HAVERFORD
COLLEGE

FALL 2021 COURSE GUIDE

Even though this document is updated often, the contents within may not accurately reflect the courses offered and the number of students enrolled for the term.

For questions, please contact the Registrar's Office:
hc-registrar@haverford.edu.

Faculty-Approved Teaching Times

M	1:30 PM-4:00 PM
M	7:30 PM-10:00 PM
M F	1:00 PM-2:30 PM
M W F	8:30 AM-9:30 AM
M W F	9:30 AM-10:30 AM
M W F	10:30 AM-11:30 AM
M W F	11:30 AM-12:30 PM
M W F	1:30 PM-2:30PM
M W F	2:30 PM-3:30 PM
M W	11:30 AM-1:00 PM
M W	1:00 PM-2:30 PM
M W	2:30 PM-4:00 PM
M F	11:30 AM-1:00 PM
M F	2:30 PM-4:00 PM
T	1:30 PM-4:00 PM
T	7:30 PM-10:00 PM
T Th	8:30 AM-10:00 AM
T Th	10:00 AM-11:30 AM
T Th	11:30 AM-1:00 PM
T Th	1:00 PM-2:30 PM
T Th	2:30 PM-4:00 PM
Th	1:30 PM-4:00 PM
W	1:30 PM-4:00 PM
W F	11:30 AM-1:00 PM
W F	1:00 PM-2:30 PM
W F	2:30 PM-4:00 PM
F	1:30 PM-4:00 PM

Numbering System & Symbols

001-009 elementary courses.
100-199 first-year and introductory courses.
200-299 second-year courses.
300-399 advanced courses.
400-499 special categories of work (e.g., 480 for independent study courses).

The suffixes (following a number) indicate:

A: one-credit course given in the Fall Semester.
B: one-credit course given in the Spring Semester.
C: one-credit course given throughout the year.
D: half-credit course given during September–October.
E: half-credit course given during November–December.
F: half-credit course given throughout the first semester.
G: half-credit course given during February–March.
H: half-credit course given during April–May.
I: half-credit course given throughout the second semester.
J: half-credit course given throughout the year.

Academic Calendar

SEMESTER I (FALL 2021)	
Wednesday, August 25	First year and transfer students arrive
Saturday, August 28	Residence Halls open for returning students
Monday, August 30	Classes begin at Haverford, Bryn Mawr, and Swarthmore Registration begins
Friday, September 3	Last day to uncover Pass/Fail courses from previous semester
Monday, September 6	Labor Day – Classes not in session
Wednesday, September 8	Final academic verification at Haverford and Bryn Mawr Registration ends
Friday, September 17	Last day to request Pass/Fail, First Quarter courses only Last day to drop a credit at Haverford and Bryn Mawr
Friday, October 1	Faculty reports of concern to CSSP due Petitions to CSSP due
Friday, October 8	Last day to request Pass/Fail, Full Semester courses only Fall break begins at 4:00 p.m.
Monday, October 18	Classes resume at 8:30 a.m.
Friday, October 22	First quarter classes end
Monday, October 25	Second quarter class begin
Friday, October 29 Sunday, October 31	Family and Friends Weekend (Tentative)
Monday, November 1	Pre-Registration for spring semester begins
Wednesday, November 3	Last day to drop second quarter class
Friday, November 5	Faculty reports of concern to CSSP due Petitions to CSSP due
Friday, November 12	Last day to request Pass/Fail, second quarter courses only Pre-Registration for spring semester ends
Wednesday, November 24	Thanksgiving break begins at 4:00 p.m.
Monday, November 29	Classes resume at 8:30 a.m.
Friday, December 10	Classes end at Haverford; optional Reading Day All papers (except those in lieu of exams) due
Saturday, December 11 -	Reading Period

Sunday, December 12	
Monday, December 13- