveys, quasi/experimental data. Focus is on how research measures neighborhood effects and incorporates community level processes into models of social causation (e.g., social capital/control, community efficacy, civic engagement). Also examined: patterns in residential mobility, segregation, and preferences within black and white populations; development of housing policy in the U.S.; programs to determine how neighborhoods affect issues of social importance. Statistics and public policy background is helpful but not required.			
AS.230.318	01	S		State and Society in Modern India <i>Agarwala, Rina</i>	3.00	30	Th 3:00-5:30PM
				This course examines the complex, at times conflicting, relationship that has emerged between Indian seats of power from above and Indian expressions of society from below. Attention will be placed on the period between 1947 to the present.			
AS.230.325	01	S		Comparative and Historical Sociology Research Practicum <i>Silver, Beverly Judith</i>	3.00	24	TBA
				This course provides "hands on" research experience in comparative and historical sociology. Sociological research tools and perspectives will be used to analyze social structure, conflict and change. This course is suitable for both majors and non majors, and fulfills the "research practicum" requirement for Sociology majors.			

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.230.341	01	S		Medical Sociology <i>Staff</i> This course introduces students to medical sociology, which is the application of the sociological perspective to health and health care. Major topics include stress, social epidemiology, and the social organization of health care. Cross-listed with Public Health Studies	3.00	15	M 3:00-4:50PM; W 3:00-3:50PM
AS.230.341	02	S		Medical Sociology	3.00	15	W 3:00-3:50PM; M 3:00-4:50PM
AS.230.341	03	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 3:00-3:50PM
AS.230.341	04	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM
AS.230.341	05	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM
AS.230.341	06	S		Medical Sociology	3.00	15	M 3:00-4:50PM; W 4:00-4:50PM
AS.230.343	01	S		Political Sociology of Latin America <i>von der Heydt-Coca, Magda Zonia</i> This course provides an overview of Latin America through its historical, economic, social, and political dimensions. Emphasis will be given to the analysis of social structures: class, race and ethnicity, and the contemporary social movements. The course begins with an overview of the pre-Columbian civilizations and colonial legacies that gave rise to the multiethnic societies and the ethnic conflicts which characterize contemporary Latin America.	3.00	30	TTh 10:30-11:45AM
AS.230.353	01	S		Global Social Change <i>Hung, Ho-Fung</i> This course introduces students to issues of global social change, with a particular focus on the challenges of international development and the contemporary globalization process. Specific themes include world income inequality and global poverty, the rise of supranational organizations (e.g. WTO and EU) and their relations with sovereign states, anti-globalization activism, the rise of China and India in the global economy, and the origins as well as consequences of the current global economic crisis, among others. Lectures will be aided by documentary films and other multi-media materials.	3.00	30	TTh 9:00-10:15AM
AS.230.357	01	S		The West in the East <i>Kuo, Huei-Ying</i>	3.00	30	MW 1:30-2:45PM
AS.230.388	01	S		Sociology Of The Family <i>Cherlin, Andrew J</i> Sociological perspectives on contemporary family life, including marriage and divorce, cohabitation, single parenthood, same sex partnerships, children's well being, balancing work and family responsibilities, domestic violence, and government policy toward families.	3.00	15	MW 3:00-4:15PM
AS.230.415	01	S	W	Social Problems in Contemporary China <i>Andreas, Joel</i>	3.00	25	MW 3:00-4:15PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
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In this course we will examine contemporary Chinese society, looking at economic development, rural transformation, urbanization and migration, labor relations, changes in class structure and family organization, health care, environmental problems, governance, and popular protest. The course is designed for both graduate and undergraduate students. Undergraduates must have already completed a course about China at Hopkins. Cross-listed with East Asian Studies

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Study of Women, Gender, & Sexuality

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.070.385	01	HS	W	From Sexual Nature to Sexual Politics <i>Goodfellow, Aaron</i> This course traces anthropological concern with questions of sexuality. Students will explore anthropological notions of primitive promiscuity, cultural configurations of the correspondence between sex, procreation, and birth, and ideas about sexual rites of passage. The course will end with a discussion of sexual politics in Euro-America and public concern over HIV/AIDS. The course draws on the work of Freud, Malinowski, Meade, Herdt, Povinelli, Rubin, Bersani and Halperin. Cross-listed with WGS	3.00	25	TTh 10:30-11:45AM
AS.100.333	01	HS	W	Global Public Health Since World War II <i>Galambos, Louis P</i> Globalization has dramatically reshaped the world economy, providing great advantages to some but leaving poor nations to struggle with hunger, disease and death on a daily basis. This course explores the impact of globalization on public health in the developed and the developing nations since 1945. Cross-listed with Public Health Studies	3.00	15	MW 11:00-11:50AM; F 9:00-9:50AM
AS.100.333	02	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 8:00-8:50AM
AS.100.333	03	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.333	04	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 11:00-11:50AM
AS.100.333	05	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 9:00-9:50AM
AS.100.333	06	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM
AS.100.333	07	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 8:00-8:50AM
AS.100.333	08	HS	W	Global Public Health Since World War II	3.00	15	MW 11:00-11:50AM; F 10:00-10:50AM
AS.100.334	01	HS	W	Gender and the Economy in America, 1600-1870 <i>Damiano, Sara Tabak</i> Examines white, African, and Native American women's economic activities in early America, including as laborers, entrepreneurs, and consumers. Also considers women's economic and political roles during the Revolution and Civil War.	3.00	18	TTh 9:00-10:15AM
AS.100.428	01	HS	W	London-20th Century <i>Walkowitz, Judith</i> This course investigates the history of London between 1900 and 1960. The following themes are explored: the built environment, the local and the global, policing and crime, sexual scandal, popular entertainments and erotic pleasure, consumer culture and the media, cultural imperialism, the experience of war, social democracy, and the emergence of a multi-racial urban society. Cross-listed with Studies of Women, Gender, and Sexuality	3.00	20	W 1:30-3:45PM
AS.140.111	01	HS		Freshman Seminar: When Worlds Collide: Western Science Goes Global <i>Portuondo, Maria M</i> We will explore instances of first contact between different world cultures and western science (16th-20th c.). Some cases considered include Jesuits in the Chinese imperial court, Spanish missionaries and the Maya.	3.00	15	TTh 10:30-11:45AM

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Study of Women, Gender, & Sexuality

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.180.252	01	S	W	Economics of Discrimination <i>Morgan, Barbara Anne</i> Prereq: 180.102 or equivalent 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	T 1:30-3:50PM
AS.180.289	01	S		Economics of Health <i>Bishai, David M</i> Prereq: 180.102 Application of economic concepts and analysis to the health services system. Review of empirical studies of demand for health services, behavior of providers, and relationship of health services to population health levels. Discussion of current policy issues relating to financing and and resource allocation. Cross-listed with Public Health Studies	3.00	100	M 3:30-5:50PM
AS.180.355	01	S		Economics of Poverty and Inequality <i>Moffitt, Robert A</i> Covers the theories and evidence developed by economist for the analysis of income inequality and poverty. The first half of the course discusses economic theories of inequality as well as motivations for why society should care about inequality and poverty, and also covers concepts and detailed statistical measures. The second half of the course considers theories and evidence for different explanations: human capital, intergenerational transmissions, neighborhoods, family structure and discrimination. Solutions and government policies to reduce inequality and poverty are discussed. Prerequisites are: Microeconomic theory (180.301). Knowledge of statistical analysis up to the level of simple regression is also helpful.	3.00	30	TTh 10:30-11:45AM
AS.200.204	01	S		Human Sexuality <i>Kraft, Chris S</i>	3.00	25	T 12:00-2:20PM

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Study of Women, Gender, & Sexuality

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Juniors and Seniors only within the following majors/minors: Behavioral Biology, Biology, Neuroscience, Psychological & Brain Sciences, Public Health, and the Study of Women, Gender, & Sexuality. All registration will be done during the normal registration period and you must meet all requirements to register. Course focuses on sexual development, sexuality across the lifespan, gender identity, sexual attraction and arousal, sexually transmitted disease, and the history of commercial sex workers and pornography. Formerly taught as 200.302			
AS.200.204	02	S		Human Sexuality	3.00	25	T 9:00-11:30AM
AS.200.309	01	S		Evolutionary Mechanisms of Human Behavior <i>Petri, Herbert</i>	3.00	25	M 1:30-3:50PM
				Prereq: 200.101 Intro. to Psychology This course examines the evolution of human adaptive behaviors. In particular it examines evolutionary contributions to behaviors concerned with problems of survival such as mating strategies, parenting, and group living.			
AS.213.403	01	H		Women and Their Representation in Modern Jewish Literature <i>Caplan, Marc</i>	3.00	50	WF 12:00-1:15PM
				If the development of modern literary forms such as the novel, the short story, and the autobiography in Jewish languages commences at a much later date than in other European cultures, the participation of women in the cultivation of these literary forms in Yiddish or Hebrew begins even later: only at the very beginning of the 20th century. What are some of the cultural and historical factors that account for this belatedness? How were women depicted in Jewish literature prior to their entry into the literary marketplace? How does the late start of female writers in these languages affect the formal and political character of their writing? What do aesthetic differences between poetry and prose genres signify about this writing? How do cultural assumptions in Jewish languages differentiate women's writing from similar forms and genres in other languages? These questions, among others, will be considered with reference to a variety of narratives and poems taken from Yiddish, Hebrew, German, and English sources. Authors to be considered will include Esther Singer Kreitman, Anna Margolin, Kadya Molodowsky, Chava Rosenfarb, Rachel Bluwstein, Leah Goldberg, Orly Castel-Bloom, Else Lasker-Schüller, and Gertrude Stein. All readings and discussions in English.			
AS.230.225	01	S		Population, Health and Development <i>Becker, Stanley</i>	3.00	87	Th 9:00-10:15AM; T 9:00-10:15AM

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Study of Women, Gender, & Sexuality

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				This course will cover the major world population changes in the past century as well as the contemporary situation and projections for this century. Topics include rapid population growth, the historical and continuing decline of death and birth rates, contraceptive methods as well as family planning and child survival programs, population aging, urbanization, population and the environment and the demographic effects of HIV/AIDS. Cross-listed with Public Health Studies			
AS.230.225	02	S		Population, Health and Development	3.00	87	Th 10:30-11:45AM; T 9:00-10:15AM
AS.250.351	01	N		Reproductive Physiology <i>Zirkin, Barry R</i> Prereq: 020.305 Focuses on reproductive physiology and biochemical and molecular regulation of the female and male reproductive tracts. Topics include the hypothalamus and pituitary, peptide and steroid hormone action, epididymis and male accessory sex organs, female reproductive tract, menstrual cycle, ovulation and gamete transport, fertilization and fertility enhancement, sexually transmitted diseases, and male and female contraceptive methods. Introductory lectures on each topic followed by research-oriented lectures and readings from current literature. Cross listed with Biology.	2.00	90	W 3:00-4:45PM
AS.290.420	01	S		Human Sexual Orientation <i>Kraft, Chris S</i> Limited to Juniors and Seniors with PBS, Neuroscience, Public Health, Behavioral Biology, and Biology majors, or Juniors and Seniors with PBS or Women's Studies minors. This course will examine the historical and current theories of sexual orientation and sexual variation development by examining the biological, psychological and social contributing factors that influence the development of sexual orientations and variations along with treatment and modification of problematic sexual behaviors.	3.00	25	T 3:00-5:30PM
AS.300.367	01	H	W	Seeing Like a Woman <i>Eakin Moss, Anne</i> This seminar examines the problems of female desire, subjectivity, spectatorship and performance in fiction, poetry, memoir and film from a variety of cultures and theoretical perspectives. Readings include: Leo Tolstoy's "Family Happiness," Virginia Woolf's Orlando, Nella Larsen's Passing; Poetry by Moore, Bishop, Plath, Akhmatova, Tsvetaeva and Szyborska. Films by Deren, Hitchcock, Campion, Akerman, Varda, Denis.	3.00	15	Th 1:30-3:50PM
AS.360.133	01	H	W	Great Books at Hopkins <i>Patton, Elizabeth</i>	3.00	15	TTh 10:30-11:45AM

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Study of Women, Gender, & Sexuality

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Great Books at Hopkins is designed for first-year students, and explores some of the greatest works of the literary and philosophical tradition in Europe and the Americas. In lectures, panel sessions, small seminars, and multimedia presentations, professors from a variety of academic disciplines lead students in exploring authors across history. Close reading and intensive writing instruction are hallmarks of this course, as is a changing reading list that includes, for this fall, Homer, Plato, Dante, Machiavelli, Shakespeare, Flaubert, Douglass, and Woolf, as well as musical compositions by Bach and Ravel.			
AS.360.133	02	H	W	Great Books at Hopkins <i>Ong, Yi-Ping</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	03	H	W	Great Books at Hopkins <i>Coleman, James</i>	3.00	15	TTh 10:30-11:45AM
AS.360.133	04	H	W	Great Books at Hopkins <i>Talle, Andrew</i>	3.00	15	TTh 10:30-11:45AM

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Theatre Arts & Studies

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.225.301	01	H		Acting & Directing Workshop I <i>Astin, John</i> An introduction to the fundamentals of acting through exercises, improvisation, and work on scenes from established plays and Shakespearean sonnets, based on the teachings of Stanislavsky, Greet, Boleslavsky, Michael Chekhov, Clurman, and Meisner. This course also includes a brief survey of major playwrights. Plays will be read, analyzed, and employed in scene work. Auditions: Thursday, Friday and Saturday, April 12, 13, and 14 (10:00-11:30am). Seniors by permission only.	3.00	12	T 1:30-4:00PM
AS.225.301	02	H		Acting & Directing Workshop I	3.00	12	W 1:30-4:00PM
AS.225.304	01	H		Acting for Musical Theatre <i>Denithorne, Margaret</i> Permission only	3.00	15	W 6:00-8:30PM
AS.225.307	01	H		Directing Seminar <i>Glossman, James</i> Fundamentals of mounting, casting and staging the play; various theories of directing; students must commit to a practical lab. It is understood that students have a working familiarity with acting fundamentals.	3.00	14	M 6:00-8:30PM
AS.225.310	01	H		Stagecraft <i>Roche, William C</i> Permission Required. A hands-on approach to the technical and theoretical elements of production. Meets in the Merrick Barn Scene Shop.	3.00	6	TTh 10:30-11:45AM
AS.225.312	01	H		Acting Workshop: Chekhov and O'Neill <i>Astin, John</i> Using the plays of Anton Chekhov and Eugene O'Neill, the acting fundamentals from the Workshops are applied in both preparation and scene work as the student employs the basics in order to build a character for the stage. Play analysis is included. Prereq: At least one acting workshop.	3.00	12	F 1:30-4:00PM
AS.225.314	01	H		Theater:Tech Direction <i>Roche, William C</i> An introduction to Technical Direction including pre-production and production with an overview of materials, tools, rigging and safety, together with design and its implementation.	3.00	14	MW 12:00-1:15PM
AS.225.317	01	H		Introduction to Theatre <i>Martin, Joseph H</i> Where theatre came from; how it emerged and what role it has played in human history; why the drama (or written text for a performance) came into being; and how changing social structures in different regions and epochs have shaped different kinds of theatre, plays and performance. Also: how theatre "works" for us and on us, and the major plays of world drama. [This course fulfills a key requirement in the Theatre minor.]	3.00	20	M 3:00-5:30PM
AS.225.319	01	H		Performance II <i>Astin, John</i>	4.00	12	TBA

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AS.225.321	01	H		<p>The student is given specific acting assignments, and develops them as special projects for public performance under the direct supervision of the instructor. A professional level of performance is the goal. Audition Req'd. Out of class rehearsal time required. Check at the Barn (6-0618) Auditions TBA.</p> <p>The Lab - The Actor/Director/Playwright Lab <i>Denithorne, Margaret</i></p> <p>Student actors, directors, and playwrights will explore their respective crafts with emphasis on process and individual artistic growth. Participants in the class will also collaborate on the creation of new material for the stage. Prereq: At least one course in Acting, Directing, or Playwriting. Permission required. Contact instructor at 6-0618.</p>	3.00	12	Th 5:00-7:30PM
AS.225.331	01	H		<p>Acting Styles and the "Viewpoints" <i>Martin, Joseph H</i></p> <p>This course is designed for acting students who have already completed one or both of the first levels in acting or the first level in directing. Uses the cutting edge approach to enhanced physicality and presence in acting – The Viewpoints, originally developed by Anne Bogart and Tina Landau. The second half of the course involves work on scenes from Commedia delle'Arte to modern absurdist plays.</p>	3.00	20	W 3:00-5:30PM
AS.225.345	01	H	W	<p>History of Modern Theatre & Drama <i>Denithorne, Margaret</i></p> <p>Designed to impart a deepened appreciation and understanding of today's theatre by surveying the major playwrights, historical movements, and theatre practices of the 20th century. The course also seeks to help students understand theatre's relationship to the societal and political power structure of each era and to introduce students to great dynamic literature in its intended form, which is performance.</p>	3.00	25	Th 1:30-4:00PM

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AS.220.105	01	H	W	Fiction/Poetry Writing I <i>Blake, Glenn</i> This course is a prerequisite for most upper level courses A course in realist fiction and traditional verse, with readings in Eudora Welty, Vladimir Nabokov, Henry James, Robert Frost, Paul Fussell, John Gardner, Seamus Heane, and Gwendolyn Brooks. This first course for writers is a study of forms of short fiction and metered verse. Students compose short stories and poems; includes practice of critical attention to literary models and workshop of student writing.	3.00	17	MWF 9:00-9:50AM
AS.220.105	02	H	W	Fiction/Poetry Writing I	3.00	17	MWF 9:00-9:50AM
AS.220.105	03	H	W	Fiction/Poetry Writing I	3.00	17	MWF 9:00-9:50AM
AS.220.105	04	H	W	Fiction/Poetry Writing I	3.00	17	MWF 9:00-9:50AM
AS.220.105	05	H	W	Fiction/Poetry Writing I	3.00	17	MWF 9:00-9:50AM
AS.220.105	06	H	W	Fiction/Poetry Writing I	3.00	17	MWF 10:00-10:50AM
AS.220.105	07	H	W	Fiction/Poetry Writing I	3.00	17	MWF 10:00-10:50AM
AS.220.105	08	H	W	Fiction/Poetry Writing I	3.00	17	MWF 11:00-11:50AM
AS.220.105	09	H	W	Fiction/Poetry Writing I	3.00	17	MWF 11:00-11:50AM
AS.220.105	10	H	W	Fiction/Poetry Writing I	3.00	17	MWF 11:00-11:50AM
AS.220.105	11	H	W	Fiction/Poetry Writing I	3.00	17	MWF 11:00-11:50AM
AS.220.105	12	H	W	Fiction/Poetry Writing I	3.00	17	MWF 12:00-12:50PM
AS.220.105	13	H	W	Fiction/Poetry Writing I	3.00	17	MWF 12:00-12:50PM
AS.220.105	14	H	W	Fiction/Poetry Writing I	3.00	17	MWF 12:00-12:50PM
AS.220.105	15	H	W	Fiction/Poetry Writing I	3.00	17	MWF 12:00-12:50PM
AS.220.105	16	H	W	Fiction/Poetry Writing I	3.00	17	MWF 12:00-12:50PM
AS.220.105	17	H	W	Fiction/Poetry Writing I	3.00	17	TTh 9:00-10:15AM
AS.220.105	18	H	W	Fiction/Poetry Writing I	3.00	17	TTh 9:00-10:15AM
AS.220.105	19	H	W	Fiction/Poetry Writing I	3.00	17	TTh 10:30-11:45AM
AS.220.105	20	H	W	Fiction/Poetry Writing I	3.00	17	TTh 10:30-11:45AM
AS.220.105	21	H	W	Fiction/Poetry Writing I	3.00	17	TTh 10:30-11:45AM
AS.220.105	22	H	W	Fiction/Poetry Writing I	3.00	17	TTh 10:30-11:45AM
AS.220.105	23	H	W	Fiction/Poetry Writing I	3.00	17	TTh 10:30-11:45AM
AS.220.105	24	H	W	Fiction/Poetry Writing I	3.00	17	TTh 12:00-1:15PM
AS.220.105	25	H	W	Fiction/Poetry Writing I	3.00	17	TTh 12:00-1:15PM
AS.220.105	26	H	W	Fiction/Poetry Writing I	3.00	17	MWF 11:00-11:50AM
AS.220.105	27	H	W	Fiction/Poetry Writing I	3.00	17	TTh 10:30-11:45AM
AS.220.105	28	H	W	Fiction/Poetry Writing I	3.00	17	TTh 12:00-1:15PM
AS.220.106	01	H	W	Fiction/Poetry Writing II <i>Blake, Glenn</i> Prereq: 220.105 - This course is a prerequisite for most upper level courses - The second half of IFP, a course in counter-traditional antirealist fiction and free verse (Emily Dickinson, Virginia Woolf, Elizabeth Bishop, Franz Kafka, Italo Calvino, and William Carlos Williams).	3.00	17	MWF 11:00-11:50AM
AS.220.106	02	H	W	Fiction/Poetry Writing II	3.00	17	MWF 12:00-12:50PM
AS.220.106	03	H	W	Fiction/Poetry Writing II	3.00	17	TTh 10:30-11:45AM
AS.220.106	04	H	W	Fiction/Poetry Writing II	3.00	17	TTh 10:30-11:45AM

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AS.220.106	05	H	W	Fiction/Poetry Writing II	3.00	17	TTh 10:30-11:45AM
AS.220.108	01	H	W	Introduction to Fiction & Nonfiction <i>Cavanaugh-Simpson, Joanne</i> IFN I can be substituted for IFP I. Permission not required. Limit 17 A course in realist fiction and nonfiction, with readings by Eudora Welty, Vladimir Nabokov, Henry James; George Orwell, Beryl Markham and Truman Capote. Students compose short stories and essays with attention to literary models.	3.00	17	T 6:00-8:30PM
AS.220.146	01	H	W	Introduction to Science Writing <i>Staff</i> Science writing translates science to nonscientists. Students read, interview scientists, organize, write initial drafts, then revise, with practice under journalistic pressures of deadlines and verification. Background in science is useful but not essential.	3.00	15	T 1:30-3:50PM
AS.220.146	02	H	W	Introduction to Science Writing <i>Finkbeiner, Ann</i>	3.00	15	Th 1:30-3:50PM
AS.220.200	01	H		Introduction to Fiction <i>Blake, Glenn</i> Perm. Req'd. - Prereqs - AS.220.105 and AS.220.106 - Study in the reading and writing of short narrative with focus on basic technique: subject, narrative voice, character, sense of an ending, etc. Students will write weekly sketches, present story analyses in class, and workshop one finished story. Selected parallel readings from such models of the form as Henry James, Anton Chekov, James Joyce, John Cheever, Alice Munro, and others. IFP I and II required for admission. (Formerly 220.191)	3.00	15	T 3:00-5:20PM
AS.220.200	02	H		Introduction to Fiction <i>Davies, Tristan</i>	3.00	15	Th 3:00-5:20PM
AS.220.200	03	H		Introduction to Fiction <i>Klam, Matthew</i>	3.00	15	Th 3:00-5:20PM
AS.220.201	01	H		Introduction to Poetry <i>Williamson, Greg W</i> Perm. Req'd. - Prereqs: AS.220.105 AND AS.220.106 - A study of the fundamentals and strategies of poetry writing. This course combines analysis and discussion of traditional models of poetry with workshop critiques of student poems and student conferences with the instructor.	3.00	15	W 1:30-3:50PM
AS.220.201	02	H		Introduction to Poetry <i>Scafidi, Steve</i>	3.00	15	M 1:30-3:50PM
AS.220.202	01	H	W	Introduction to Non-Fiction: Matters of Fact <i>Biddle, Wayne</i> A first course in nonfiction writing, emphasizing how facts can be woven into narrative forms to portray verifiable, rather than imagined, people and events. Students read and discuss model works, then write frequent papers to refine their own style. (Formerly 220.145)	3.00	15	W 1:30-3:50PM
AS.220.204	01	H	W	Introduction to Dramatic Writing: Film <i>Lapadula, Marc</i>	3.00	15	F 4:30-6:50PM

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AS.220.316	01	H	W	<p>An examination of the screenplay as a literary text and blue-print for production. Professional screenplays will be critically analyzed, with focus on character, dialogue, plot development, conflict, pacing, dramatic foreshadowing, the element of surprise, text and subtext, and visual story-telling. Students write one complete script.</p> <p>Seminar: Opinion Writing <i>Kane, Gregory</i></p>	3.00	15	W 7:00-9:20PM
AS.220.325	01	H		<p>The study of exposition and argument in literary prose, with exposure to journalistic practices. Instructor will assign topics on which students write essays subsequently discussed in class and critiqued for style, grammar, coherence, and effectiveness.</p> <p>Intermediate Fiction: Story and Plot <i>Blau, Jessica A</i></p> <p>The study of plot, with questions, both practical and theoretical, inevitably raised by the short story form. Readings in Chekhov, James, O'Connor, Cheever, Joyce, and Hemingway.</p>	3.00	15	W 3:00-5:20PM
AS.220.327	01	H		<p>Intermediate Fiction: Characters <i>Davies, Tristan</i></p> <p>A study of fictional persons in works by Fitzgerald, Joyce, W.C. Williams, and Rilke. Students write sketches and compose at least one complete story.</p>	3.00	15	T 3:00-5:20PM
AS.220.337	01	H	W	<p>Intermediate Dramatic Writing: Film <i>Lapadula, Marc</i></p> <p>Prereqs: 220.204; Perm. Req'd An intensive workshop focusing on methodology: enhancing original characterization, plot development, conflict, story, pacing, dramatic foreshadowing, the element of surprise, text and subtext, act structure and visual storytelling. Each student is expected to present sections of his/her "screenplay-in-progress" to the class for discussion. The screenplay Chinatown will be used as a basic text.</p>	3.00	15	F 1:30-3:50PM
AS.220.339	01	H	W	<p>Seminar: Science Stories <i>Grimm, David</i></p> <p>Prereq: 220.146 or 220.203 or permission of instructor -</p> <p>The course's model is the scientific press conference. Scientists from different fields talk about their research. Students interview scientists and write short articles. Emphasis is on identifying and structuring a story.</p>	3.00	15	F 4:00-6:20PM
AS.220.377	01	H		<p>Intermediate Poetry: Poetic Forms <i>Williamson, Greg W</i></p> <p>Perm. Req'd.Perm. Req'd.</p> <p>A consideration of a variety of poetic forms and conventions, analysis and discussion of characteristic approaches, with a balance of workshop of student poems. Admission requires completion of Introduction to Poetry.</p>	3.00	15	Th 1:30-3:50PM
AS.220.380	01	H		<p>Intermediate Fiction: The Scene <i>Blake, Glenn</i></p>	3.00	15	Th 3:00-5:20PM

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AS.220.382	01	H		<p>Emphasis in writing scenes-the building blocks of fiction-units of action, units of dialogue. Readings will include the stories of Chekhov, Cheever, Hemingway, and Carver.</p> <p>Intermediate Poetry: Narrative Strategies in Poetry Writing <i>Smith, David J</i></p> <p>Is there anything more elemental in human expression than the shape of a story? Before a poem is anything else, it is the hint, implication, outline, or raw matter of a story. Story-making is learned behavior and its alternative approaches are the makers of form and vision, kinds of poetry, communication that is worth re-experiencing, or not. In this course we consider how stories have been told and retold from the Anglo-Saxon poets to the Hopkins faculty poets. Students will write imitations, short responses to text readings, and a final paper on the role of narrative in the work of a poet chosen in coordination with the professor.</p>	3.00	15	W 2:00-4:20PM
AS.220.384	01	H	W	<p>Intermediate Nonfiction: I, Me, Mine: American Autobiography <i>Biddle, Wayne</i></p> <p>The class will read and discuss classic autobiographical texts by Benjamin Franklin, Frederick Douglass, Henry Thoreau, Henry Adams, Gertrude Stein, Malcolm X, and others. Students will write and workshop their own life stories of substantial length.</p>	3.00	15	T 1:30-3:50PM
AS.220.397	01	H		<p>Intermediate Poetry: The Lyric <i>Scafidi, Steve</i></p> <p>What is a lyric poem in the 21st Century? What causes such a thing? What does it sound like? What is it good for? Who writes them? We will. By reading lyric poems written over the last 500 years in English, and by writing our own original work we will find some answers to these questions. This class will have a special emphasis on Free Verse and the particular challenges and joys of such a poem. This workshop aims to generate new work and to cultivate skills necessary for a writer. Perm. Req'd</p>	3.00	15	F 1:30-3:50PM
AS.220.400	01	H		<p>Advanced Poetry Workshop <i>Smith, David J</i></p> <p>Perm. Req'd - Prereq: AS.200.201 - The capstone course in poetry writing. Consideration of various poetic models in discussion, some assigned writing, primarily workshop of student poems. Students will usually complete a "collection" of up to 15 poems. Completion of Introduction to Poetry required for admission. (Formerly 220.396)</p>	3.00	15	M 2:00-4:20PM

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AS.220.401	01	H		Advanced Fiction Workshop <i>McDermott, Alice</i> Perm. Req'd The capstone course in writing fiction, primarily devoted to workshop of student stories. Some assignments, some discussion of literary models, two or three completed student stories with revisions. Completion of Intermediate Fiction is required for admission. (Formerly 220.355)	3.00	15	M 1:30-3:50PM
AS.220.401	02	H		Advanced Fiction Workshop <i>Leithauser, Brad</i>	3.00	15	W 1:30-3:50PM
AS.220.412	01	H		Readings in Poetry: Eliot, Crane & Stevens <i>Irwin, John T</i> An examination of the poetry of Eliot, Crane and Stevens in the context of the modernist movement in the verbal and visual arts. Not a workshop course. Jr and Sr majors given preference.	3.00	15	W 3:00-6:00PM
AS.220.420	01	H		Readings in Contemporary Fiction: Coetzee, Delillo, Freudenberg, Johnson <i>Klam, Matthew</i> The central concern of this course is to read, study, think about, and discuss several novels and short story collections, paying special attention to the voice and structural techniques these authors have invented to create compelling works.	3.00	15	W 3:00-5:20PM
AS.220.423	01	H		Readings in Fiction: Castaways in Literature <i>Leithauser, Brad</i> Our primary text will be Defoe's Robinson Crusoe. We will read spin-offs of Robinson Crusoe (Muriel Spark's Robinson, J. M. Coetzee's Foe, Elizabeth Bishop's "Crusoe in England") as well as Golding's Lord of the Flies and Sylvia Townsend Warner's Mr. Fortune's Maggot. Selections from Homer, Swift, and Byron. We will conclude with Shakespeare's The Tempest. (Leithauser)	3.00	15	T 3:00-5:20PM
AS.300.351	01	H	W	Literature and Hasidism: The Tales of Nachman of Berslov <i>Stahl, Neta</i> This course explores the tales of Nachman of Berslov as a literary, cultural and theological phenomenon. We will trace the Kabbalistic and messianic elements in these tales and evaluate their place and role within the wider context of Hassidic literature.	3.00	35	Th 1:30-3:50PM

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Applied Mathematics & Statistics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.550.100	01	EQ		Introduction to Applied Mathematics and Statistics <i>Naiman, Daniel Q</i> A seminar-style series of lectures and assignments to acquaint the student with a range of intellectual and professional activities performed by applied mathematicians and statisticians. Department faculty and outside speakers present problems arising in applied mathematics and statistics.	1.00	30	T 12:00-12:50PM
EN.550.111	01	EQ		Statistical Analysis I <i>Torcaso, Fred</i> Prereq: Four years of high school mathematics. Students who may wish to undertake more than two semesters of probability and statistics should consider 550.420-430. First semester of a general survey of statistical methodology. Topics include descriptive statistics, probability models, random variables, expectation, sampling, and the central limit theorem, classical and robust estimation of location, confidence intervals, hypothesis testing, two-sample problems, introductory analysis of variance, and introductory nonparametric methods. Three lectures and a conference weekly. Some use of computing with the Minitab statistical package, but prior computing experience not required.	4.00	30	MWF 12:00-12:50PM; W 3:00-3:50PM
EN.550.111	02	EQ		Statistical Analysis I	4.00	30	MWF 12:00-12:50PM; W 4:30-5:20PM
EN.550.111	03	EQ		Statistical Analysis I	4.00	30	MWF 12:00-12:50PM; Th 10:30-11:20AM
EN.550.111	04	EQ		Statistical Analysis I	4.00	30	MWF 12:00-12:50PM; Th 12:00-12:50PM
EN.550.111	05	EQ		Statistical Analysis I	4.00	30	MWF 12:00-12:50PM; Th 1:30-2:20PM
EN.550.112	01	EQ		Statistical Analysis II <i>Fishkind, Donniell</i> Prereq: 550.111 or Credit for AP Statistics. Second semester of a general survey of statistical methodology. Topics include least squares, regression and analysis of variance, correlation, nonparametric methods, analysis of categorical data, contingency tables and chi-square tests, the likelihood concept, and Bayesian inference. Students who may wish to undertake more than two semesters of probability and statistics should strongly consider the 550.420-550.430 sequence.	4.00	25	MWF 1:30-2:20PM; Th 10:30-11:20AM
EN.550.112	02	EQ		Statistical Analysis II	4.00	25	MWF 1:30-2:20PM; Th 12:00-12:50PM
EN.550.112	03	EQ		Statistical Analysis II	4.00	25	MWF 1:30-2:20PM; Th 1:30-2:20PM
EN.550.112	04	EQ		Statistical Analysis II	4.00	25	MWF 1:30-2:20PM; Th 3:00-3:50PM
EN.550.113	01	EQ		Statistics Through Case Study <i>Athreya, Dwijavanti P</i> Prereq: Four years of highschool mathematics. A case-study based course treating basic statistical theory and methodology. All theoretical material will be presented in the context of timely real-world case studies. Topics covered will include basic probability, random variables and their distributions, the central limit theorem and normal approximation, sampling distributions, statistical inference, confidence intervals, and hypothesis testing.	4.50	16	MWF 11:00-11:50AM; Th 1:30-2:45PM

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EN.550.113	02	EQ		Statistics Through Case Study	4.50	16	MWF 11:00-11:50AM; Th 3:00-4:15PM
EN.550.113	03	EQ		Statistics Through Case Study	4.50	16	MWF 11:00-11:50AM; Th 4:30-5:45PM
EN.550.171	01	Q		Discrete Mathematics <i>Castello, Beryl</i> Prereq: Four years of high school mathematics. Introduction to the mathematics of finite systems. Logic; Boolean algebra; induction and recursion; sets, functions, relations, equivalence, and partially ordered sets; elementary combinatorics; modular arithmetic and the Euclidean algorithm; group theory; permutations and symmetry groups; graph theory. Selected applications. The concept of a proof and development of the ability to recognize and construct proofs are part of the course.	4.00	30	MWF 10:00-10:50AM; Th 9:00-9:50AM
EN.550.171	02	Q		Discrete Mathematics	4.00	30	MWF 10:00-10:50AM; Th 12:00-12:50PM
EN.550.171	03	Q		Discrete Mathematics	4.00	30	MWF 10:00-10:50AM; Th 10:30-11:20AM
EN.550.252	01	EQ		Math Models-Decision Making:Stochastic Models <i>Castello, Beryl</i> Prereq: One semester of calculus This course is an introduction to management science and the quantitative approach to decision making. Our focus will be on the formulation and analysis of stochastic models, where some problem data may be uncertain. The covered topics may include Project Scheduling, Decision Analysis, Time Series Forecasting, Inventory Models with Stationary or Nonstationary Demand, Queuing Models, Discrete-Event Simulation, and Quality Management. We emphasize model development and case studies, using spreadsheets and other computer software. The applications we study occur in variety of applications.	4.00	25	MWF 9:00-9:50AM; Th 1:30-2:20PM
EN.550.291	01	EQ		Linear Algebra & Differential Equations <i>Athreya, Dwijavanti P</i> Prereq: One year of calculus, computing experience. An introduction to the basic concepts of linear algebra, matrix theory, and differential equations that are used widely in modern engineering and science. Intended for engineering and science majors whose program does not permit taking both 110.201 and 110.302.	4.00	25	MW 3:00-4:15PM; T 1:30-2:20PM
EN.550.291	02	EQ		Linear Algebra & Differential Equations	4.00	25	MW 3:00-4:15PM; T 3:00-3:50PM
EN.550.310	01	EQ		Probability & Statistics for the Physical Sciences & Engineering <i>Jedynak, Bruno</i>	4.00	30	MWF 11:00-11:50AM; T 9:00-9:50AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: one year of calculus. Recommended corequisite: multivariable calculus. Students cannot receive credit for both 550.310 and 550.311. Students cannot receive credit for 550.310 after having received credit for 550.420 or 550.430. An introduction to probability and statistics at the calculus level, intended for engineering and science students planning to take only one course on the topics. Students are encouraged to consider 550.420-430 instead. Combinatorial probability, independence, conditional probability, random variables, expectation and moments, limit theory, estimation, confidence intervals, hypothesis testing, tests of means and variances, goodness-of-fit.			
EN.550.310	02	EQ		Probability & Statistics for the Physical Sciences & Engineering	4.00	30	MWF 11:00-11:50AM; T 3:00-3:50PM
EN.550.310	03	EQ		Probability & Statistics for the Physical Sciences & Engineering	4.00	30	MWF 11:00-11:50AM; T 4:30-5:20PM
EN.550.311	01	EQ		Probability and Statistics for the Biological Sciences and Engineering <i>Torcaso, Fred</i>	4.00	35	MWF 10:00-10:50AM; T 9:00-9:50AM
				Prereq: One year of calculus; Corequisite: 110.202 recommended. Students cannot receive credit for both 550.310 and 550.311. Students cannot receive credit for 550.311 after having received credit for 550.420 or 550.430. An introduction to probability and statistics at the calculus level, intended for students in the biological sciences planning to take only one course on the topics. The basic scope of this course is similar to 550.310, with an emphasis on examples and problems in the biological sciences. Students are encouraged to consider 550.420-430 instead. Combinatorial probability, independence, conditional probability, random variables, expectation and moments, limit theory, estimation, confidence intervals, hypothesis testing, tests of means and variances, and goodness-of-fit will be covered.			
EN.550.311	02	EQ		Probability and Statistics for the Biological Sciences and Engineering	4.00	35	MWF 10:00-10:50AM; T 3:00-3:50PM
EN.550.361	01	EQ		Intro to Optimization <i>Fishkind, Donniell</i>	4.00	45	MWF 10:00-10:50AM; Th 1:30-2:20PM
				Prereq: one year of calculus, linear algebra, computing experience. Appropriate for undergraduate and graduate students without the mathematical background required for 550.661. An introductory survey of optimization methods, supporting mathematical theory and concepts, and application to problems of planning, design, prediction, estimation, and control in engineering, management, and science. Study of varied optimization techniques including linear programming, network-problem methods, dynamic programming, integer programming, and nonlinear programming.			
EN.550.361	02	EQ		Intro to Optimization	4.00	45	MWF 10:00-10:50AM; Th 3:00-3:50PM
EN.550.385	01	EQ		Scientific Computing: Linear Algebra <i>Hur, Youngmi</i>	4.00	30	MWF 11:00-11:50AM; T 3:00-3:50PM

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Applied Mathematics & Statistics

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: Calculus III, and 550.291 or approved alternative (e.g., 110.201). A first course on computational linear algebra and applications. Topics include floating-point arithmetic, algorithms and convergence, Gaussian elimination for linear systems, matrix decompositions (LU, Cholesky, QR), iterative methods for systems (Jacobi, Gauss–Seidel), and approximation of eigenvalues (power method, QR-algorithm). Theoretical topics such as vector spaces, inner products, norms, linear operators, matrix norms, eigenvalues, and canonical forms of matrices (Jordan, Schur) are reviewed as needed. Matlab is used to solve all numerical exercises; no previous experience with computer programming is required.			
EN.550.391	01	EQ		Dynamical Systems	4.00	24	MWF 10:00-10:50AM; Th 12:00-12:50PM
				<i>Eyink, Gregory</i> Prereq: Multivariable calculus, linear algebra, computing experience. Mathematical concepts and methods for describing and analyzing linear and nonlinear systems that evolve over time. Topics include boundedness, stability of fixed points and attractors, feedback, optimality, Liapounov functions, bifurcation, chaos, and catastrophes. Examples drawn from population growth, economic behavior, physical and engineering systems. The main mathematical tools are linear algebra and basic differential equations.			
EN.550.413	01	EQ		Applied Statistics and Data Analysis	4.00	40	MW 3:00-4:15PM; F 1:30-2:20PM
				<i>Naiman, Daniel Q</i> Prerequisites: EN.550.112 or EN.550.310 or EN.550.311 or EN.550.420 - An introduction to basic concepts, techniques, and major computer software packages in applied statistics and data analysis. Topics include numerical descriptive statistics, observations and variables, sampling distributions, statistical inference, linear regression, multiple regression, design of experiments, nonparametric methods, and sample surveys. Real-life data sets are used in lectures and computer assignments. Intensive use of statistical packages such as S+ to analyze data.			
EN.550.420	01	EQ		Intro to Probability	4.00	25	MWF 1:30-2:20PM; Th 10:30-11:20AM
				<i>Wierman, John Charles</i> Prereq: one year of calculus. Recommended corequisite: multivariable calculus. Probability and its applications, at the calculus level. Emphasis on techniques of application rather than on rigorous mathematical demonstration. Probability, combinatorial probability, random variables, distribution functions, important probability distributions, independence, conditional probability, moments, covariance and correlation, limit theorems. Students initiating graduate work in probability or statistics should enroll in 550.620. Students can use any of the 6th, 7th or 8th editions of the textbook.			
EN.550.420	02	EQ		Intro to Probability	4.00	25	MWF 1:30-2:20PM; Th 12:00-12:50PM
EN.550.420	03	EQ		Intro to Probability	4.00	25	MWF 1:30-2:20PM; Th 1:30-2:20PM

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EN.550.420	04	EQ		Intro to Probability	4.00	25	MWF 1:30-2:20PM; Th 3:00-3:50PM
EN.550.427	01	Q		Stochastic Processes and Applications to Finance <i>Athreya, Dwijavanti P</i> A development of stochastic processes with substantial emphasis on the processes, concepts, and methods useful in mathematical finance. Relevant concepts from probability theory, particularly conditional probability and conditional expectation, will be briefly reviewed. Important concepts in stochastic processes will be introduced in the simpler setting of discrete-time processes, including random walks, Markov chains, and discrete-time martingales, then used to motivate more advanced material. Most of the course will concentrate on continuous-time stochastic processes, particularly martingales, Brownian motion, diffusions, and basic tools of stochastic calculus. Examples will focus on applications in finance, economics, business, and actuarial science. Students may not receive credit for both 550.427 and 550.426.	4.00	50	MW 1:30-2:45PM; Th 12:00-12:50PM
EN.550.433	01	EQ		Monte Carlo Methods <i>Staff</i> Prereq: 550.430 The objective of the course is to survey essential simulation techniques for popular stochastic models. The stochastic models may include classical time-series models, Markov chains and diffusion models. The basic simulation techniques covered will be useful in sample-generation of random variables, vectors and stochastic processes, and as advanced techniques, importance sampling, particle filtering and Bayesian computation may be discussed.	4.00	60	MW 4:30-5:45PM; T 3:00-3:50PM
EN.550.436	01	EQ		Data Mining <i>Jedynak, Bruno</i> Prereq: 550.310 or equivalent. Recommended prereq: 550.413. Data mining is a relatively new term used in the academic and business world, often associated with the development and quantitative analysis of very large databases. Its definition covers a wide spectrum of analytic and information technology topics, such as machine learning, artificial intelligence, statistical modeling, and efficient database development. This course will review these broad topics, and cover specific analytic and modeling techniques such as advanced data visualization, decision trees, neural networks, nearest neighbor, clustering, logistic regression, and association rules. Although some of the mathematics underlying these techniques will be discussed, our focus will be on the application of the techniques to real data and the interpretation of results. Because use of the computer is extremely important when "mining" large amounts of data, we will make substantial use of data mining software tools to learn the techniques and analyze datasets.	4.00	24	MW 1:30-2:45PM; Th 10:30-11:20AM
EN.550.444	01	EQ		Introduction to Financial Derivatives	4.00	60	MW 3:00-4:15PM; F 3:00-3:50PM

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				<i>Audley, David</i> Prereq: 110.302 and 550.420. This course will develop the mathematical concepts and techniques for modeling cash instruments and their hybrids and derivatives.			
EN.550.446	01	EQ		Risk Measurement/Management in Financial Markets <i>Audley, David</i> Prereq: 550.444 This course applies advanced mathematical techniques to the measurement, analysis, and management of risk. The focus is on financial risk. Sources of risk for financial instruments (e.g., market risk, interest rate risk, credit risk) are analyzed; models for these risk factors are studied and the limitation, shortcomings and compensatory techniques are addressed.	4.00	40	MW 12:00-1:15PM; F 12:00-12:50PM
EN.550.450	01	EQ		Computational Molecular Medicine <i>Geman, Donald J</i> Biomedical research has been transformed by the development of new technologies for sequencing genomes and measuring RNA and protein expression levels. Due to the massive number of interacting components, the traditional approach, which is experimental and component-by-component, is no longer adequate. In contrast, statistical learning, modeling and inference have emerged as core methodologies for analyzing these data and uncovering the relationships between molecules, networks and disease, where knowledge extraction is formulated as a problem in high-dimensional pattern recognition. We will cover selected aspects of this methodology (e.g., measuring associations, testing multiple hypotheses, learning predictors and network models, and stochastic simulation) and illustrate how it enhances our ability to discover molecular disease networks, detect disease, predict clinical outcomes, and characterize disease progression. Prerequisites: 550.420 and 550.310/550.311/550.430	4.00	25	MW 4:30-5:45PM; F 1:30-2:20PM
EN.550.461	01	EQ		Optimization in Finance <i>Torcaso, Fred</i> A survey of many of the more important optimization methods and tools that are found to be useful in financial applications. Prerequisites: 550.442 or 550.444	4.00	45	MWF 9:00-9:50AM; Th 9:00-9:50AM
EN.550.463	01	EQ		Network Models in Operations Research <i>Castello, Beryl</i> Prerequisites: 550.361 or 550.661. In-depth mathematical study of network flow models in operations research, with emphasis on combinatorial approaches for solving them. Introduction to techniques for constructing efficient algorithms, and to some related data structures, used in solving shortest-path, maximum-volume, flow, and minimum-cost flow problems. Emphasis on linear models and flows, with brief discussion of non-linear models and network design.	4.00	20	MWF 12:00-12:50PM; T 3:00-3:50PM
EN.550.463	02	EQ		Network Models in Operations Research	4.00	20	MWF 12:00-12:50PM; T 4:30-5:20PM

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EN.550.471	01	Q		Combinatorial Analysis <i>Scheinerman, Edward</i> Prereq: Calculus II and (550.291 or 110.201). Counting techniques: generating functions, recurrence relations, Polya's theorem. Combinatorial designs: Latin squares, finite geometries, balanced incomplete block designs. Emphasis on problem solving.	4.00	20	MWF 12:00-12:50PM; T 12:00- 12:50PM
EN.550.480	01	EQ		Shape and Differential Geometry <i>Younes, Elie L</i> The purpose of this class is to provide an elementary knowledge of the differential geometry of curves and surfaces, and to place this in relation with the description and characterization of 2D and 3D shapes. Intrinsic local and semi-local descriptors, like the curvature or the second fundamental form will be introduced, with an emphasis on the invariance of these features with respect to rotations, translations, etc. Extension of this point of view to other class of linear transformations will be given, as well as other types of shape descriptors, like moments or medial axes. Prerequisites: Calculus III and linear algebra	3.00	30	MW 3:00-4:15PM

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EN.520.315	01	E		Introduction to Information Processing of Sensory Signals <i>Hermansky, Hynek</i> Prerequisites: 520.214 (or 580.222) or consent of the instructor. An introductory course to basic concepts of information processing of human communication signals (sounds, images,..) in living organisms and by machine. Cross-listed with Biomedical Engineering	3.00	30	TTh 10:30-11:45AM
EN.520.445	01	E		Audio Signal Processing <i>Elhilali, Mounya</i> Prereq: knowledge of Fourier analysis and signal processing or permission of instructors. This course gives a foundation in current audio and speech technologies, and covers techniques for sound processing by processing and pattern recognition, acoustics, auditory perception, speech production and synthesis, speech estimation. The course will explore applications of speech and audio processing in human computer interfaces such as speech recognition, speaker identification, coding schemes (e.g. MP3), music analysis, noise reduction. Cross-listed with BME	3.00	40	TTh 10:30-11:45AM
EN.550.450	01	EQ		Computational Molecular Medicine <i>Geman, Donald J</i> Biomedical research has been transformed by the development of new technologies for sequencing genomes and measuring RNA and protein expression levels. Due to the massive number of interacting components, the traditional approach, which is experimental and component-by-component, is no longer adequate. In contrast, statistical learning, modeling and inference have emerged as core methodologies for analyzing these data and uncovering the relationships between molecules, networks and disease, where knowledge extraction is formulated as a problem in high-dimensional pattern recognition. We will cover selected aspects of this methodology (e.g., measuring associations, testing multiple hypotheses, learning predictors and network models, and stochastic simulation) and illustrate how it enhances our ability to discover molecular disease networks, detect disease, predict clinical outcomes, and characterize disease progression. Prerequisites: 550.420 and 550.310/550.311/550.430	4.00	25	MW 4:30-5:45PM; F 1:30-2:20PM
EN.580.111	01	EN		BME Modeling & Design <i>Haase, Eileen B</i>	2.00	5	Th 12:00-12:50PM; Th 8:30-10:20AM

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				BME Freshmen only - Working in teams with upperclassmen this course (1) introduces biomedical engineering freshmen to an orderly method for analyzing and modeling biological systems and (2) introduces engineering principles to solve design problems that are biological, physiological, and/or medical. Freshmen are expected to use the informational content being taught in calculus, physics and chemistry and to apply this knowledge to the solution of practical problems encountered in biomedical engineering. In-person registration only and instructor's permission required (signed add/drop form) as of 08/11/2011			
EN.580.111	02	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 8:30-10:20AM
EN.580.111	03	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 8:30-10:20AM
EN.580.111	04	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 8:30-10:20AM
EN.580.111	05	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 1:00-2:50PM
EN.580.111	06	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 1:00-2:50PM
EN.580.111	07	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 1:00-2:50PM
EN.580.111	08	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 1:00-2:50PM
EN.580.111	09	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 3:00-4:50PM
EN.580.111	10	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 3:00-4:50PM
EN.580.111	11	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 3:00-4:50PM
EN.580.111	12	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 3:00-4:50PM
EN.580.111	13	EN		BME Modeling & Design	2.00	5	Th 5:00-6:50PM; Th 12:00-12:50PM
EN.580.111	14	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 5:00-6:50PM
EN.580.111	15	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 5:00-6:50PM
EN.580.111	16	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; Th 5:00-6:50PM
EN.580.111	17	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 12:00-1:50PM
EN.580.111	18	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 12:00-1:50PM
EN.580.111	19	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 12:00-1:50PM
EN.580.111	20	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 12:00-1:50PM
EN.580.111	21	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 2:00-3:50PM
EN.580.111	22	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 2:00-3:50PM
EN.580.111	23	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 2:00-3:50PM
EN.580.111	24	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 2:00-3:50PM
EN.580.111	25	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 4:00-5:50PM
EN.580.111	26	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 4:00-5:50PM
EN.580.111	27	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 4:00-5:50PM
EN.580.111	28	EN		BME Modeling & Design	2.00	5	Th 12:00-12:50PM; F 4:00-5:50PM
EN.580.211	01	EN		BME Design Group <i>Allen, Robert H</i> Sophomore-level version of 580.311-312 or Perm. Req'd	3.00	20	TTh 4:30-5:45PM
EN.580.221	01	N		Molecules & Cells <i>Haase, Eileen B</i>	4.00	35	MWF 11:00-11:50AM; Th 10:30-11:20AM

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				Prereq: 030.101, 030.104 An introduction to modern molecular and cellular biology in the context of potential biomedical engineering applications. Topics covered: reactions between molecules, including receptor-ligand and antigen-antibody specificity, protein structure, enzyme catalysis, genetic information, protein processing and secretion, cell physiology and cell functions. Advanced quantitative treatment including multi-state kinetics, Monte Carlo simulations of biochemical reactions, and transport phenomena.			
EN.580.221	02	N		Molecules & Cells	4.00	35	MWF 11:00-11:50AM; Th 12:00-12:50PM
EN.580.221	03	N		Molecules & Cells	4.00	35	MWF 11:00-11:50AM; Th 1:30-2:20PM
EN.580.221	04	N		Molecules & Cells	4.00	35	MWF 11:00-11:50AM; Th 3:00-3:50PM
EN.580.311	01	EN		BME Design Group <i>Allen, Robert H</i>	3.00	30	TTh 4:30-5:45PM
				Perm. Req'd. A two-semester course sequence where juniors and seniors work with a team leader and a group of BME freshmen and sophomores, to solve open-ended problems in biomedical engineering. Upperclassmen are expected to apply their general knowledge and experience, and their knowledge in their concentration area, to teach lower classmen and to generate the solution to practical problems encountered in biomedical engineering.			
EN.580.321	01	EN		Statistical Mechanics and Thermodynamics <i>Beer, Michael</i>	4.00	35	MWF 11:00-11:50AM; T 11:00-11:50AM
				Prereqs: Calculus I&II, Freshman/Sophomore Chemistry and Physics Basic principles of statistical physics and thermodynamics with application to biological systems. Topics include fundamental principles of thermodynamics, chemical equilibrium and thermodynamics of reactions in solutions, and elementary statistical mechanics. Prerequisites: 110.108-109, 030.101-102, 171.101-102.			
EN.580.321	02	EN		Statistical Mechanics and Thermodynamics	4.00	35	MWF 11:00-11:50AM; T 12:00-12:50PM
EN.580.321	03	EN		Statistical Mechanics and Thermodynamics	4.00	35	MWF 11:00-11:50AM; T 1:30-2:20PM
EN.580.321	04	EN		Statistical Mechanics and Thermodynamics	4.00	35	MWF 11:00-11:50AM; T 3:00-3:50PM
EN.580.410	01			BME Teaching Practicum <i>Haase, Eileen B</i>	2.00	20	TBA
				Permission required. Senior biomedical engineering students will assist the BME Modeling & Design course instructor in managing the laboratory component of the class.			
EN.580.411	01	E		BME Design Group <i>Allen, Robert H</i>	3.00	30	TTh 4:30-5:45PM
				Perm. Req'd. Senior-level version of 580.311-312.			
EN.580.413	01	E		Design-Team, Team Leader <i>Allen, Robert H</i>	4.00	15	TTh 4:30-5:45PM

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				Perm. Req'd. A two-semester sequence where leaders direct a team of undergraduate biomedical engineering students in a series of design problems. Prior design team experience and permission of course director required.			
EN.580.420	01	EN		Build-a-Genome <i>Bader, Joel S</i> Must understand fundamentals of DNA structure, DNA electrophoresis and analysis, Polymerase Chain Reaction (PCR) and must be either a) Experienced with molecular biology lab work or b) Adept at programming with a biological twist. In this combination lecture/laboratory "Synthetic Biology" course students will learn how to make DNA building blocks used in an int'l. project to build the world's first synthetic eukaryotic genome, <i>Saccharomyces cerevisiae</i> v. 2.0. Please study the wiki www.syntheticyeast.org for more details about the project. Following a biotechnology boot-camp, students will have 24/7 access to computational and wet-lab resources and will be expected to spend 15-20 hours per week on this course. Advanced students will be expected to contribute to the computational and biotech infrastructure. Successful completion of this course provides 3 credit hours toward the supervised research requirement for Molecular and Cellular Biology majors, or 2 credit hours toward the upper level elective requirement for Biology or Molecular and Cellular Biology majors.	4.00	8	MWF 5:00-6:20PM
EN.580.421	01	EN		Systems Bioengineering I <i>Trayanova, Natalia</i> Prereq: 580.221 & 580.222 Limit 35 per section A quantitative, model-oriented investigation of the cardiovascular system. Topics are organized in three segments. (1) Molecular/cellular physiology, including electrical signaling and muscle contraction. (2) Systems cardiovascular physiology, emphasizing circuit-diagram analysis of hemodynamics. (3) Cardio-vascular horizons and challenges for biomedical engineers, including heart failure and its investigation/treatment by computer simulation, by gene-array analysis, by stem-cell technology, and by mechanical devices (left-ventricular assist and total-heart replacement).	4.00	35	MW 3:00-4:15PM; F 11:00-11:50AM
EN.580.421	02	EN		Systems Bioengineering I	4.00	35	MW 3:00-4:15PM; F 12:00-12:50PM
EN.580.421	03	EN		Systems Bioengineering I	4.00	35	MW 3:00-4:15PM; F 1:30-2:20PM
EN.580.421	04	EN		Systems Bioengineering I	4.00	35	MW 3:00-4:15PM; F 1:30-2:20PM
EN.580.423	01	N		Systems Bioengineering Lab I <i>Haase, Eileen B</i> Coreq: 580.421 Priority to Junior BME majors A two-semester laboratory course in which various physiological preparations are used as examples of problems of applying technology in biological systems. The emphasis in this course is on the design of experimental measurements and on physical models of biological systems.	2.00	36	T 9:00AM-12:50PM; F 9:00-9:50AM
EN.580.423	02	N		Systems Bioengineering Lab I	2.00	36	T 1:30-5:20PM; F 9:00-9:50AM
EN.580.423	03	N		Systems Bioengineering Lab I	2.00	36	Th 4:30-5:20PM; Th 9:00AM-12:50PM

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EN.580.423	04	N		Systems Bioengineering Lab I	2.00	36	Th 4:30-5:20PM; Th 1:30-4:20PM
EN.580.429	01	EN		Systems Bioengineering III <i>Bader, Joel S</i> Prereq: 580.221 & 580.222 or Perm. Req'd Computational and theoretical systems biology at the cellular and molecular level. Topics include organizational patterns of biological networks; analysis of metabolic networks, gene regulatory networks, and signal transduction networks; inference of pathway structure; and behavior of cellular and molecular circuits.	4.00	35	TTh 10:30-11:45AM; F 12:00-12:50PM
EN.580.429	02	EN		Systems Bioengineering III	4.00	35	TTh 10:30-11:45AM; F 1:30-2:20PM
EN.580.429	03	EN		Systems Bioengineering III	4.00	35	TTh 10:30-11:45AM; F 1:30-2:20PM
EN.580.429	04	EN		Systems Bioengineering III	4.00	35	TTh 10:30-11:45AM; F 3:00-3:50PM
EN.580.439	01	EN		Models of the Neuron <i>Young, Eric D</i> Prereq: 110.301, 580.421-422 or equivalent Single-neuron modeling, emphasizing the use of computational models as links between the properties of neurons at several levels of detail. Topics include thermodynamics of ion flow in aqueous environments, biology and biophysics of ion channels, gating, nonlinear dynamics as a way of studying the collective properties of channels in a membrane, synaptic transmission, integration of electrical activity in multi-compartment dendritic tree models, and properties of neural networks. Students will study the properties of computational models of neurons; graduate students will develop a neuron model using data from the literature. Meets with 580.639	4.00	15	MWF 9:00-9:50AM; T 9:00-9:50AM
EN.580.441	01	E		Cellular Engineering <i>Green, Jordan</i> Prereqs: 580.221 or 020.305 and 020.306 (or equivalent) and 030.205 This course focuses on principles and applications in cell engineering. Class lectures include an overview of molecular biology fundamentals, protein/ligand binding, receptor/ligand trafficking, cell-cell interactions, cell-matrix interactions, and cell adhesion and migration at both theoretical and experimental levels. Lectures will cover the effects of physical (e.g. shear stress, strain), chemical (e.g. cytokines, growth factors) and electrical stimuli on cell function, emphasizing topics on gene regulation and signal transduction processes. Furthermore, topics in metabolic engineering, enzyme evolution, polymeric biomaterials, and drug and gene delivery will be discussed. This course is intended as Part 1 of a two-semester sequence recommended for students in the Cell and Tissue Engineering focus area. Meets with 580.641	3.00	40	TTh 9:00-10:15AM
EN.580.451	01	EN		Cell & Tissue Eng Lab <i>Haase, Eileen B</i>	2.00	8	TF 12:00-1:50PM

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Biomedical Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Senior and Graduate students only; others Perm. Req'd. Lab Fee: \$100 Cell and tissue engineering is a field that relies heavily on experimental techniques. This laboratory course will consist of three six experiments that will provide students with valuable hands-on experience in cell and tissue engineering. Students will learn basic cell culture procedures and specialized techniques related to faculty expertise in cell engineering, microfluidics, gene therapy, microfabrication and cell encapsulation. Experiments include the basics of cell culture techniques, gene transfection and metabolic engineering, basics of cell-substrate interactions I, cell-substrate interactions II, and cell encapsulation and gel contraction. Co-listed with 530.451			
EN.580.451	02	EN		Cell & Tissue Eng Lab	2.00	8	TF 2:00-3:50PM
EN.580.471	01	EN		Princ BME Instrumentation <i>Thakor, Nitish V</i> Prereq: 520.345 Lab Fee: \$150 Students satisfying the design requirement must also register for 580.571 This core design course will cover lectures and hands-on labs. The material covered will include fundamentals of biomedical sensors and instrumentation, FDA regulations, designing with electronics, biopotentials and ECG amplifier design, recording from heart, muscle, brain, etc., diagnostic and therapeutic devices (including pacemakers and defibrillators), applications in prosthetics and rehabilitation, and safety. The course includes extensive laboratory work involving circuits, electronics, sensor design and interface, and building complete biomedical instrumentation. The students will also carry out design challenge projects, individually or in teams (examples include "smart cane for blind," "computer interface for quadriplegic").	4.00	16	Th 4:00-5:50PM; F 9:00AM-12:50PM
EN.580.471	02	EN		Princ BME Instrumentation	4.00	16	Th 4:00-5:50PM; F 1:00-4:50PM
EN.580.472	01	E		Topics - Med Imaging Sys <i>Prince, Jerry Ladd</i> Prereq: 520-214 An introduction to the physics, instrumentation, and signal processing methods used in general radiography, X-ray computed tomography, ultrasound imaging, magnetic resonance imaging, and nuclear medicine. The primary focus is on the methods required to reconstruct images within each modality, with emphasis on the resolution, contrast, and signal-to-noise ratio of the resulting images. (Note: Beginning Fall '08 this course will permanently move to the fall semester.) Co-listed as 520.432	3.00	30	MWF 10:00-10:50AM
EN.580.476	01	E		Magnetic Resonance in Medicine <i>Edelstein, William</i>	3.00	20	TTh 9:00-10:15AM

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				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. Prerequisite: 580.222 Systems and Controls or 520.214 Signals and Systems. Co-listed with 580.673 and 520.673			
EN.580.492	01	EN		Build-a-Genome Mentor <i>Bader, Joel S</i> Perm. Req'd. In addition to producing and sequencing DNA segments like regular B-a-G students, mentors will help prepare and distribute reagents, and maintain a Moodle site to track student reagent use and productivity. Mentors will also be expected to mentor specific students who are learning new techniques for the first time, contribute to the computational and biotech infrastructure associated with Build-a-Genome, and pursue at least one independent research project. Successful completion of this course provides 3 credit hours toward the supervised research requirement for Molecular and Cellular Biology majors.	4.00	8	MWF 5:00-6:20PM
EN.580.495	01	EN		Microfabrication Lab <i>Andreou, Andreas</i> Seniors only Perm. Req'd. This laboratory course introduces the principles used in the construction of microelectronic devices, sensors, and micromechanical structures. Students will work in the laboratory on the fabrication and testing of a device. Accompanying lecture material covers basic processing steps, design and analysis CAD tools, and national foundry services. Co-listed with 530.495 and 520.495	4.00	4	W 1:30-2:20PM; Th 1:00-4:50PM
EN.580.495	02	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; Th 5:00-8:50PM
EN.580.495	03	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; F 8:00-11:50AM
EN.580.495	04	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; F 1:00-4:50PM
EN.580.495	05	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; Th 8:00-11:50AM

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EN.660.105	01	S	W	Introduction to Business <i>Aronhime, Lawrence</i> This course is designed as an introduction to the terms, concepts, and values of business and management. The course comprises three broad categories: the economic, financial, and corporate context of business activities; the organization and management of business enterprises; and, the marketing and production of goods and services. Topic specific readings, short case studies and financial exercises all focus on the bases for managerial decisions as well as the long and short-term implications of those decisions in a global environment. No audits.	4.00	30	MWF 12:00-12:50PM; T 1:30-2:20PM
EN.660.105	02	S	W	Introduction to Business	4.00	30	MWF 12:00-12:50PM; T 1:30-2:20PM
EN.660.105	03	S	W	Introduction to Business	4.00	30	MWF 12:00-12:50PM; T 3:00-3:50PM
EN.660.105	04	S	W	Introduction to Business	4.00	30	MWF 12:00-12:50PM; W 3:00-3:50PM
EN.660.105	05	S	W	Introduction to Business	4.00	30	MWF 12:00-12:50PM; Th 1:30-2:20PM
EN.660.105	06	S	W	Introduction to Business	4.00	30	MWF 12:00-12:50PM; Th 3:00-3:50PM
EN.660.203	01			Financial Accounting <i>Aronhime, Lawrence</i> The course in Financial Accounting is designed for anyone who could be called upon to analyze and/or communicate financial results and/or make effective financial decisions in a for-profit business setting. No prior accounting knowledge or skill is required for successful completion of this course. Because accounting is described as the language of business, this course emphasizes the vocabulary, methods, and processes by which all business transactions are communicated. The accounting cycle, basic business transactions, internal controls, and preparation and understanding of financial statements including balance sheets, statements of income and cash flows are covered. No audits.	3.00	35	MWF 10:00-10:50AM
EN.660.203	02			Financial Accounting <i>Leps, Annette</i>	3.00	35	MW 12:00-1:15PM
EN.660.203	03			Financial Accounting <i>Aronhime, Lawrence</i>	3.00	35	TTh 10:30-11:45AM
EN.660.203	04			Financial Accounting <i>Powell, Jack L</i>	3.00		M 6:15-9:00PM
EN.660.250	01			Principles of Marketing <i>Kendrick, Leslie</i>	3.00	35	MW 12:00-1:15PM

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				This course explores the role of marketing in society and within the organization. It examines the process of developing, pricing, promoting and distributing products to consumer and business markets and shows how marketing managers use the elements of the marketing mix to gain a competitive advantage. Through interactive, application-oriented exercises, case videotapes, a guest speaker (local marketer), and a group project, students will have ample opportunity to observe key marketing concepts in action. The group project requires each team to research the marketing plan for an existing product of its choice. Teams will analyze what is currently being done by the organization, choose one of the strategic growth alternatives studied, and recommend why this alternative should be adopted. The recommendations will include how the current marketing plan will need to be modified in order to implement this strategy and will be presented to the instructor in written form and presented to the class. No audits.			
EN.660.250	02			Principles of Marketing	3.00	35	MW 1:30-2:45PM
EN.660.250	03			Principles of Marketing <i>DeVries, Marci</i>	3.00	35	TTh 12:00-1:15PM
EN.660.250	04			Principles of Marketing <i>Pennington, Josianne W.</i>	3.00	35	TTh 12:00-1:15PM
EN.660.250	05			Principles of Marketing <i>Williams, Cheryl G</i>	3.00	35	W 1:30-3:50PM
EN.660.308	01	S		Business Law I <i>Fisher, David</i>	3.00	35	M 6:15-9:00PM
				This course is designed to provide students an introduction to legal reasoning and analysis. Content distinguishes forms of business, civil versus criminal law, and agency principles; intellectual property concepts, contract Law, the UCC (Uniform Commercial Code) and consumer protection are explored and discussed in the context of assigned legal cases which are intended to develop a student's ability to analyze and apply law. Pre/co-requisite: 660.105 Intro to Business. No Audits			
EN.660.308	02	S		Business Law I <i>Staff</i>	3.00	35	T 6:15-9:00PM

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EN.660.310	01	H		Case Studies in Business Ethics <i>Franceschini, Mark</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. Prerequisite: 660.105 Introduction to Business. Not open to students who have taken 660.231 Case Studies in Business Ethics. No audits.	3.00	30	M 6:15-9:00PM
EN.660.311	01	S		Law and the Internet <i>Sandhaus, Douglas</i> Sometimes called "Cyber law," this course uses the case study method to examine some of the most significant and compelling legal aspects, issues, and concerns involved with operating a business enterprise in an Internet environment. Some of the issues likely to be covered include jurisdiction, resolution of online disputes, trademarks, copyright, licenses, privacy, defamation, obscenity, the application of traditional concepts of tort liability to an Internet context, computer crime, information security, taxation, international considerations, and an analysis of other recent litigation and/or statutes. Prerequisite: 660.205/660.308 Business Law I. Note: not open to students who have taken 660.306 Law and the Internet. No audits.	3.00	30	T 6:15-9:00PM
EN.660.332	01	S	W	Leadership Theory <i>Smedick, William D</i> Students will be introduced to the history of Leadership Theory from the "Great Man" theory of born leaders to Transformational Leadership theory of non-positional learned leadership. Transformational Leadership theory postulates that leadership can be learned and enhanced. The course will explore the knowledge base and skills necessary to be an effective leader in a variety of settings. Students will assess their personal leadership qualities and develop a plan to enhance their leadership potential. Recommended prerequisite: 660.105 Introduction to Business or 660.220/340 Principles of Management. No audits.	3.00	30	MWF 12:00-12:50PM
EN.660.333	01		W	Leading Change <i>Rice, Eric</i>	3.00	24	TTh 12:00-1:15PM

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				In this course, we will use a combination of presentation, discussion, experiential learning, research and self-reflection to investigate issues surrounding leadership and change in communities and the economy. While considering both for-profit and non-profit entities, we will pursue topics including understanding and using theories of change; finding competitive advantage and creating strategic plans; making decisions, even in uncertain times; valuing differences; employing leadership styles; giving and receiving feedback; understanding employee relations; creating performance measures; and developing organizational cultures; and using the dynamics of influence. Not open to students who have taken 660.235 Leading Change. Recommended prerequisite: 660.105 Introduction to Business. No audits.			
EN.660.335	01			Negotiation/Conflict <i>Rice, Eric</i>	3.00	24	T 3:00-5:45PM
				The focus of this class is the nature and practice of conflict resolution and negotiation within and between organizations. The primary format for learning in this class will be structured experimental exercises designed to expose students to different aspects of negotiation and to build tangible skills through interpersonal exchange. While some class time will be devoted to presentations on theories and approaches, the class method primarily relies on feedback from fellow classmates on their observations of negotiation situations and on personal reflections by students after each structured experience. Topics include conflict style, salary, negotiation, and group conflict. Recommended prerequisite: 660.105 Introduction to Business, or another course in the Entrepreneurship and Management Program or in the social sciences. No audits.			
EN.660.337	01			Dead Leaders Society: Historical Perspectives on Leadership <i>Crane, Donna L</i>	3.00	30	TTTh 3:00-4:15PM
				Students will analyze how the political, economic, cultural and social contexts of prior centuries shaped the styles and effectiveness of its leadership. Some giants of history like Cleopatra, Eleanor of Aquitaine, King Richard the Lionhearted, Elizabeth I, Winston Churchill and Abraham Lincoln will be analyzed for their contributions to their own era's as well as modern concepts of leadership. In addition, lesser-known leaders such as Katherine Swynford, Mary Anning and Elizabeth Philpot, Llywelyn ab Gruffydd and Simon de Montfort will be analyzed for their contributions to modern leadership behaviors, styles and effectiveness. Prerequisite: 660.332 Leadership Theory or 660.331 Leadership in Teams. No audits.			
EN.660.340	01			Principles of Management <i>Reiter, Joshua</i>	3.00	35	M 1:30-4:15PM

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EN.660.351	01	S		<p>This course introduces the student to the management process. The course takes an integrated approach to management by examining the role of the manager from a traditional and contemporary perspective while applying decision-making and critical-thinking skills to the challenges facing managers in today's globally diverse environment. The course examines the techniques for controlling, planning, organizing resources and leading the workforce. Not open to students who have taken 660.220 Principles of Management. Prerequisite: 660.105 Introduction to Business. No audits.</p> <p>Product and Brand Marketing <i>Crane, Donna L</i></p> <p>Consumers love those little bits of crunchy orange goodness called Cheetos®. But when Frito-Lay decided that consumers might also like Cheetos®-flavored lip balm, they reacted with a hailstorm of derision. This may be proof that our free market economy is just a rudderless, if hilarious, contraption. More likely, Cheetos® Lip Balm was an example of the challenges marketers face in product and brand management. This course is a conceptual and practical exploration of how marketers deliver products and build brands that translate into competitive advantage for their companies. Among the critical concepts typically addressed in the course are developing and positioning a brand, assembling the marketing mix media into a whole, establishing price, creating packaging, and tracking the customer experience. The course uses readings, lecture, exercises, cases and examples to explore these concepts. Prerequisite: 660.250 Principles of Marketing. No audits.</p>	3.00	30	TTh 1:30-2:45PM
EN.660.355	01			<p>Sports Marketing <i>Kendrick, Leslie</i></p> <p>This course will allow students to apply marketing principles and concepts to the sports marketing environment while gaining an understanding of how event sponsorships, endorsements, licensing and naming rights are used to achieve business objectives. Through case studies and a group project, students will be exposed to a broad range of sports entities including professional sports teams, governing organizations and sports media. Prerequisite: 660.250 Principles of Marketing.</p>	3.00	35	TTh 12:00-1:15PM

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EN.660.357	01			Copywriting and Creative Strategy <i>Quesenberry, Keith</i> Uncover the process of creative thinking for innovation and conceiving "big ideas" in marketing. Students will be exposed to creative theory and practice as they select a consumer product and determine strategic market positioning, target demographics, media vehicles and creative guidelines. Then students will learn the craft of advertising copywriting for print, broadcast and digital media as they develop finished creative executions for the chosen organization that all build to a complete integrated marketing campaign. Prerequisite: 660.250 Principles of Marketing. Co-listed with 661.357. No audits.	3.00	12	TTh 12:00-1:15PM
EN.660.358	01			International Marketing <i>Kendrick, Leslie</i> This course covers product, pricing, promotion, distribution, market research, organization and implementation and control policies relating to international marketing. It also explores the economic, cultural, political and legal aspects of international marketing. Through interactive and application-oriented assignments and cases, students will gain hands-on experience in analyzing and developing marketing strategies for organizations that market both consumer and business products/services internationally. A group project will involve the development of an international marketing plan for a specific product. One or more local international marketers will be invited to speak to the class. Prerequisite: 660.250 Principles of Marketing. No audits.	3.00	35	TTh 1:30-2:45PM
EN.660.404	01	S		Business Law II <i>Fisher, David</i> Building on the material from Business Law I, topics examined include entrepreneurship, business entities and business formation, principles of agency, real property, personal property, bailments, bankruptcy, secured transactions, employment discrimination, business financing, investor protection, antitrust and environmental law. Prerequisite: 660.308 or 660.205 Business Law I. Not open to students who have taken 660.206 or 660.307 Business Law II. No audits	3.00	35	T 6:15-9:00PM
EN.660.414	01			Financial Statement Analysis <i>Leps, Annette</i>	3.00	30	TTh 12:00-1:15PM

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				<p>This course is designed to increase a student's ability to read and interpret financial statements and related information under both GAAP and IFRS (International Financial Reporting Standards). In addition to a review of the basic financial statements and accounting principles, the course will use industry and ratio analysis in addition to benchmarking and modeling techniques to encourage students to think in a more creative way when analyzing historic information or when forecasting financial statements. Students will assess firm profitability and risk, value assets and use spreadsheet models for financial forecasting and decision making. Prerequisite: 660.203 Financial Accounting. Not open to students who have taken 660.304 Financial Statement Analysis. No audits.</p>			
EN.660.453	01			<p>Social Media Marketing <i>Quesenberry, Keith</i> (course title changed 9/2010; formerly Communicating, Marketing, and Working on the Web, though never actually offered with this title) This course explores strategies for monitoring and engaging consumers in digital media. Students will gain practical knowledge about developing, implementing and measuring social media marketing campaigns. They will learn how to analyze what consumers are saying and connect with them by leveraging word of mouth, viral and buzz marketing through sites like Facebook, Twitter and YouTube. A series of assignments build upon each other toward a final social media marketing plan for a selected consumer product or service. Prerequisite: 660.250 Principles of Marketing. Co-listed with 661.453. No audits.</p>	3.00	20	TTh 1:30-2:45PM
EN.660.460	01			<p>Entrepreneurship <i>Rice, Eric</i> This course provides students with a solid introduction to the entrepreneurial process of creating new businesses. Students will gain an appreciation for the investors' perspective in assessing opportunities, evaluating strategies, and valuing the new enterprise. The course will cover the principal components of building a successful venture including management, market analysis, intellectual property protection, legal and regulatory issues, operations, entrepreneurial financing, and the role of the capital markets. Course work will include case studies and creation of investor marketing materials. Prerequisite: 660.105 Intro to Business or 660.250 Principles of Marketing, junior or senior standing. No audits.</p>	3.00	25	MW 12:00-1:15PM

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EN.660.461	01	E		Engineering Business and Management <i>Izenberg, Illysa B</i> An introduction to the business and management aspects of the engineering profession, project management, prioritization of resource allocation, intellectual property protection, management of technical projects, and product/production management. Cross-listed with Mechanical Engineering. Recommended prerequisite: 660.105 Introduction to Business. No audits.	3.00	23	TTh 9:00-10:15AM
EN.660.461	02	E		Engineering Business and Management	3.00	25	TTh 10:30-11:45AM
EN.660.461	03	E		Engineering Business and Management <i>Agronin, Michael</i>	3.00		M 6:15-9:00PM
EN.661.110	01		W	Professional Communication for Science, Business & Industry <i>McNeilly, Donald</i> (formerly as both Technical Communication and Business Communication) 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 661.110 as Technical Communication or 661.120 Business Communication. No audits.	3.00	20	TTh 9:00-10:15AM
EN.661.110	02		W	Professional Communication for Science, Business & Industry <i>Staff</i>	3.00	20	TTh 10:30-11:45AM
EN.661.110	03		W	Professional Communication for Science, Business & Industry <i>Frenkiel, Nora</i>	3.00	20	TTh 10:30-11:45AM
EN.661.110	04		W	Professional Communication for Science, Business & Industry	3.00	20	TTh 12:00-1:15PM
EN.661.110	05		W	Professional Communication for Science, Business & Industry <i>Heiserman, Jason</i>	3.00	20	TTh 12:00-1:15PM
EN.661.110	06		W	Professional Communication for Science, Business & Industry <i>Staff</i>	3.00	20	TTh 1:30-2:45PM
EN.661.110	07		W	Professional Communication for Science, Business & Industry <i>O'Donnell, Charlotte Alyssa</i>	3.00	20	W 1:30-4:15PM
EN.661.110	08		W	Professional Communication for Science, Business & Industry <i>Quesenberry, Keith</i>	3.00	20	MW 12:00-1:15PM
EN.661.111	01		W	Professional Communication for ESOL Students <i>Davis, Laura</i>	3.00	12	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 661.110 as Technical Communication or Professional Communication for Science, Business, and Industry or 661.120 Business Communication. Co-listed with 661.611. No audits.			
EN.661.150	01		W	Oral Presentations <i>Dungey, Kevin R</i>	3.00	13	M 3:00-5:45PM
				This course is designed to help students push through any anxieties about public speaking by immersing them in a practice-intensive environment. They learn how to speak with confidence in a variety of formats and venues - Including extemporaneous speaking, job interviewing, leading a discussion, presenting a technical speech, and other relevant scenarios. Students learn how to develop effective slides that capture the main point with ease and clarity, hone their message, improve their delivery skills, and write thought-provoking, well-organized speeches that hold an audience's attention. No audits.			
EN.661.150	02		W	Oral Presentations	3.00	13	M 6:15-9:00PM
EN.661.150	03		W	Oral Presentations <i>Reiser, Julie</i>	3.00	13	T 1:30-4:15PM
EN.661.150	04		W	Oral Presentations <i>Staff</i>	3.00	13	T 5:00-7:45PM
EN.661.150	05		W	Oral Presentations <i>Sheff, Pamela</i>	3.00	13	W 1:30-4:15PM
EN.661.150	06		W	Oral Presentations <i>O'Donnell, Charlotte Alyssa</i>	3.00	13	W 5:00-7:45PM
EN.661.150	07		W	Oral Presentations <i>Kulanko, Andrew</i>	3.00	13	Th 1:30-4:15PM
EN.661.150	08		W	Oral Presentations	3.00	13	Th 5:00-7:45PM
EN.661.151	01		W	Oral Presentations for ESL <i>Staff</i>	3.00	7	TBA

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				<p>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.</p> <p>Special attention will be placed on diction, pronunciation, tone, pace and emphasis of language. Additional attention also will be given to syntax as well as non-verbal communication patterns. Co-listed with 661.651. No audits.</p>			
EN.661.315	01	S	W	<p>The Culture of the Engineering Profession <i>Crane, Donna L</i></p> <p>For Engineering sophomores, juniors and seniors or by permission of instructor. This course focuses on building understanding of the culture of engineering while preparing students to communicate effectively with the various audiences with whom engineers interact. Working from a base of contemporary science writing (monographs, non-fiction, popular literature and fiction), students will engage in discussion, argument, case study and project work to investigate: the engineering culture and challenges to that culture, impacts of engineering solutions on society, ethical guidelines for the profession, and the ways engineering information is conveyed to the range of audiences for whom the information is critical. Additionally, students will master many of the techniques critical to successful communication within the engineering culture through a series of short papers and presentations associated with analysis of the writings and cases. No audits.</p>	3.00	24	TTh 10:30-11:45AM
EN.661.315	02	S	W	<p>The Culture of the Engineering Profession <i>Sheff, Pamela</i></p>	3.00	24	TTh 12:00-1:15PM
EN.661.317	01		W	<p>The Culture of the Medical Profession <i>Staff</i></p>	3.00	24	TTh 10:30-11:45AM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				For sophomores, juniors, and seniors or by permission of instructor. 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 in communication through a series of short papers and presentations associated with analysis of the writings and cases. No audits.			
EN.661.317	02		W	The Culture of the Medical Profession	3.00	24	TTh 12:00-1:15PM
EN.661.410	01	S	W	Research Writing for ESL <i>Link-Farajali, Denise</i> (This course is designed to help ESL writers succeed in writing, editing, and completing a large research project specific to their discipline. This could be a research report, journal article, literature review, dissertation chapter, grant proposal, or other relevant document. The course provided intensive help with grammar, idiomatic phrasing, and overall clarity for writers whose native language is not English. The course includes both individual consultation and group workshops. Undergraduates are required to be conducting research with a faculty member or by special permission of instructor. S/U grading only (students may elect to take this course for a traditional letter grade if their departments require them to do so; students must inform the instructor by the second week of class). Co-listed with 661.610. No audits.	3.00	5	M 6:00-8:45PM

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EN.661.453	01		W	Social Media and Marketing <i>Quesenberry, Keith</i> This course explores strategies for monitoring and engaging consumers in digital media. Students will gain practical knowledge about developing, implementing and measuring social media marketing campaigns. They will learn how to analyze what consumers are saying and connect with them by leveraging word of mouth, viral and buzz marketing through sites like Facebook, Twitter and YouTube. A series of assignments build upon each other toward a final social media marketing plan for a selected consumer product or service. Prerequisite: 660.250 Principles of Marketing. Co-listed with 660.453. No audits.	3.00	10	TTh 1:30-2:45PM

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Chemical & Biomolecular Engineering

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

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				Prereq: 540.203 Introduction of the methods used to solve thermodynamic problems faced by chemical and biomolecular engineers, including phase and chemical equilibria problems, the thermodynamic properties of interfaces, and the thermodynamics of macromolecules. The basic thermodynamic relationships to describe phase equilibrium of single-component and multicomponent systems are developed. Thermodynamic models for calculating fugacity are presented. Multi-component phase equilibrium problems addressed include liquid-vapor, liquid-liquid, and liquid-liquid-vapor equilibrium. Basic thermodynamic relationships to describe chemical equilibria, the physical chemistry of liquid-liquid and liquid-solid interfaces, and the conformation of biological macro-molecules are also presented.			
EN.540.304	01	EN		Transport Phenomena II <i>Gagnon, Zachary</i> Prereq: 540.303 Dimensional analysis and dimensionless groups. Laminar boundary layers, introduction to turbulent flow. Definition of the friction factor. Macroscopic mass, momentum and mechanical energy balances (Bernouilli's equation). Metering of fluids. Convective heat and mass transfer. Heat and mass transfer in boundary layers. Correlations for convective heat and mass transfer. Boiling and condensation. Interphase mass transfer.	4.00	100	MWF 8:40-9:50AM
EN.540.305	01			Modeling and Statistical Analysis of Data for Chemical and Biomolecular Engineers <i>AsthaGiri, Dilipkumar</i> Prereq:: 540.202; Recommended co-reqs: 540.203, 540.303, 540.304 This course seeks to build the student's strength in Chemical Engineering computing and data analysis. To this end, in the first part of the course, we will become familiar with the Matlab/Octave computing environment and solve problems in Chemical Engineering that involve concepts from Process Analysis, Thermodynamics, Transport Phenomena, and Kinetics. In the subsequent part, we will build on the skills learnt earlier and tackle problems in Data Analysis and Hypothesis testing.	3.00	85	TTh 10:30-11:45AM
EN.540.311	01	E	W	Chemical Eng Lab I <i>Dahuron, Lise</i>	6.00	8	M 1:00-5:50PM

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				Prereq: 540.301, 540.304, 540.306, 540.490, 661.315 Students will have additional meeting times outside of class. Students are challenged with laboratory projects that are not well-defined and learn to develop an effective framework for approaching experimental work by identifying the important operating variables, deciding how best to obtain them, and using measured or calculated values of these operating variables to predict, carryout, analyze and improve upon experiments. Each student analyzes three of the following four projects: distillation, gas absorption, liquid-liquid extraction and chemical kinetics in a tubular flow reactor and also one of the projects in 540.313. In addition to technical objectives, this course stresses oral and written communication skills and the ability to work effectively in groups.			
EN.540.311	02	E	W	Chemical Eng Lab I	6.00	4	T 1:00-5:50PM
EN.540.311	03	E	W	Chemical Eng Lab I	6.00	4	Th 1:00-5:50PM
EN.540.311	04	E	W	Chemical Eng Lab I	6.00	4	F 1:00-5:50PM
EN.540.312	01	E	W	Chemical and Biomolecular Eng Lab: Part 2 <i>Dahuron, Lise</i> Prereq: 540.301, 540.304, 540.306, 540.490, 661.315 Students who, as a part of an exchange program, participated in a laboratory course at the Technical University of Denmark at Copenhagen during the summer of 2010 are required to register for this course to complete their equivalency requirement for the Chemical and Biomolecular Engineering Laboratory course offered in Fall 2010 at JHU. This course comprises of four parts: (i) a research-oriented study of one of the seven experiments done at Copenhagen to be submitted as a report, (ii) performance of one experimental project and submission of report along with the current Senior Lab students, (iii) a 15-min presentation of experimental work done at Copenhagen, and (iv) a 5-min presentation to the current junior class describing the overall experience.	3.00	5	Th 1:30-4:30PM
EN.540.313	01	E	W	Chemical and Biomolecular Engineering Lab <i>Gerecht, Sharon</i> Prereq: 540.301, 540.304, 540.306, 540.490, 661.315 Students will have additional meeting times outside of class. Students are challenged with laboratory projects that are not well-defined and learn to develop an effective framework for approaching experimental work by identifying the important operating variables, deciding how best to obtain them, and using measured or calculated values of these operating variables to predict, carryout, analyze and improve upon experiments. Each student analyzes three biomolecular engineering projects and one of the projects in 540.311. In addition to technical objectives, this course stresses oral and written communication skills and the ability to work effectively in groups.	6.00	8	M 1:00-5:50PM

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EN.540.313	02	E	W	Chemical and Biomolecular Engineering Lab <i>Ostermeier, Marc</i>	6.00	12	T 1:00-5:50PM
EN.540.313	03	E	W	Chemical and Biomolecular Engineering Lab	6.00	12	Th 1:00-5:50PM
EN.540.313	04	E	W	Chemical and Biomolecular Engineering Lab	6.00	12	F 1:00-5:50PM
EN.540.402	01	E		Cellular and Molecular Biotechnology <i>Betenbaugh, Michael J</i> Application of quantitative molecular and cellular principles to the understanding of mammalian cell systems in biotechnology and bioengineering. Selected topics to be covered include signaling pathways, post-translational processing, immunology, differentiation, statistical methods of genomic analysis, metabolic engineering concepts, and structural components of cellular function.	3.00	30	F 1:30-4:15PM
EN.540.409	01	EQ		Modeling Dynamic/Control <i>Goffin, An</i> Coreq: 110.302 540.203, 540.301, 540.303. 020.305 and 020.306 or equivalent is recommended but not required. Introduction to modeling, dynamics, and control. Unsteady state analysis of biomolecular and chemical process control systems. State space and Laplace transform techniques, block diagram algebra, and transfer functions. Feedback and feedforward control. Frequency response and stability analysis. Model construction for biomolecular and cellular systems including pharmacokinetic modeling, biomolecular modeling using the central dogma of biology/control of gene expression, large scale biosimulation. Introduction to nonlinear dynamics.	4.00	25	MWF 10:00-10:50AM; M 1:00-1:50PM
EN.540.409	02	EQ		Modeling Dynamic/Control	4.00	25	MWF 10:00-10:50AM; T 12:00-12:50PM
EN.540.409	03	EQ		Modeling Dynamic/Control	4.00	25	MWF 10:00-10:50AM; W 1:00-1:50PM
EN.540.409	04	EQ		Modeling Dynamic/Control	4.00	25	MWF 10:00-10:50AM; T 1:00-1:50PM
EN.540.415	01			Interfacial Science with Applications to Nanoscale Systems <i>Frechette, Joelle</i> Nanostructured materials intrinsically possess large surface area (interface area) to volume ratios. It is this large interfacial area that gives rise to many of the amazing properties and technologies associated with nanotechnology. In this class we will examine how the properties of surfaces, interfaces, and nanoscale features differ from their macroscopic behavior. We will compare and contrast fluid-fluid interfaces with solid-fluid and solid-solid interfaces, discussing fundamental interfacial physics and chemistry, as well as touching on state-of-the-art technologies.	3.00	35	MW 3:00-4:15PM
EN.540.418	01	E		Projects in the design of a chemical Car <i>Frechette, Joelle</i>	3.00	15	T 5:00-7:30PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Co-requisite: 540.490 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.			
EN.540.426	01	E		Biomacromolecules at the nanoscale <i>Wirtz, Denis</i> This course introduces modern concepts of polymer physics at the nanoscale to describe the conformation and dynamics of biological macromolecules such as filamentous actin, microtubule, and nucleic acids. We will introduce scattering techniques, nano-manipulation techniques, as well as nano-rheology applied to the study of polymers for tissue engineering, nanoparticles, and drug delivery applications.	3.00	30	MW 1:30-2:45PM
EN.540.447	01	EN		Advanced Problems in Fluid Mechanics <i>Drazer, German</i> A selection of problems in fluid mechanics at low and moderate Reynolds numbers. This is a highly interactive class in which students are expected to choose topics and prepare a presentation at least twice a semester. Therefore, the list of problems will vary depending on student selection. Typically Tuesdays will be an introductory class and Thursdays will be seminars on a specific topic or paper. Meets with 540.647	3.00	15	TTh 3:00-4:15PM
EN.540.490	01			Chem Laboratory Safety <i>Dahuron, Lise</i> Perm. Req'd. This course is meant to provide the student with a basic knowledge of laboratory safety; hazards, regulations, personal protective equipment, good laboratory practice, elementary toxicology, and engineering controls. It has been developed by the Department of Chemical and Biomolecular Engineering to assist with regulatory compliance, minimize hazards, and reduce the severity of any incidents that may occur in the department's laboratories. The course is a prerequisite of 540.311/540.313. It is required of all Chemical and Biomolecular Engineering undergraduates. In addition once per year a three-hour refresher seminar must be taken by all students involved in laboratory research.	1.00	100	Th 4:30-7:30PM
EN.540.490	02			Chem Laboratory Safety	1.00	100	F 4:30-7:30PM

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Civil Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.560.201	01	E		Statics/Strength of Materials <i>Igusa, Takeru</i> Prereq: 171.101 or (530.103 and 530.104) or Permission Only. Basic principles of classical mechanics applied to the equilibrium of particles and rigid bodies at rest, under the influence of various force systems. In addition, the following topics are studied: free body concept, analysis of simple structures, friction, centroids and centers of gravity, and moments of inertia. Includes laboratory experience. Co-listed with 530.201.	4.00	8	TTh 10:30-11:45AM; M 4:00-5:50PM
EN.560.201	02	E		Statics/Strength of Materials	4.00	8	TTh 10:30-11:45AM; M 6:00-7:50PM
EN.560.201	03	E		Statics/Strength of Materials	4.00	8	TTh 10:30-11:45AM; T 2:00-3:40PM
EN.560.201	04	E		Statics/Strength of Materials	4.00	8	TTh 10:30-11:45AM; T 4:00-5:50PM
EN.560.201	05	E		Statics/Strength of Materials	4.00	8	TTh 10:30-11:45AM; W 4:00-5:50PM
EN.560.201	06	E		Statics/Strength of Materials	4.00	8	TTh 10:30-11:45AM; Th 4:00-5:50PM
EN.560.220	01	E		Civil Engineering Analysis <i>Mitrani-Reiser, Judith</i> Prereq: Calculus I, II. Civil engineering problems are formulated and then solved by numerical methods. Matrix inversion, data fitting and interpolation, root-finding, and solutions of ordinary and partial differential equations are presented. Matlab programming will be introduced to facilitate the solutions.	3.00	25	MW 12:00-1:15PM
EN.560.305	01	E		Soil Mechanics <i>Staff</i> Prereq: 560.206 Coreq: 570.351 or 560.351 Basic principles of soil mechanics. Classification of soils. Compaction theory. Consolidation seepage and settlement analysis. Stress-strain and shear strength of soils. Introduction to earth pressure theories and slope stability analysis.	4.00	30	F 11:00AM-1:00PM; WF 3:00-4:15PM
EN.560.320	01	E		Steel Structures <i>Sangree, Rachel H</i> Principles, analysis, and methodologies for conceptual and detailed design of steel structures. Emphasis on the role of mechanics in modern structural engineering design specifications with a focus on load and resistance factor design. Topics include behavior and design of hot-rolled and cold-formed steel: connections, members, frames, and advanced analysis techniques.	3.00	30	TTh 10:30-11:45AM
EN.560.351	01	E		Introduction to Fluid Mechanics <i>Dalrymple, Robert</i> Introduction to the use of the principles of continuity, momentum, and energy to fluid motion. Topics include hydrostatics, ideal-fluid flow, laminar flow, turbulent flow, form and surface resistance with application to fluid measurement, flow in conduits, and channels, pumps, or turbines. Co-listed with EN.570.351.	3.00	25	MWF 10:00-10:50AM; Th 12:00-1:20PM
EN.560.440	01	E		Applied Finite Element Methods. <i>Nakata, Narutoshi</i>	3.00	20	MW 1:30-2:45PM

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Civil Engineering

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				Finite Element Methods (FEM) are one of the most powerful engineering tools that are widely used in various disciplines. This course introduces concepts, capabilities, and limitations of FEM and is intended to facilitate applications of FEM in student's research. The course covers fundamental theories with a focus on stiffness formulation techniques, element types, and computational procedures. The course also offers finite element programming with MATLAB.			
EN.560.445	01	E		Adv Structural Analysis <i>Guest, James K</i> Prereq: 560.206 Matrix methods for the analysis of statistically indeterminate structures such as beams, plane and space trusses, and plane and space frames. Stiffness and flexibility methods. Linear elastic analysis and introduction to nonlinear analysis.	3.00	30	TTh 9:00-10:15AM
EN.560.451	01	E		Civil Engineering Design I <i>Matteo, John</i> Prereq: Senior status or Perm. Req'd. A study of the engineering design process from problem definition to the final design. There are team projects which include written and oral presentations.	2.00	60	Th 4:30-6:20PM
EN.560.491	01	EN		Civil Engr Seminar I <i>Sangree, Rachel H</i> Seminar series of speakers on various aspects of civil engineering. Juniors and seniors in Civil Engineering are expected to enroll in this sequence; juniors and seniors receive one-half credit. Different speakers are invited each semester. Satisfactory/ Unsatisfactory only	0.50	75	T 12:00-12:50PM
EN.560.492	01	EN		Civil Engr Seminar II <i>Sangree, Rachel H</i> Prereq: 560.491 See 560.491 Seminar series of speakers on various aspects of civil engineering. Juniors and seniors in Civil Engineering are expected to enroll in this sequence; juniors and seniors receive one-half credit. Different speakers are invited each semester. Satisfactory/ Unsatisfactory only	0.50	75	T 12:00-12:50PM
EN.560.493	01	EN		Civil Engr Seminar III <i>Sangree, Rachel H</i> Prereq: 560.492 See 560.491 Seminar series of speakers on various aspects of civil engineering. Juniors and seniors in Civil Engineering are expected to enroll in this sequence; juniors and seniors receive one-half credit. Different speakers are invited each semester. Satisfactory/ Unsatisfactory only	0.50	75	T 12:00-12:50PM

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Civil Engineering

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EN.560.494	01	EN		Civil Engr Seminar IV <i>Sangree, Rachel H</i> Prereq: 560.493 See 560.491 Seminar series of speakers on various aspects of civil engineering. Juniors and seniors in Civil Engineering are expected to enroll in this sequence; juniors and seniors receive one-half credit. Different speakers are invited each semester. Satisfactory/Unsatisfactory only	0.50	75	T 12:00-12:50PM

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Computer Science

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.600.104	01	H		Computer Ethics <i>Kosaraju, Sheela</i> Students will examine a variety of topics regarding policy, legal, and moral issues related to the computer science profession itself and to the proliferation of computers in all aspects of society, especially in the era of the Internet. The course will cover various general issues related to ethical frameworks and apply those frameworks more specifically to the use of computers and the Internet. The topics will include privacy issues, computer crime, intellectual property law -- specifically copyright and patent issues, globalization, and ethical responsibilities for computer science professionals. Work in the course will consist of weekly assignments on one or more of the readings and a final paper on a topic chosen by the student and approved by the instructor. - CS Majors Only - Alternate Weeks - (start date TBA)	1.00	20	W 6:00-8:00PM
EN.600.105	01			M & Ms: Freshman Exp <i>Selinski, Joanne F</i> This course is required for all freshmen Computer Science majors. Transfers into the major and minors may enroll by permission only. Students will attend four 3-week blocks of meetings with different computer science professors, focused on a central theme. Active participation is required. Satisfactory/Unsatisfactory only.	1.00	35	T 4:30-5:20PM
EN.600.107	01	E		Intro Programming-Java <i>Selinski, Joanne F</i> This course introduces fundamental structured and object-oriented programming concepts and techniques, using Java, and is intended for all who plan to use computer programming in their studies and careers. Topics covered include variables, arithmetic operations, control structures, arrays, functions, recursion, dynamic memory allocation, text 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 600.108 (sections 01-03) concurrently. Students may receive credit for no more than one of the following: 600.107 or 600.111 or 600.112 . (www.cs.jhu.edu/~joanne/cs107) Prereq: familiarity with computers.	3.00	90	MW 1:30-2:45PM

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Computer Science

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.600.108	01	E		Intro Programming Lab <i>Selinski, Joanne F</i> Satisfactory/Unsatisfactory only. Must be taken in conjunction with 600.107 or 600.111. The purpose of this course is to give novice programmers extra hands-on practice with guided supervision. Students will work in pairs each week to develop working programs, with checkpoints for each development phase. Sections 1-3 are for 107 students, sections 4-6 are for 111 students. Co-req: 600.107 or 600.111.	1.00	16	W 4:30-7:20PM
EN.600.108	02	E		Intro Programming Lab	1.00	16	Th 6:00-8:50PM
EN.600.108	03	E		Intro Programming Lab	1.00	16	F 1:30-4:20PM
EN.600.108	04	E		Intro Programming Lab <i>Froehlich, Peter</i>	1.00	16	W 4:30-7:20PM
EN.600.108	05	E		Intro Programming Lab	1.00	16	Th 6:00-8:50PM
EN.600.108	06	E		Intro Programming Lab	1.00	16	F 12:00-2:50PM
EN.600.112	01	E		Introduction to Programming for Scientists and Engineers <i>Froehlich, Peter</i> An introductory "learning by doing" programming course for scientists, engineers, and everybody else who will need basic programming skills in their studies and careers. We cover the fundamentals of structured, modular, and (to some extent) object-oriented programming as well as important design principles and software development techniques such as unit testing and revision control. We will apply our shiny new programming skills by developing computational solutions to a number of real-world problems from a variety of disciplines. Students new to computer programming are encouraged to enroll into 600.108 Intro Programming Lab concurrently with this course. Students may receive credit for no more than one of the following: 600.107 or 600.111 or 600.112. [Note: This course may not be used for the CS major or minor requirements, except as a substitute for 600.107.]	3.00	90	MW 12:00-1:15PM
EN.600.120	01	E		Intermediate Programming <i>Froehlich, Peter</i> This course teaches intermediate to advanced programming, using C and C++. (Prior knowledge of these languages is not expected.) We will cover low-level programming techniques, as well as object-oriented class design, and the use of class libraries. Specific topics include pointers, dynamic memory allocation, polymorphism, overloading, inheritance, templates, collections, exceptions, and others as time permits. Students are expected to learn syntax and some language specific features independently. Course work involves significant programming projects in both languages. Prereq: AP CS, 600.107, 600.111 or equivalent	4.00	50	MWF 3:00-4:15PM
EN.600.226	01	EQ		Data Structures	4.00	75	MWF 12:00-1:15PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<p><i>Selinski, Joanne F</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. (www.cs.jhu.edu/~joanne/cs226)</p> <p>Prereq: AP CS or 600.107 or 600.120 or equivalent.</p>			
EN.600.315	01	E		<p>Databases</p> <p><i>Yarowsky, David</i></p> <p>Introduction to database management systems and database design, focusing on the relational and object-oriented data models, query languages and query optimization, transaction processing, parallel and distributed databases, recovery and security issues, commercial systems and case studies, heterogeneous and multimedia databases, and data mining. [Systems] (www.cs.jhu.edu/~yarowsky/cs415.html)</p> <p>Prereq: 600.226. Students may receive credit for 600.315 or 600.415, but not both.</p>	3.00	30	TTh 3:00-4:15PM
EN.600.321	01	E		<p>Object Oriented Software Engineering</p> <p><i>Smith, Scott F</i></p> <p>This course covers object-oriented software construction methodologies and their application. The main component of the course is a large team project on a topic of your choosing. Course topics covered include object-oriented analysis and design, UML, design patterns, refactoring, program testing, code repositories, team programming, and code reviews. [Systems or Applications] (http://pl.cs.jhu.edu/oose/index.shtml)</p> <p>Prereq: 600.226 and 600.120. Students may receive credit for 600.321 or 600.421, but not both.</p>	3.00	40	MW 1:30-2:45PM
EN.600.333	01	E		<p>Computer System Fundamentals</p> <p><i>Froehlich, Peter</i></p>	3.00	50	MWF 10:00-10:50AM

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Computer Science

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				CSF addresses the design and performance of the principal operational components of a reduced-instruction-set computing system (RISC) which supports the efficient execution of widely used instruction sets. Arithmetic and logic units, memory hierarchy designs, state-machine controllers, and other related hardware and firmware components are studied, and the qualities of their combined processing capabilities are assessed by means of execution times associated with a range of benchmark programs. Assembly language programming projects, homework problems, and exams are employed to assess a student's fundamental understanding of the tradeoffs resulting from an assortment of variations in digital system design decisions that ultimately characterize the performance of the computing system architecture that is developed. [Systems]			
				Prereq: intro programming. Students may receive credit for 600.333 or 600.433, but not both.			
EN.600.337	01	E		Distributed Systems <i>Amir, Yair</i>	3.00	15	MW 3:00-4:15PM
				This course teaches how to design and implement protocols that enable processes to exchange information, cooperate, and coordinate efficiently in a consistent manner over a computer network. Topics include communication protocols, group communication, distributed databases, distributed operating systems, and security. [Systems] (www.cnds.jhu.edu/courses/cs437)			
				Prereq: 600.120, 600.226. Students may receive credit for 600.337 or 600.437, but not both.			
EN.600.361	01	EQ		Computer Vision <i>Hager, Gregory</i>	3.00	20	TTh 9:00-10:15AM
				This course gives an overview of fundamental methods in computer vision from a computational perspective. Methods studied include: camera systems and their modeling; computation of 3-D geometry from binocular stereo, motion, and photometric stereo; and object recognition. Edge detection and color perception are covered as well. Elements of machine vision and biological vision are also included. [Applications] (https://cirl.lcsr.jhu.edu/Vision_Syllabus)			
EN.600.363	01	EQ		Intro To Algorithms <i>Braverman, Vladimir</i>	3.00	30	TTh 9:00AM-10:15PM

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				<p>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]</p> <p>Prereq: 600.226 or Perm. Req'd. Students may receive credit for 600.363 or 600.463, but not both.</p>			
EN.600.415	01	E		<p>Databases <i>Yarowsky, David</i></p> <p>Graduate level version of 600.315. Students may receive credit for 600.315 or 600.415, but not both. [Systems] (www.cs.jhu.edu/~yarowsky/cs415.html)</p> <p>Prereq: 600.226.</p>	3.00	40	TTh 3:00-4:15PM
EN.600.421	01	E		<p>Object Oriented Software Engineering <i>Smith, Scott F</i></p> <p>Graduate level version of 600.321. Students may receive credit for 600.321 or 600.421, but not both. [Systems or Applications] (http://pl.cs.jhu.edu/oose/index.shtml)</p> <p>Prereq: 600.226 and 600.120/121.</p>	3.00	40	MW 1:30-2:45PM
EN.600.429	01	E		<p>Functional Programming at Work - Haskell and Domain-Specific Languages <i>Staff</i></p> <p>This course studies pure functional programming in the Haskell language and the use of functional programming to build domain specific languages (DSLs): customized, application specific programming languages. This course starts with an introduction to Haskell and its essential ideas of lazy evaluation and type inference. Advanced functional programming topics will include type classes, monads and monad transformers, arrows, templates, dependent types, parser combinators, and multiple parameter type classes. The class will study existing DSLs and DSL implementation techniques, including languages for reactive programming, computer vision, hardware design, computer music, and parallel processing. Students will implement a DSL of their choice in Haskell.</p>	3.00	40	TTh 3:00-4:15PM
EN.600.433	01	E		<p>Computer Systems <i>Froehlich, Peter</i></p> <p>Graduate version of 600.333. Students may receive credit for 600.333 or 600.433, but not both. [Systems]</p>	3.00	20	MWF 10:00-10:50AM
EN.600.437	01	E		<p>Distributed Systems <i>Amir, Yair</i></p>	3.00	30	MW 3:00-4:15PM

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				Graduate version of 600.337. Students may receive credit for 600.337 or 600.437, but not both. [Systems] (www.cnds.jhu.edu/courses/cs437)			
				Prereq: 600.120, 600.226.			
EN.600.442	01	EQ		Modern Cryptography <i>Pappacena, Christopher J</i> Prerequisite: 600.226 and a 300-level or above systems course; 600.271/471 and 550.171 or equivalent. This course focuses on cryptographic algorithms, formal definitions, hardness assumptions, and proofs of security. Topics include number-theoretic problems, pseudo-randomness, block and stream ciphers, public-key cryptography, message authentication codes, and digital signatures. [Analysis]	3.00	20	T 4:30-7:15PM
EN.600.443	01	E		Security & Privacy in Computing <i>Rubin, Aviel D</i> Lecture topics will include computer security, network security, basic cryptography, system design methodology, and privacy. There will be a heavy work load, including written homework, programming assignments, exams and a comprehensive final. The class will also include a semester-long project that will be done in teams and will include a presentation by each group to the class. [Applications] Prerequisite: A basic course in operating systems and networking, or permission of instructor.	3.00	45	MW 1:30-2:45PM
EN.600.445	01	E		Computer Integrated Surgery I <i>Taylor, Russell H</i> This course focuses on computer-based techniques, systems, and applications exploiting quantitative information from medical images and sensors to assist clinicians in all phases of treatment from diagnosis to preoperative planning, execution, and follow-up. It emphasizes the relationship between problem definition, computer-based technology, and clinical application and includes a number of guest lectures given by surgeons and other experts on requirements and opportunities in particular clinical areas. [Applications] (http://www.cisst.org/~cista/445/index.html) Prereq: 600.120, 600.226 and linear algebra. Recmd: 600.457, 600.461, image processing.	4.00	50	TTh 1:30-2:45PM
EN.600.461	01	EQ		Computer Vision <i>Hager, Gregory</i> Graduate version of 600.361. Students may receive credit for 600.361 or 600.461, but not both. [Applications] (https://cirl.lcsr.jhu.edu/Vision_Syllabus) Prereq: 600.226 & linear algebra	3.00	50	TTh 9:00-10:15AM
EN.600.463	01	EQ		Algorithms I	3.00	30	TTh 9:00-10:15AM

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				<i>Braverman, Vladimir</i> Graduate version of 600.363. Students may receive credit for 600.363 or 600.463, but not both. Prereq: 600.226 or Perm. req'd.			
EN.600.464	01	EQ		Randomized Algorithms <i>Kosaraju, S Rao</i> The course emphasizes algorithmic design aspects, and how randomization can be a helpful tool. The topics covered include: tail inequalities, linear programming relaxation & randomized rounding, de-randomization, existence proofs, universal hashing, markov chains, metropolis and metropolis-hastings methods, mixing by coupling and by eigenvalues, counting problems, semi-definite programming and rounding, lower bound arguments, and applications of expanders. [Analysis] (www.cs.jhu.edu/~cs464)	3.00	20	TTh 1:30-2:45PM
EN.600.465	01	E		Natural Language Processing <i>Eisner, Jason</i> This course is an in-depth overview of techniques for processing human language. How should linguistic structure and meaning be represented? What algorithms can recover them from text? And crucially, how can we build statistical models to choose among the many legal answers? The course covers methods for trees (parsing and semantic interpretation), sequences (finite-state transduction such as morphology), and words (sense and phrase induction), with applications to practical engineering tasks such as information retrieval and extraction, text classification, part-of-speech tagging, speech recognition and machine translation. There are a number of structured but challenging programming assignments. [Applications] (www.cs.jhu.edu/~jason/465) Prerequisite: 600.226.	3.00	40	MWF 3:00-3:50PM
EN.600.467	01	E		Wireless Networks <i>Mishra, Amitabh</i> This course covers the basics of mobile communication and wireless networking for computer science majors by keeping a balance between communication and networking topics. In this course the students will be exposed to wireless transmission fundamentals (path loss, shadowing, modulation, coding and channel models), wireless cellular networks (cellular concept, channel reuse, capacity limits, and cellular systems such as GSM, GPRS and UMTS), and learn about mobile network and transport layers, medium access control protocols, wireless local area networks (IEEE 802.11), wireless mesh networks (IEEE 802.16), and emerging dynamic spectrum access networks based on cognitive radios. [Systems] Prerequisites: 600.344/444 or equivalent.	3.00	20	TTh 12:00-1:15PM

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EN.600.471	01	EQ		Theory of Computation <i>Variyam, Vinodchandran</i> This is a graduate-level course studying the theoretical foundations of computer science. Topics covered will be models of computation from automata to Turing machines, computability, complexity theory, randomized algorithms, inapproximability, interactive proof systems and probabilistically checkable proofs. Students may not take both 600.271 and 600.471, unless one is for an undergrad degree and the other for grad. [Analysis] Prerequisite: 550.171 or permission.	3.00	40	TTh 12:00-1:15PM
EN.600.475	01	E		Machine Learning <i>Dredze, Mark</i> Prereq: multivariate calculus. This course takes an application driven approach to current topics in machine learning. The course covers supervised learning (classification/structured prediction/regression/ranking), unsupervised learning (dimensionality reduction, bayesian modeling, clustering) and semi-supervised learning. Additional topics may include reinforcement learning and learning theory. The course will also consider challenges resulting from learning applications, such as transfer learning, multi-task learning and large datasets. We will cover popular algorithms (naive Bayes, SVM, perceptron, HMM, winnow, LDA, k-means, maximum entropy) and will focus on how statistical learning algorithms are applied to real world applications. Students in the course will implement several learning algorithms and develop a learning system for a final project. [Applications] (www.ch.jhu.edu/~mdredze)	3.00	40	MW 12:00-1:15PM
EN.650.445	01			Practical Cryptographic Systems <i>Green, Matthew</i> This semester long course will teach skill of how cryptographic systems work and fail - as part of a complete hardware and software system. The skills will be taught by examples I.e., by studying and identifying flaws in widely deployed crypto systems. We will place a particular emphasis on the failure of "security by obscurity" and the feasibility of reverse-engineering undocumented crypto systems. Co-listed with 600.454	3.00	40	MW 3:00-4:15PM

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

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

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				Prereq: 520.214 This course covers the principles of modern analog and digital communication systems. Topics include: amplitude modulation formats (DSB, SSC VSB), exponential modulation formats(PM, FM) ,superheterodyne receivers, digital representation of analog signals, sampling theorem, pulse code modulation formats (PCM, DPCM, DM, spread-spectrum), signals with additive Gaussian noise, maximum likelihood receiver design, matched filtering, and bit error rate analyses of digital communication systems.			
EN.520.403	01	E		Introduction to Optical Instruments <i>Khurgin, Jacob</i>	3.00	30	MW 12:00-1:15PM
				This course is intended to serve as an introduction to optics and optical instruments that are used in engineering, physical, and life sciences. The course covers first basics of ray optics with the laws of refraction and reflection and goes on to description of lenses, microscopes, telescopes, and imaging devices. Following that basics of wave optics are covered, including Maxwell equations, diffraction and interference. Operational principles and performance of various spectrometric and interferometric devices are covered including both basics (monochromatic, Fabry-Perot and Michelson interferometers), and advanced techniques of near field imaging, laser spectroscopy, Fourier domain spectroscopy, laser Radars and others.			
EN.520.410	01	E		Fiber Optics & Devices <i>Davidson, Frederic</i>	3.00	25	MW 3:00-4:15PM
				This course covers light propagation in fiber optic light guides, integrated optic wave guides, photodetectors, and the photon nature of light. Topics include light propagation in step-index and graded-index optical fibers, dielectric slab waveguides, photodetectors, photon shot noise, and photodetector signal-to-noise ratios. Prereq: 520.214, 520.219-220 or equivalent			
EN.520.414	01	E		Image Processing & Analysis <i>Goutsias, John I</i>	3.00	30	MW 4:30-5:45PM
				Prereq: 520.214 The course covers fundamental methods for the processing and analysis of images and describes standard and modern techniques for the understanding of images by humans and computers. Topics include elements of visual perception, sampling and quantization, image transforms, image enhancement, color image processing, image restoration, image segmentation, and multiresolution image representation. Laboratory exercises demonstrate key aspects of the course.			
EN.520.419	01	EQ		Iterative Algorithms <i>Meyer, Gerard G</i>	3.00	50	MWF 9:00-9:50AM

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				Prereq: 110.201-202 An introduction to the study of the structure, behavior and design of iterative algorithms. Topics include problem formulations, algorithm description and classification, the deterministic iterative (DI) schema, doubling schema, cluster point sets, periodic points, DI schemas without stop rule, the monotonic DI schema, contractive and affine maps, bounded and Cauchy sequences, asymptotically regular sequences, monotonic sequences.			
EN.520.424	01	EQ		FPGA Synthesis Lab <i>Jenkins, Robert E</i> An advanced laboratory course in the application of FPGA technology to information processing, using VHDL synthesis methods for hardware development. The student will use commercial CAD software for VHDL simulation and synthesis, and implement their systems in programmable XILINX 20,000 gate FPGA devices. The lab will consist of a series of digital projects demonstrating VHDL design and synthesis methodology, building up to final projects at least the size of an 8-bit RISC computer. Projects will encompass such things as system clocking, flip-flop registers, state-machine control, and arithmetic. The students will learn VHDL methods as they proceed through the lab projects, and prior experience with VHDL is not a pre-requisite.	3.00	13	T 3:00-5:20PM; Th 3:00-4:20PM
EN.520.424	02	EQ		FPGA Synthesis Lab	3.00	13	Th 3:00-4:20PM; M 3:00-5:20PM
EN.520.427	01	E		Product Design Lab <i>Etienne Cummings, Ralph</i> This project-based course is designed to help students learn how to turn their ideas into commercial products. In the first half of the course, emphasis will be placed on the product development process: student teams will gradually build up a complete "contract book" including a mission statement, competitive analysis, patent review, product specifications, system schematics, economic analysis, development schedule, etc. In the second half of the course, each team will be expected to implement its design and demonstrate a prototype of their product's core functionality. At the end of the semester, a final written report will be submitted in the form of a utility patent. Students are encouraged to take this course in conjunction with Electronic Design Lab (ECE 520.448) in the Spring semester and leverage the groundwork developed here to enable production of a fully functional and marketable prototype by the end of the academic year.	3.00	20	T 1:30-4:30PM; Th 1:30-2:20PM
EN.520.432	01	E		Medical Imaging Systems <i>Prince, Jerry Ladd</i>	3.00	50	MWF 10:00-10:50AM

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				An introduction to the physics, instrumentation, and signal processing methods used in general radiography, X-ray computed tomography, ultrasound imaging, magnetic resonance imaging, and nuclear medicine. The primary focus is on the methods required to reconstruct images within each modality, with emphasis on the resolution, contrast, and signal-to-noise ratio of the resulting images. Co-listed as 580.472			
EN.520.435	01	E		Digital Signal Processing <i>Weinert, Howard L</i> Prereq: 520.214 Methods for processing discrete-time signals. Topics include signal and system representations, z- transforms, sampling, discrete Fourier transforms, fast Fourier transforms, digital filters.	3.00	30	TTh 10:30-11:45AM
EN.520.445	01	E		Audio Signal Processing <i>Elhilali, Mounya</i> Prereq: knowledge of Fourier analysis and signal processing or permission of instructors. This course gives a foundation in current audio and speech technologies, and covers techniques for sound processing by processing and pattern recognition, acoustics, auditory perception, speech production and synthesis, speech estimation. The course will explore applications of speech and audio processing in human computer interfaces such as speech recognition, speaker identification, coding schemes (e.g. MP3), music analysis, noise reduction. Cross-listed with BME	3.00	40	TTh 10:30-11:45AM
EN.520.452	02	E		Advanced ECE Engineering Team Project <i>Kang, Jin U</i> (Junior and Seniors) This course introduces the student to running an ECE engineering team project. The student will participate in the team project as a leading member and is expected to manage both the team members and the different aspects of the project over several semesters. Permission of the instructor is required for new team members.	3.00	50	TBA
EN.520.452	03	E		Advanced ECE Engineering Team Project	3.00	50	TBA
EN.520.457	01	E		Basics of Wave and Quantum Mechanics <i>Kaplan, Alexander E</i> Prerequisites: 171.101-102, 520.219-220. Basic principles of quantum mechanics for engineers. Topics include the quantum theory of simple systems, in particular atoms and engineered quantum wells, the interaction of radiation and atomic systems, and examples of application of the quantum theory to lasers and solid-state devices. Prerequisites: 171.101-102 and 520.219-220.	3.00	25	TBA
EN.520.485	01	EN		Advanced Semiconductor Devices <i>Khurgin, Jacob</i>	3.00	20	MW 1:30-2:45PM

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				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.			
EN.520.491	01	E		CAD Design of Digital VLSI Systems I (Seniors/Grads) <i>Etienne Cummings, Ralph</i> Seniors and Graduate Students Only	3.00	20	MW 3:00-4:30PM
EN.520.495	01	EN		Microfabrication Lab <i>Wang, Jeff T</i> Seniors only or Perm. Req'd. This laboratory course is an introduction to the principles of microfabrication for microelectronics, sensors, MEMS, and other synthetic microsystems that have applications in medicine and biology. Course comprises of laboratory work and accompanying lectures that cover silicon oxidation, aluminum evaporation, photoresist deposition, photolithography, plating, etching, packaging, design and analysis CAD tools, and foundry services. Co-listed as 580.495 & 530.495	4.00	4	W 1:30-2:20PM; Th 1:00-4:50PM
EN.520.495	02	EN		Microfabrication Lab <i>Andreou, Andreas</i>	4.00	4	W 1:30-2:20PM; Th 5:00-7:50PM
EN.520.495	03	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; F 8:00-11:50AM
EN.520.495	04	EN		Microfabrication Lab	4.00	4	W 1:30-2:20PM; F 1:00-4:50PM
EN.520.495	05	EN		Microfabrication Lab	4.00	4	Th 8:00-11:50AM; W 1:30-2:20PM
EN.520.498	02	E		Senior Design Project <i>Elhilali, Mounya</i> Instructor permission required. Capstone design project, in which a team of students engineers a system and evaluates its performance in meeting design criteria and specifications. Example application areas are micro-electronic information processing, image processing, speech recognition, control, communications, and biomedical instrumentation. The design needs to demonstrate creative thinking and experimental skills, and needs to draw upon knowledge in basic sciences, mathematics, and engineering sciences. Interdisciplinary participation, such as by biomedical engineering, mechanical engineering, and computer science majors, is strongly encouraged.	3.00	10	None
EN.520.498	03	E		Senior Design Project <i>Kang, Jin U</i>	3.00	10	None
EN.520.498	05	E		Senior Design Project <i>Etienne Cummings, Ralph</i>	3.00	10	None
EN.520.498	06	E		Senior Design Project <i>Tran, Trac Duy</i>	3.00	10	None
EN.520.498	07	E		Senior Design Project <i>Tarraf, Danielle</i>	3.00	10	None

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EN.520.498	08	E		Senior Design Project <i>West, James E</i>	3.00	10	None
EN.580.472	01	E		Topics - Med Imaging Sys <i>Prince, Jerry Ladd</i> Prereq: 520-214 An introduction to the physics, instrumentation, and signal processing methods used in general radiography, X-ray computed tomography, ultrasound imaging, magnetic resonance imaging, and nuclear medicine. The primary focus is on the methods required to reconstruct images within each modality, with emphasis on the resolution, contrast, and signal-to-noise ratio of the resulting images. (Note: Beginning Fall '08 this course will permanently move to the fall semester.) Co-listed as 520.432	3.00	30	MWF 10:00-10:50AM

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Entrepreneurship and Management

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.660.105	01	S	W	Introduction to Business <i>Aronhime, Lawrence</i> This course is designed as an introduction to the terms, concepts, and values of business and management. The course comprises three broad categories: the economic, financial, and corporate context of business activities; the organization and management of business enterprises; and, the marketing and production of goods and services. Topic specific readings, short case studies and financial exercises all focus on the bases for managerial decisions as well as the long and short-term implications of those decisions in a global environment. No audits.	4.00	30	MWF 12:00-12:50PM; T 1:30-2:20PM
EN.660.105	02	S	W	Introduction to Business	4.00	30	MWF 12:00-12:50PM; T 1:30-2:20PM
EN.660.105	03	S	W	Introduction to Business	4.00	30	MWF 12:00-12:50PM; T 3:00-3:50PM
EN.660.105	04	S	W	Introduction to Business	4.00	30	MWF 12:00-12:50PM; W 3:00-3:50PM
EN.660.105	05	S	W	Introduction to Business	4.00	30	MWF 12:00-12:50PM; Th 1:30-2:20PM
EN.660.105	06	S	W	Introduction to Business	4.00	30	MWF 12:00-12:50PM; Th 3:00-3:50PM
EN.660.203	01			Financial Accounting <i>Aronhime, Lawrence</i> The course in Financial Accounting is designed for anyone who could be called upon to analyze and/or communicate financial results and/or make effective financial decisions in a for-profit business setting. No prior accounting knowledge or skill is required for successful completion of this course. Because accounting is described as the language of business, this course emphasizes the vocabulary, methods, and processes by which all business transactions are communicated. The accounting cycle, basic business transactions, internal controls, and preparation and understanding of financial statements including balance sheets, statements of income and cash flows are covered. No audits.	3.00	35	MWF 10:00-10:50AM
EN.660.203	02			Financial Accounting <i>Leps, Annette</i>	3.00	35	MW 12:00-1:15PM
EN.660.203	03			Financial Accounting <i>Aronhime, Lawrence</i>	3.00	35	TTh 10:30-11:45AM
EN.660.203	04			Financial Accounting <i>Powell, Jack L</i>	3.00		M 6:15-9:00PM
EN.660.250	01			Principles of Marketing <i>Kendrick, Leslie</i>	3.00	35	MW 12:00-1:15PM

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				This course explores the role of marketing in society and within the organization. It examines the process of developing, pricing, promoting and distributing products to consumer and business markets and shows how marketing managers use the elements of the marketing mix to gain a competitive advantage. Through interactive, application-oriented exercises, case videotapes, a guest speaker (local marketer), and a group project, students will have ample opportunity to observe key marketing concepts in action. The group project requires each team to research the marketing plan for an existing product of its choice. Teams will analyze what is currently being done by the organization, choose one of the strategic growth alternatives studied, and recommend why this alternative should be adopted. The recommendations will include how the current marketing plan will need to be modified in order to implement this strategy and will be presented to the instructor in written form and presented to the class. No audits.			
EN.660.250	02			Principles of Marketing	3.00	35	MW 1:30-2:45PM
EN.660.250	03			Principles of Marketing <i>DeVries, Marci</i>	3.00	35	TTh 12:00-1:15PM
EN.660.250	04			Principles of Marketing <i>Pennington, Josianne W.</i>	3.00	35	TTh 12:00-1:15PM
EN.660.250	05			Principles of Marketing <i>Williams, Cheryl G</i>	3.00	35	W 1:30-3:50PM
EN.660.308	01	S		Business Law I <i>Fisher, David</i>	3.00	35	M 6:15-9:00PM
				This course is designed to provide students an introduction to legal reasoning and analysis. Content distinguishes forms of business, civil versus criminal law, and agency principles; intellectual property concepts, contract Law, the UCC (Uniform Commercial Code) and consumer protection are explored and discussed in the context of assigned legal cases which are intended to develop a student's ability to analyze and apply law. Pre/co-requisite: 660.105 Intro to Business. No Audits			
EN.660.308	02	S		Business Law I <i>Staff</i>	3.00	35	T 6:15-9:00PM

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EN.660.310	01	H		Case Studies in Business Ethics <i>Franceschini, Mark</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. Prerequisite: 660.105 Introduction to Business. Not open to students who have taken 660.231 Case Studies in Business Ethics. No audits.	3.00	30	M 6:15-9:00PM
EN.660.311	01	S		Law and the Internet <i>Sandhaus, Douglas</i> Sometimes called "Cyber law," this course uses the case study method to examine some of the most significant and compelling legal aspects, issues, and concerns involved with operating a business enterprise in an Internet environment. Some of the issues likely to be covered include jurisdiction, resolution of online disputes, trademarks, copyright, licenses, privacy, defamation, obscenity, the application of traditional concepts of tort liability to an Internet context, computer crime, information security, taxation, international considerations, and an analysis of other recent litigation and/or statutes. Prerequisite: 660.205/660.308 Business Law I. Note: not open to students who have taken 660.306 Law and the Internet. No audits.	3.00	30	T 6:15-9:00PM
EN.660.332	01	S	W	Leadership Theory <i>Smedick, William D</i> Students will be introduced to the history of Leadership Theory from the "Great Man" theory of born leaders to Transformational Leadership theory of non-positional learned leadership. Transformational Leadership theory postulates that leadership can be learned and enhanced. The course will explore the knowledge base and skills necessary to be an effective leader in a variety of settings. Students will assess their personal leadership qualities and develop a plan to enhance their leadership potential. Recommended prerequisite: 660.105 Introduction to Business or 660.220/340 Principles of Management. No audits.	3.00	30	MWF 12:00-12:50PM
EN.660.333	01		W	Leading Change <i>Rice, Eric</i>	3.00	24	TTh 12:00-1:15PM

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				In this course, we will use a combination of presentation, discussion, experiential learning, research and self-reflection to investigate issues surrounding leadership and change in communities and the economy. While considering both for-profit and non-profit entities, we will pursue topics including understanding and using theories of change; finding competitive advantage and creating strategic plans; making decisions, even in uncertain times; valuing differences; employing leadership styles; giving and receiving feedback; understanding employee relations; creating performance measures; and developing organizational cultures; and using the dynamics of influence. Not open to students who have taken 660.235 Leading Change. Recommended prerequisite: 660.105 Introduction to Business. No audits.			
EN.660.335	01			Negotiation/Conflict <i>Rice, Eric</i>	3.00	24	T 3:00-5:45PM
				The focus of this class is the nature and practice of conflict resolution and negotiation within and between organizations. The primary format for learning in this class will be structured experimental exercises designed to expose students to different aspects of negotiation and to build tangible skills through interpersonal exchange. While some class time will be devoted to presentations on theories and approaches, the class method primarily relies on feedback from fellow classmates on their observations of negotiation situations and on personal reflections by students after each structured experience. Topics include conflict style, salary, negotiation, and group conflict. Recommended prerequisite: 660.105 Introduction to Business, or another course in the Entrepreneurship and Management Program or in the social sciences. No audits.			
EN.660.337	01			Dead Leaders Society: Historical Perspectives on Leadership <i>Crane, Donna L</i>	3.00	30	TTTh 3:00-4:15PM
				Students will analyze how the political, economic, cultural and social contexts of prior centuries shaped the styles and effectiveness of its leadership. Some giants of history like Cleopatra, Eleanor of Aquitaine, King Richard the Lionhearted, Elizabeth I, Winston Churchill and Abraham Lincoln will be analyzed for their contributions to their own era's as well as modern concepts of leadership. In addition, lesser-known leaders such as Katherine Swynford, Mary Anning and Elizabeth Philpot, Llywelyn ab Gruffydd and Simon de Montfort will be analyzed for their contributions to modern leadership behaviors, styles and effectiveness. Prerequisite: 660.332 Leadership Theory or 660.331 Leadership in Teams. No audits.			
EN.660.340	01			Principles of Management <i>Reiter, Joshua</i>	3.00	35	M 1:30-4:15PM

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				<p>This course introduces the student to the management process. The course takes an integrated approach to management by examining the role of the manager from a traditional and contemporary perspective while applying decision-making and critical-thinking skills to the challenges facing managers in today's globally diverse environment. The course examines the techniques for controlling, planning, organizing resources and leading the workforce. Not open to students who have taken 660.220 Principles of Management. Prerequisite: 660.105 Introduction to Business. No audits.</p>			
EN.660.351	01	S		<p>Product and Brand Marketing <i>Crane, Donna L</i></p> <p>Consumers love those little bits of crunchy orange goodness called Cheetos®. But when Frito-Lay decided that consumers might also like Cheetos®-flavored lip balm, they reacted with a hailstorm of derision. This may be proof that our free market economy is just a rudderless, if hilarious, contraption. More likely, Cheetos® Lip Balm was an example of the challenges marketers face in product and brand management. This course is a conceptual and practical exploration of how marketers deliver products and build brands that translate into competitive advantage for their companies. Among the critical concepts typically addressed in the course are developing and positioning a brand, assembling the marketing mix media into a whole, establishing price, creating packaging, and tracking the customer experience. The course uses readings, lecture, exercises, cases and examples to explore these concepts. Prerequisite: 660.250 Principles of Marketing. No audits.</p>	3.00	30	TTh 1:30-2:45PM
EN.660.355	01			<p>Sports Marketing <i>Kendrick, Leslie</i></p> <p>This course will allow students to apply marketing principles and concepts to the sports marketing environment while gaining an understanding of how event sponsorships, endorsements, licensing and naming rights are used to achieve business objectives. Through case studies and a group project, students will be exposed to a broad range of sports entities including professional sports teams, governing organizations and sports media. Prerequisite: 660.250 Principles of Marketing.</p>	3.00	35	TTh 12:00-1:15PM

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EN.660.357	01			Copywriting and Creative Strategy <i>Quesenberry, Keith</i> Uncover the process of creative thinking for innovation and conceiving "big ideas" in marketing. Students will be exposed to creative theory and practice as they select a consumer product and determine strategic market positioning, target demographics, media vehicles and creative guidelines. Then students will learn the craft of advertising copywriting for print, broadcast and digital media as they develop finished creative executions for the chosen organization that all build to a complete integrated marketing campaign. Prerequisite: 660.250 Principles of Marketing. Co-listed with 661.357. No audits.	3.00	12	TTh 12:00-1:15PM
EN.660.358	01			International Marketing <i>Kendrick, Leslie</i> This course covers product, pricing, promotion, distribution, market research, organization and implementation and control policies relating to international marketing. It also explores the economic, cultural, political and legal aspects of international marketing. Through interactive and application-oriented assignments and cases, students will gain hands-on experience in analyzing and developing marketing strategies for organizations that market both consumer and business products/services internationally. A group project will involve the development of an international marketing plan for a specific product. One or more local international marketers will be invited to speak to the class. Prerequisite: 660.250 Principles of Marketing. No audits.	3.00	35	TTh 1:30-2:45PM
EN.660.404	01	S		Business Law II <i>Fisher, David</i> Building on the material from Business Law I, topics examined include entrepreneurship, business entities and business formation, principles of agency, real property, personal property, bailments, bankruptcy, secured transactions, employment discrimination, business financing, investor protection, antitrust and environmental law. Prerequisite: 660.308 or 660.205 Business Law I. Not open to students who have taken 660.206 or 660.307 Business Law II. No audits	3.00	35	T 6:15-9:00PM
EN.660.414	01			Financial Statement Analysis <i>Leps, Annette</i>	3.00	30	TTh 12:00-1:15PM

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				<p>This course is designed to increase a student's ability to read and interpret financial statements and related information under both GAAP and IFRS (International Financial Reporting Standards). In addition to a review of the basic financial statements and accounting principles, the course will use industry and ratio analysis in addition to benchmarking and modeling techniques to encourage students to think in a more creative way when analyzing historic information or when forecasting financial statements. Students will assess firm profitability and risk, value assets and use spreadsheet models for financial forecasting and decision making. Prerequisite: 660.203 Financial Accounting. Not open to students who have taken 660.304 Financial Statement Analysis. No audits.</p>			
EN.660.453	01			<p>Social Media Marketing <i>Quesenberry, Keith</i> (course title changed 9/2010; formerly Communicating, Marketing, and Working on the Web, though never actually offered with this title) This course explores strategies for monitoring and engaging consumers in digital media. Students will gain practical knowledge about developing, implementing and measuring social media marketing campaigns. They will learn how to analyze what consumers are saying and connect with them by leveraging word of mouth, viral and buzz marketing through sites like Facebook, Twitter and YouTube. A series of assignments build upon each other toward a final social media marketing plan for a selected consumer product or service. Prerequisite: 660.250 Principles of Marketing. Co-listed with 661.453. No audits.</p>	3.00	20	TTh 1:30-2:45PM
EN.660.460	01			<p>Entrepreneurship <i>Rice, Eric</i> This course provides students with a solid introduction to the entrepreneurial process of creating new businesses. Students will gain an appreciation for the investors' perspective in assessing opportunities, evaluating strategies, and valuing the new enterprise. The course will cover the principal components of building a successful venture including management, market analysis, intellectual property protection, legal and regulatory issues, operations, entrepreneurial financing, and the role of the capital markets. Course work will include case studies and creation of investor marketing materials. Prerequisite: 660.105 Intro to Business or 660.250 Principles of Marketing, junior or senior standing. No audits.</p>	3.00	25	MW 12:00-1:15PM

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EN.660.461	01	E		Engineering Business and Management <i>Izenberg, Illysa B</i> An introduction to the business and management aspects of the engineering profession, project management, prioritization of resource allocation, intellectual property protection, management of technical projects, and product/production management. Cross-listed with Mechanical Engineering. Recommended prerequisite: 660.105 Introduction to Business. No audits.	3.00	23	TTh 9:00-10:15AM
EN.660.461	02	E		Engineering Business and Management	3.00	25	TTh 10:30-11:45AM
EN.660.461	03	E		Engineering Business and Management <i>Agronin, Michael</i>	3.00		M 6:15-9:00PM

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General Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.500.101	01	E		What Is Engineering? <i>Karweit, Michael</i> Freshmen only or Perm. Req'd. This is a course of lectures, laboratories, and special projects. Its objective is to introduce students not only to different fields of engineering but also to the analytic tools and techniques that the profession uses. Assignments include hands-on and virtual experiments, oral presentations of product design, and design/construction/testing of structures	3.00	35	TTh 1:30-3:20PM
EN.500.125	01	E		Spatial Reasoning and Visualization for Engineers <i>Ferrara, Katrina JoAnn</i> This course will enhance students ability to imagine and mentally manipulate objects in three-dimensional space---a talent that is important in engineering. Through guided practice and fun hands-on activities, students will hone their spatial skills. This course is intended for engineering freshmen. Registration is by special invitation only, based on the results of the summer spatial reasoning diagnostic assessment. S/U only.	1.00	30	W 4:30-6:00PM
EN.500.200	01	EQ		Computing for Eng & Sci <i>Karweit, Michael</i> Prereq: 110.109 Section 01 is for Juniors and Seniors Only; Section 02 is for Sophmores Only. This course introduces a variety of techniques for solving problems in engineering and science on a computer using MATLAB. Topics include structure and operation of a computer, the programming language MATLAB, computational mathematics, and elementary numerical analysis.	3.00	25	TTh 10:30-11:50AM
EN.500.200	02	EQ		Computing for Eng & Sci	3.00	25	TTh 10:30-11:50AM
EN.500.401	01			Research Laboratory Safety <i>Kuespert, Daniel</i> An introduction to laboratory safety including chemical, biological, radiation, and physical hazards. Includes information on hazard assessment techniques, laboratory emergencies, and general lab standards for Whiting School of Engineering. The class will feature hands-on exercises with real-life experiments. Intended for students who have not yet begun working in a research laboratory.	1.00	50	M 1:30-2:45PM
EN.500.401	02			Research Laboratory Safety	1.00	50	M 3:00-4:15PM
EN.670.495	01	EN		Animation in Nanotechnology & Medicine <i>Searson, Peter C</i>	3.00	10	TBA

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Geography & Environmental Engineering

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AS.195.477	01	S	W	Intro To Urban Policy <i>Newman, Sandra J</i> Perm. Req'd. 195.477 & 195.478 must be taken together by undergraduates Cross-listed with Political Science, Sociology, Public Health Studies, and Geography and Environmental Engineering	3.00	15	T 5:00-6:50PM
AS.195.478	01		W	Urban Policy Internship <i>Newman, Sandra J</i> 195.478 & 195.477 must be taken together by undergraduates Cross-listed with Political Science, Sociology, Public Health Studies, and Geography and Environmental Engineering	3.00	15	None
AS.270.205	01	EN		Intro to Geographic Information Systems and Geospatial Analysis <i>Hellen, Stephen William</i> The course provides a broad introduction to the principles and practice of Geographic Information Systems (GIS) and related tools of Geospatial Analysis. Topics will include history of GIS, GIS data structures, data acquisition and merging, database management, spatial analysis, and GIS applications. In addition, students will get hands-on experience working with GIS software. Cross-listed with DOGEE	3.00	25	MW 3:00-4:15PM
AS.280.335	01	N		The Environment and Your Health <i>Trush, Michael A</i> This course surveys the basic concepts underlying environmental health sciences (toxicology, exposure assessment, risk assessment), current public health issues (hazardous waste, water- and food - borne diseases) and emerging global health threats (global warming, built environment, ozone depletion, sustainability). Cross-listed with Earth and Planetary Sciences and Geography and Environmental Engineering – PHS, GECS, and EPS majors have 1st priority for enrollment. Your enrollment may be withdrawn at the discretion of the instructor if you are not a GECS, PHS, or EPS major.	3.00	200	TTh 4:30-5:45PM
EN.570.108	01	E		Intro Environmental Eng <i>Alavi, Hedy V</i> Overview of environmental engineering including water/air quality issues, water supply/wastewater treatment, hazardous/solid waste management, pollution prevention, global environmental issues, public health considerations/environmental laws, regulations and ethics. Cross listed with Public Health Studies	3.00	70	TTh 12:00-1:15PM
EN.570.205	01	N		Ecology <i>Brush, Grace S</i> Introduction to processes governing the organization of individual organisms into populations, communities, and ecosystems. Interactions between individual organisms, groups of organisms, and the environment, including adaptation, natural selection, competition.	3.00	50	MWF 11:00-11:50AM

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EN.570.301	01	EN		Environmental Engineering Fundamentals I <i>Chen, Kai Loon</i> Fundamentals and applications of physical and chemical processes in the natural environment and engineered systems. This class will cover material balances, chemical equilibrium, chemical kinetics, vapor pressure, dissolution, sorption, acid-base reactions, transport phenomena, reactor design, water quality, and environmental implications of nanotechnology.	3.00	50	MWF 1:30-2:20PM
EN.570.305	01	EQ		Enviro Eng Systems Design <i>Ellis, Joseph Hugh</i> Techniques from systems analysis applied to environmental engineering design and management problems: reservoir management, power plant siting, nuclear waste management, air pollution control, and transportation planning. Design projects are required.	4.00	30	TTh 10:30-11:45AM
EN.570.320	01	ES		Topics on Appropriate and Sustainable Technology for Developing Communities <i>Ball, William P</i> Lectures, readings and discussions on general and location-specific issues related to collaborative student projects about appropriate technology-based interventions. Focus is on improving student understanding about some of the environmental, social, health, and economic issues relevant to the development of sustainable technical interventions for under-developed communities and about the role of engineers in designing, planning, implementing, and evaluating such interventions.	1.00	20	T 4:30-5:30PM
EN.570.321	01	ES		Practicum on Appropriate and Sustainable Technology for Developing Communities <i>Ball, William P</i> Permission required Academic and practical support for students working on engineering projects in developing countries. Readings and discussions on general and location-specific issues related to collaborative student projects about appropriate technology-based interventions.	2.00	15	M 2:30-4:00PM
EN.570.334	01	QS		Engineering Microecon <i>Norman, Catherine S</i> Prereq: 2 semesters of Calculus. This course uses a calculus-based approach to introduce principles of engineering economics and microeconomics (demand and production theory) and their uses in engineering decision making.	3.00	30	TTh 9:00-10:15AM
EN.570.334	02	QS		Engineering Microecon <i>Hobbs, Benjamin F</i>	3.00	20	Th 3:00-4:50PM; F 3:00-3:50PM

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EN.570.353	01	S		Hydrology <i>Hilpert, Markus</i> The occurrence, distribution, movement, and properties of the waters of the Earth. Topics include precipitation, infiltration, evaporation, transpiration, groundwater, and streamflow. Analyzes include the frequency of floods and droughts, time-series analyzes, flood routing, and hydrologic synthesis and simulation. Prereq: Differential equations, fluid mechanics.	3.00	35	TTh 1:30-2:45PM
EN.570.403	01	N	W	Ecology <i>Brush, Grace S</i> This is a graduate level of 570.205; Additional Writing Requirements	3.00	50	MWF 11:00-11:50AM
EN.570.406	01	HS	W	Environmental History <i>Schoenberger, Erica</i> Environmental history explores the interactions between social change and environmental transformation, or the ways in which societies modify landscapes and are themselves affected by geological, climatological and changing ecological conditions. Topics include the relationship between climate change and human evolution, the environmental impacts of market-based commodity production and regional economic specialization; the relationship between urbanization and environmental change; how warfare affects and is affected by environmental conditions.	3.00	25	F 1:00-3:50PM
EN.570.411	01	EN		Engineering Microbiology <i>Bouwer, Edward J</i> Fundamental aspects of microbiology and biochemistry as related to environmental pollution and water quality control processes, biogeochemical cycles, microbiological ecology, energetics and kinetics of microbial growth, and biological fate of pollutants.	4.00	30	TTh 9:00-10:15AM; Th 2:00-4:50PM; Th 6:00-8:50PM
EN.570.419	01	E		Environ Eng Design I <i>Bouwer, Edward J</i> Through general lectures and case study examples, this course will expose students to some of the non-technical professional issues that they will face as professional engineers and in their second-semester senior design project.	2.00	40	T 4:30-6:30PM
EN.570.428	01	S	W	Problems in Applied Economics <i>Hanke, Steve H</i> Prerequisites 180.101-102 – Permission Required. This is a research course with an internship component. The research component is presented during a weekly (1 hour) seminar. It focuses on the development and application of the Hanke-Guttridge valuation model. Students apply the model to value publically traded companies. The internship component is given in conjunction with private businesses and financial institutions, governmental entities, and economic research institutes.	3.00	29	TBA
EN.570.442	01	EN		Enviro Organic Chemistry <i>Roberts, A Lynn</i>	3.00	20	TTh 10:30-11:45AM

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				Prereq: 030.104 or Perm. Req'd. Advanced undergraduate/graduate course focusing on examination of processes that affect the behavior and fate of anthropogenic organic contaminants in aquatic environments. Students learn to predict chemical properties influencing transfers between hydrophobic organic chemicals, air, water, sediments, and biota, based on a fundamental understanding of intermolecular interactions and thermodynamic principles.			
EN.570.443	01	EN		Aquatic Chemistry <i>Stone, Alan T</i>	3.00	60	MWF 12:00-12:50PM
				Prereq: One year of both Chemistry and Calculus. Equilibrium speciation of natural waters, biofluids, and engineered systems. Electrolyte solutions, acids and bases, complex formation, precipitation and dissolution, oxidation and reduction.			
EN.570.445	01	E		Phys/Chem Processes I <i>Ball, William P</i>	3.00	30	MWF 9:00-9:50AM
				Prereq: 570.301-302 or permission of the instructor. The application of basic physical and chemical concepts to the analysis of environmental engineering problems. Principles of chemical equilibrium and reaction, reaction engineering, interphase mass transfer, and adsorption are presented in the context of process design for unit operations in common use for water and wastewater treatment. Topics addressed include mass balances, hydraulic characteristics of reactors, reaction kinetics and reactor design, gas transfer processes (including both fundamentals of mass transfer and design analysis), and adsorption processes (including both fundamentals of adsorption and design analysis).			
EN.570.470	01	S	W	Applied Econ & Finance <i>Hanke, Steve H</i>	3.00	15	TBA
				Permission Required. This course brings the general principles of economic theory to bear upon particular problems. These will include micro, macro and international problems in the fields of economics and finance. Problems from both the private and public sectors will be addressed.			
EN.570.487	01	S		Futures Market Research <i>Hanke, Steve H</i>	3.00	10	TBA
				Permission Required. This course investigates the workings of financial and commodity futures markets. Research is focused on price behavior, speculation, and hedging in futures markets. A research paper is required.			

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Geography & Environmental Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.570.490	01	E		Solid Waste Engineering and Management <i>Alavi, Hedy V</i> This course covers advanced engineering and scientific concepts and principles applied to the management of municipal solid waste (MSW) to protect human health and the environment and the conservation of limited resources through resource recovery and recycling of waste material.	3.00	40	Th 2:00-5:00PM
EN.570.492	01			Department Seminar - Undergraduates <i>Chen, Kai Loon</i> Undergraduates only with permission of instructor	1.00	40	T 3:00-4:50PM
EN.570.493	01	QS		Economic Foundations For Public Decision Making <i>Norman, Catherine S</i> Prereqs: 180.101-102, 110.202 or equivalent, 2 semesters of calculus. This course includes an exposition of intermediate level price theory, combined with a survey of applications to the analysis of public sector decisions. Theoretical topics include demand, supply, the function and behavior of the market, and introductory welfare economics.	3.00	20	TTh 9:00-10:15AM
EN.570.495	01	EQ		Mathematical Foundations For Public Decision Making <i>Hobbs, Benjamin F</i> Prereq: Calculus I & II A collection of systems analytic techniques which are frequently used in the study of public decision making is presented. Emphasis is on mathematical programming techniques. Primarily linear programming, integer and mixed-integer programming, and multiobjective programming.	3.00	40	TTh 10:30-11:45AM
EN.570.497	01	EQ	W	Risk and Decision Analysis <i>Guikema, Seth</i> Prereq: Intro. Statistics This course introduces the methods of probabilistic risk and decision analysis. Topics will include risks in daily life, public attitudes towards risk, fault trees, event trees, decision trees, utility functions, risk attitude, and value of information calculations.	3.00	40	W 6:30-9:10PM

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Information Security Institute

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.600.415	01	E		Databases <i>Yarowsky, David</i> Graduate level version of 600.315. Students may receive credit for 600.315 or 600.415, but not both. [Systems] (www.cs.jhu.edu/~yarowsky/cs415.html) Prereq: 600.226.	3.00	40	TTh 3:00-4:15PM
EN.600.421	01	E		Object Oriented Software Engineering <i>Smith, Scott F</i> Graduate level version of 600.321. Students may receive credit for 600.321 or 600.421, but not both. [Systems or Applications] (http://pl.cs.jhu.edu/oose/index.shtml) Prereq: 600.226 and 600.120/121.	3.00	40	MW 1:30-2:45PM
EN.600.433	01	E		Computer Systems <i>Froehlich, Peter</i> Graduate version of 600.333. Students may receive credit for 600.333 or 600.433, but not both. [Systems]	3.00	20	MWF 10:00-10:50AM
EN.600.442	01	EQ		Modern Cryptography <i>Pappacena, Christopher J</i> Prerequisite: 600.226 and a 300-level or above systems course; 600.271/471 and 550.171 or equivalent. This course focuses on cryptographic algorithms, formal definitions, hardness assumptions, and proofs of security. Topics include number-theoretic problems, pseudo-randomness, block and stream ciphers, public-key cryptography, message authentication codes, and digital signatures. [Analysis]	3.00	20	T 4:30-7:15PM
EN.600.443	01	E		Security & Privacy in Computing <i>Rubin, Aviel D</i> Lecture topics will include computer security, network security, basic cryptography, system design methodology, and privacy. There will be a heavy work load, including written homework, programming assignments, exams and a comprehensive final. The class will also include a semester-long project that will be done in teams and will include a presentation by each group to the class. [Applications] Prerequisite: A basic course in operating systems and networking, or permission of instructor.	3.00	45	MW 1:30-2:45PM
EN.600.463	01	EQ		Algorithms I <i>Braverman, Vladimir</i> Graduate version of 600.363. Students may receive credit for 600.363 or 600.463, but not both. Prereq: 600.226 or Perm. req'd.	3.00	30	TTh 9:00-10:15AM
EN.600.471	01	EQ		Theory of Computation <i>Variyam, Vinodchandran</i>	3.00	40	TTh 12:00-1:15PM

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

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
EN.650.445	01			Practical Cryptographic Systems <i>Green, Matthew</i> This semester long course will teach skill of how cryptographic systems work and fail - as part of a complete hardware and software system. The skills will be taught by examples I.e., by studying and identifying flows in widely deployed crypto systems. We will place a particular emphasis on the failure of "security by obscurity" and the feasibility of reverse-engineering undocumented crypto systems. Co-listed with 600.454	3.00	40	MW 3:00-4:15PM
EN.650.457	01	E		Computer Forensics <i>Casey, Eoghan</i> This course introduces students to the field of computer forensics and it will focus on the various contemporary policy issues and applied technologies. Topics to be covered include: legal and regulatory issues, investigation techniques, data analysis approaches, and incident response procedures for Windows and UNIX systems. Homework in this course will relate to laboratory assignments and research exercises. Students should also expect that a group project will be integrated into this course.	3.00	25	Th 6:00-9:30PM

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Institute for NanoBio Technology

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

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Materials Science & Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.171.321	01	EN		Introduction to Space Science and Technology <i>Moos, Henry Warren</i> Topics include space astronomy, remote observing of the earth, space physics, planetary exploration, human space flight, space environment, orbits, propulsion, spacecraft design, attitude control and communication. Crosslisted by Departments of Earth and Planetary Sciences, Materials Science and Engineering and Mechanical Engineering. Prerequisites: Physics 171.101-102 or similar; Calculus 110.108-109. 3 credits.	3.00	42	TTh 12:00-1:15PM
EN.510.101	01	N		Introduction to Materials Chemistry <i>Mcguiggan, Patricia</i> Basic principles of chemistry and how they apply to the behavior of materials in the solid state. The relationship between electronic structure, chemical bonding, and crystal structure is developed. Attention is given to characterization of atomic and molecular arrangements in crystalline and amorphous solids: metals, ceramics, semiconductors, and polymers (including proteins). Examples are drawn from industrial practice (including the environmental impact of chemical processes), from energy generation and storage (such as batteries and fuel cells), and from emerging technologies (such as biomaterials).	3.00	75	MWF 9:00-9:50AM
EN.510.109	01	EN		Materials Science & Engineering for the 21st Century <i>Wilson, Orla</i> Design an airplane, a heart valve, a smartphone, or a product that doesn't even exist – what material will you choose to make it? For most engineers, the answer is simple: Here are materials found in nature and transformed by industry; there are their macroscopic properties, tabulated on the internet. Add some practical engineering experience along with a nod to economics and the choice is made. Sadly, this process is devoid of the soaring imagination of the possible – new materials with superior performance allow for stunning advances in our everyday lives. We now enjoy the ability to literally design and build materials and devices to order. We can produce materials with prescribed and, sometimes, exotic properties. We can understand their limitations and effectively evolve them more rapidly than ever before. Through this course, students are introduced to the basic tenants of the field and important aspects of career development. Discussions will cover the range of career options in the field, the opportunities to engage with cutting edge research and technology at JHU, the skills that practitioners require and the ethical conundrums that engineering professionals navigate. Pre-requisites – Only available to Materials Science & Engineering freshman and Engineering undecided freshman.	1.00	20	M 12:00-12:50PM
EN.510.311	01	EN		Structure of Materials	3.00	45	MWF 10:00-10:50AM

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Materials Science & Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Hufnagel, Todd Clayton</i> First of the Introduction to Materials Science series, this course seeks to develop an understanding of the structure of materials starting at the atomic scale and building up to macroscopic structures. Topics include bonding, crystal structures, crystalline defects, symmetry and crystallography, microstructure, liquids and amorphous solids, diffraction, molecular solids and polymers, liquid crystals, amphiphilic materials, and colloids. Prerequisites: Calculus I, freshman/sophomore chemistry and physics, or permission of instructor.			
EN.510.312	01	EN		Thermodynamics/Materials <i>Ma, En</i> Second of the Introduction to Materials Science series, this course examines the principles of thermodynamics as they apply to materials. Topics include fundamental principles of thermodynamics, equilibrium in homogeneous and heterogeneous systems, thermodynamics of multicomponent systems, phase diagrams, thermodynamics of defects, and elementary statistical thermodynamics. Prerequisites: Calculus I and II, freshman/ sophomore chemistry and physics, or permission of instructor.	3.00	45	MWF 11:00-11:50AM
EN.510.316	01	EN		Biomaterials I <i>Mao, Hai-Quan</i> Sixth of the Introduction to Materials Science series, this course offers an overview of principles and properties of biomedical materials. Topics include properties of materials used in medicine, synthesis and properties of polymeric materials, polymeric biomaterials, natural and recombinant biomaterials, biodegradable materials, hydrogels, stimuli-sensitive materials, and characterizations of biomaterials. Prerequisites: Organic Chemistry I, Organic Chemistry Lab I	3.00	93	MWF 11:00-11:50AM
EN.510.403	01	N		Materials Characterization <i>Mcguiggan, Patricia</i> This course will describe a variety of techniques used to characterize the structure and composition of engineering materials, including metals, ceramics, polymers, composites and semiconductors. The emphasis will be on microstructural characterization techniques, including optical and electron microscopy, X-ray diffraction, and acoustic microscopy. Surface analytical techniques, including Auger electron spectroscopy, secondary ion mass spectroscopy, X-ray photoelectron spectroscopy, and Rutherford backscattering spectroscopy. Real-world examples of materials characterization will be presented throughout the course, including characterization of thin films, surfaces, interfaces, and single crystals.	3.00	25	TTh 1:30-2:45PM
EN.510.415	01	EN		The Chemistry of Materials Synthesis <i>Katz, Howard E</i>	3.00	25	TTh 3:00-4:15PM

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Materials Science & Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<p>Many of the latest breakthroughs in materials science and engineering have been driven by new approaches to their synthesis, which has allowed the preparation of materials with fanciful structures and fascinating properties. This advanced course will explore synthetic approaches to multifunctional and nanostructured materials, ranging from opals to complex polymers to nanowires and quantum dots. Applications include electronics, energetics, and drug delivery. Participants will gain sufficient familiarity with synthesis options to be able to design research programs that rely on them. Emphasis will be placed on broad strategies that lead to material functionality, rather than detailed step-by-step sequences. Some topics will be selected "on the fly" from the most exciting current literature. Prerequisites: 030.205 Organic Chemistry I, and 510.312 or equivalent thermodynamics course.</p>			
EN.510.418	01	EN		<p>Electronic and Photonic Processes and Devices <i>Poehler, Theodore O</i></p> <p>This course is intended for advanced undergraduates and graduate students and will cover the fundamentals and properties of electronic and optical materials and devices. Subject matter will include a detailed and comprehensive discussion of the physical processes underlying modern electronic and optical devices. Detailed descriptions of modern semiconductor devices such as lasers and detectors used in optical communications and information storage and processing will be presented. Also listed as 510.618/418.</p>	3.00	25	TTh 9:00-10:15AM
EN.510.420	01	EN		<p>Stealth Science & Engineering <i>Spicer, James</i></p> <p>The goal of stealth engineering is the creation of objects that are not easily detected using remote sensing techniques. To achieve this end, engineered systems of materials are arrayed to alter the signature of objects by reducing energy returned to remote observers. This course will provide an introduction to the general principles behind signature reduction by examining the mathematics and science behind basic electromagnetic and acoustic transport processes. Specific topics will include energy absorbing materials, anti-reflection coatings, wave guiding and scattering, metamaterials and adaptive screens. Pre-requisites: 110.201, 110.302, 510.313 and 510.314.</p>	3.00	25	TTh 1:30-2:45PM
EN.510.421	01	EN		<p>Nanoparticles <i>Wilson, Orla</i></p> <p>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.</p>	3.00	25	MWF 10:00-10:50AM

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Materials Science & Engineering

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

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Mechanical Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
AS.171.321	01	EN		Introduction to Space Science and Technology <i>Moos, Henry Warren</i> Topics include space astronomy, remote observing of the earth, space physics, planetary exploration, human space flight, space environment, orbits, propulsion, spacecraft design, attitude control and communication. Crosslisted by Departments of Earth and Planetary Sciences, Materials Science and Engineering and Mechanical Engineering. Prerequisites: Physics 171.101-102 or similar; Calculus 110.108-109. 3 credits.	3.00	42	TTh 12:00-1:15PM
EN.530.101	01	E		Freshman Experiences in Mechanical Engineering <i>Marra, Steven P</i> Mechanical Engineering, Engineering Mechanics, Undecided Engineering Majors, or with permission of instructor. An overview of the field of mechanical engineering along with topics that will be useful throughout the mechanical engineering program. This is the first half of a one-year course that includes applications of mechanics, elementary numerical analysis, programming in MatLab, use of computer data acquisition, analysis, design, and visualization; technical drawing, the design process and creativity, report preparation, teamwork, and engineering ethics.	2.00	75	MW 1:30-2:20PM
EN.530.103	01	EN		Introduction to Mechanics I <i>Thomas, John A</i> Mechanical Engineering, Engineering Mechanics, Undecided Engineering Majors, or with permission of instructor. This is the first half of a one-year course offering in-depth study of elements of mechanics, including linear statics and dynamics, rotational statics and dynamics, thermodynamics, fluids, continuum mechanics, transport, oscillations, and waves. This is an alternate to 171.101, designed specifically for Mechanical Engineering and Engineering Mechanics students taking 530.101 concurrently.	2.00	60	WF 3:00-3:50PM
EN.530.105	01	E		Mechanical Engineering Freshman Lab I <i>Marra, Steven P</i> Hands-on laboratory complementing 530.101 and 530.103, including experiments, mechanical dissections, and design experiences distributed throughout the year. Experiments are designed to give student background in experimental techniques as well as to reinforce physical principles. Mechanical dissections connect physical principles to practical engineering applications. Design projects allow students to synthesize working systems by combining mechanics knowledge and practical engineering skills.	1.00	18	Th 9:00-11:50AM
EN.530.105	02	E		Mechanical Engineering Freshman Lab I	1.00	18	Th 12:00-2:50PM
EN.530.105	03	E		Mechanical Engineering Freshman Lab I	1.00	18	Th 3:00-5:50PM
EN.530.105	04	E		Mechanical Engineering Freshman Lab I	1.00	18	F 12:00-2:50PM
EN.530.201	01	E		Statics & Mechanics of Materials <i>Igusa, Takeru</i>	4.00	16	TTh 10:30-11:45AM; M 4:00-5:50PM

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Mechanical Engineering

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

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Mechanical Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Prereq: ME Majors: 530.215, 530.327 EM & BME Majors: 530.215 or 530.405, and 530.327			
				This senior year "capstone design" course is intended to give some practice and experience in the art of engineering design. Students working in teams of two to four will select a small-scale, industry-suggested design problem in the area of small production equipment, light machinery products, or manufacturing systems and methods. A solution to the problem is devised and constructed by the student group within limited time and cost boundaries. Preliminary oral reports of the proposed solution are presented at the end of the first semester. A final device, product, system, or method is presented orally and in writing at the end of the second semester. Facilities of the Engineering Design Laboratory (including machine shop time) and a specified amount of money are allocated to each student design team for purchases of parts, supplies, and machine shop time where needed.			
EN.530.405	01	EN		Mechanics of Solids and Structures <i>El-Awady, Jaafar</i>	3.00	25	MWF 11:00-11:50AM
				This course provides an introduction to the mathematical and theoretical foundations of the mechanics of solids and structures. We will begin with the mathematical preliminaries used in continuum mechanics: vector and tensor calculus, then introduce kinematics and strain measures, descriptions of stress in a body, frame indifference, conservation laws: mass, momentum, energy balance, and entropy. These concepts will be applied to develop the constitutive equations for solids and fluids, methods for solving boundary values problems that occur in engineering structures, energy methods and foundations of the finite element method.			
EN.530.414	01	E		Computer-Aided Design <i>Stoianovici, Dan</i>	3.00	21	Th 1:30-4:20PM
				The course outlines a modern design platform for 3D modeling, analysis, simulation, and manufacturing of mechanical systems using the "Pro/E" package by PTC. The package includes the following components: • Pro/ENGINEER: is the kernel of the design process, spanning the entire product development, from creative concept through detailed product definition to serviceability. • Pro/MECHANICA: is the main analysis and simulation component for kinematic, dynamic, structural, thermal and durability performance. • Pro/NC: is a numeric-control manufacturing package. This component provides NC programming capabilities and tool libraries. It creates programs for a large variety of CNC machine tools.			
EN.530.414	02	E		Computer-Aided Design	3.00	21	Th 4:30-7:20PM
EN.530.414	03	E		Computer-Aided Design	3.00	21	F 8:30-11:20AM
EN.530.414	04	E		Computer-Aided Design	3.00	21	F 12:00-2:50PM
EN.530.420	01	E		Robot Sensors/Actuators	4.00	15	TTh 12:00-1:15PM; W 3:00-5:50PM

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Mechanical Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Cowan, Noah J</i> Introduction to modeling and use of actuators and sensors in mechatronic design. Topics include electric motors, solenoids, micro-actuators, position sensors, and proximity sensors.			
EN.530.420	02	E		Robot Sensors/Actuators	4.00	15	TTh 12:00-1:15PM; Th 6:00-8:50PM
EN.530.420	03	E		Robot Sensors/Actuators	4.00	15	TTh 12:00-1:15PM; F 3:00-5:50PM
EN.530.420	04	E		Robot Sensors/Actuators	4.00	15	TTh 12:00-1:15PM; W 6:00-8:50PM
EN.530.451	01			Cell & Tissue Eng Lab <i>Wang, Jeff T</i> Senior and Graduate students only; others Perm. Req'd. Lab Fee: \$100 Cell and tissue engineering is a field that relies heavily on experimental techniques. This laboratory course will consist of three six experiments that will provide students with valuable hands-on experience in cell and tissue engineering. Students will learn basic cell culture procedures and specialized techniques related to faculty expertise in cell engineering, microfluidics, gene therapy, microfabrication and cell encapsulation. Experiments include the basics of cell culture techniques, gene transfection and metabolic engineering, basics of cell-substrate interactions I, cell-substrate interactions II, and cell encapsulation and gel contraction. Co-listed with 530.451	2.00	4	TF 12:00-1:50PM
EN.530.451	02			Cell & Tissue Eng Lab	2.00	4	TF 2:00-3:50PM
EN.530.454	01	E		Manufacturing Engineering <i>Ronzhes, Yury</i> An introduction to the various manufacturing processes used to produce metal and nonmetal components. Topics include casting, forming and shaping, and the various processes for material removal including computer-controlled machining. Simple joining processes and surface preparation are discussed. Economic and production aspects are considered throughout.	3.00	60	MWF 11:00-11:50AM
EN.530.467	01	E		Thermal Design Issues for Aerospace Systems <i>Herman, Cila</i> This course deals with processes, systems, instruments, and equipment for aerospace systems. Issue of energy conversion and thermal design are emphasized. Topics include thermodynamic concepts and heat transfer processes for aerospace systems (with emphasis on radiation), the space environment, influence of gravity on heat transfer, power generation for space systems (energy sources, solar cell arrays, energy storage), thermal control (analysis techniques, design procedures, active versus passive design, heating and refrigeration), environmental effects.	3.00	50	TTh 12:00-1:30PM
EN.530.495	01	EN		Microfabrication Lab <i>Andreou, Andreas</i>	4.00	4	Th 1:00-4:50PM; W 1:30-2:20PM

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Mechanical Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				Seniors only or Perm. Req'd This laboratory course is an introduction to the principles of microfabrication for microelectronics, sensors, MEMS, and other synthetic microsystems that have applications in medicine and biology. Course comprised of laboratory work and accompanying lectures that cover silicon oxidation, aluminum evaporation, photoresist deposition, photolithography, plating, etching, packaging, design and analysis CAD tools, and foundry services. Co-listed with 520.495 & 580.495			
EN.530.495	02	EN		Microfabrication Lab <i>Wang, Jeff T</i>	4.00	4	Th 5:00-8:50PM; W 1:30-2:20PM
EN.530.495	03	EN		Microfabrication Lab	4.00	4	F 8:00-11:50AM; W 1:30-2:20PM
EN.530.495	04	EN		Microfabrication Lab <i>Andreou, Andreas</i>	4.00	4	F 1:00-4:50PM; W 1:30-2:20PM
EN.530.495	05	EN		Microfabrication Lab	4.00	4	Th 8:00-11:50AM; W 1:30-2:20PM
EN.560.201	01	E		Statics/Strength of Materials <i>Igusa, Takeru</i> Prereq: 171.101 or (530.103 and 530.104) or Permission Only. Basic principles of classical mechanics applied to the equilibrium of particles and rigid bodies at rest, under the influence of various force systems. In addition, the following topics are studied: free body concept, analysis of simple structures, friction, centroids and centers of gravity, and moments of inertia. Includes laboratory experience. Co-listed with 530.201.	4.00	8	TTh 10:30-11:45AM; M 4:00-5:50PM
EN.560.201	02	E		Statics/Strength of Materials	4.00	8	TTh 10:30-11:45AM; M 6:00-7:50PM
EN.560.201	03	E		Statics/Strength of Materials	4.00	8	TTh 10:30-11:45AM; T 2:00-3:40PM
EN.560.201	04	E		Statics/Strength of Materials	4.00	8	TTh 10:30-11:45AM; T 4:00-5:50PM
EN.560.201	05	E		Statics/Strength of Materials	4.00	8	TTh 10:30-11:45AM; W 4:00-5:50PM
EN.560.201	06	E		Statics/Strength of Materials	4.00	8	TTh 10:30-11:45AM; Th 4:00-5:50PM
EN.580.451	01	EN		Cell & Tissue Eng Lab <i>Haase, Eileen B</i> Senior and Graduate students only; others Perm. Req'd. Lab Fee: \$100 Cell and tissue engineering is a field that relies heavily on experimental techniques. This laboratory course will consist of three six experiments that will provide students with valuable hands-on experience in cell and tissue engineering. Students will learn basic cell culture procedures and specialized techniques related to faculty expertise in cell engineering, microfluidics, gene therapy, microfabrication and cell encapsulation. Experiments include the basics of cell culture techniques, gene transfection and metabolic engineering, basics of cell-substrate interactions I, cell-substrate interactions II, and cell encapsulation and gel contraction. Co-listed with 530.451	2.00	8	TF 12:00-1:50PM
EN.580.451	02	EN		Cell & Tissue Eng Lab	2.00	8	TF 2:00-3:50PM
EN.660.461	01	E		Engineering Business and Management <i>Izenberg, Illysa B</i>	3.00	23	TTh 9:00-10:15AM

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Mechanical Engineering

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				An introduction to the business and management aspects of the engineering profession, project management, prioritization of resource allocation, intellectual property protection, management of technical projects, and product/production management. Cross-listed with Mechanical Engineering. Recommended prerequisite: 660.105 Introduction to Business. No audits.			
EN.660.461	02	E		Engineering Business and Management	3.00	25	TTh 10:30-11:45AM
EN.660.461	03	E		Engineering Business and Management <i>Agronin, Michael</i>	3.00		M 6:15-9:00PM

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Professional Communication

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

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				<i>Dungey, Kevin R</i>			
				This course is designed to help students push through any anxieties about public speaking by immersing them in a practice-intensive environment. They learn how to speak with confidence in a variety of formats and venues - Including extemporaneous speaking, job interviewing, leading a discussion, presenting a technical speech, and other relevant scenarios. Students learn how to develop effective slides that capture the main point with ease and clarity, hone their message, improve their delivery skills, and write thought-provoking, well-organized speeches that hold an audience's attention. No audits.			
EN.661.150	02		W	Oral Presentations	3.00	13	M 6:15-9:00PM
EN.661.150	03		W	Oral Presentations	3.00	13	T 1:30-4:15PM
				<i>Reiser, Julie</i>			
EN.661.150	04		W	Oral Presentations	3.00	13	T 5:00-7:45PM
				<i>Staff</i>			
EN.661.150	05		W	Oral Presentations	3.00	13	W 1:30-4:15PM
				<i>Sheff, Pamela</i>			
EN.661.150	06		W	Oral Presentations	3.00	13	W 5:00-7:45PM
				<i>O'Donnell, Charlotte Alyssa</i>			
EN.661.150	07		W	Oral Presentations	3.00	13	Th 1:30-4:15PM
				<i>Kulanko, Andrew</i>			
EN.661.150	08		W	Oral Presentations	3.00	13	Th 5:00-7:45PM
EN.661.151	01		W	Oral Presentations for ESL	3.00	7	TBA
				<i>Staff</i>			
				This course is designed to help students push through any anxieties about public speaking by immersing them in a practice-intensive environment. They learn how to speak with confidence in a variety of formats and venues - Including extemporaneous speaking, job interviewing, leading a discussion, presenting a technical speech, and other relevant scenarios. Students learn how to develop effective slides that capture the main point with ease and clarity, hone their message, improve their delivery skills, and write thought-provoking, well-organized speeches that hold an audience's attention.			
				Special attention will be placed on diction, pronunciation, tone, pace and emphasis of language. Additional attention also will be given to syntax as well as non-verbal communication patterns. Co-listed with 661.651. No audits.			
EN.661.315	01	S	W	The Culture of the Engineering Profession	3.00	24	TTh 10:30-11:45AM
				<i>Crane, Donna L</i>			

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Professional Communication

<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				For Engineering sophomores, juniors and seniors or by permission of instructor. This course focuses on building understanding of the culture of engineering while preparing students to communicate effectively with the various audiences with whom engineers interact. Working from a base of contemporary science writing (monographs, non-fiction, popular literature and fiction), students will engage in discussion, argument, case study and project work to investigate: the engineering culture and challenges to that culture, impacts of engineering solutions on society, ethical guidelines for the profession, and the ways engineering information is conveyed to the range of audiences for whom the information is critical. Additionally, students will master many of the techniques critical to successful communication within the engineering culture through a series of short papers and presentations associated with analysis of the writings and cases. No audits.			
EN.661.315	02	S	W	The Culture of the Engineering Profession <i>Sheff, Pamela</i>	3.00	24	TTh 12:00-1:15PM
EN.661.317	01		W	The Culture of the Medical Profession <i>Staff</i>	3.00	24	TTh 10:30-11:45AM
				For sophomores, juniors, and seniors or by permission of instructor. 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 in communication through a series of short papers and presentations associated with analysis of the writings and cases. No audits.			
EN.661.317	02		W	The Culture of the Medical Profession	3.00	24	TTh 12:00-1:15PM
EN.661.410	01	S	W	Research Writing for ESL <i>Link-Farajali, Denise</i>	3.00	5	M 6:00-8:45PM

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<u>Crse</u>	<u>Sect</u>	<u>Area</u>	<u>WI</u>	<u>Title</u>	<u>Credits</u>	<u>Limit</u>	<u>Day/Time</u>
				(This course is designed to help ESL writers succeed in writing, editing, and completing a large research project specific to their discipline. This could be a research report, journal article, literature review, dissertation chapter, grant proposal, or other relevant document. The course provided intensive help with grammar, idiomatic phrasing, and overall clarity for writers whose native language is not English. The course includes both individual consultation and group workshops. Undergraduates are required to be conducting research with a faculty member or by special permission of instructor. S/U grading only (students may elect to take this course for a traditional letter grade if their departments require them to do so; students must inform the instructor by the second week of class). Co-listed with 661.610. No audits.			
EN.661.453	01		W	Social Media and Marketing <i>Quesenberry, Keith</i> This course explores strategies for monitoring and engaging consumers in digital media. Students will gain practical knowledge about developing, implementing and measuring social media marketing campaigns. They will learn how to analyze what consumers are saying and connect with them by leveraging word of mouth, viral and buzz marketing through sites like Facebook, Twitter and YouTube. A series of assignments build upon each other toward a final social media marketing plan for a selected consumer product or service. Prerequisite: 660.250 Principles of Marketing. Co-listed with 660.453. No audits.	3.00	10	TTh 1:30-2:45PM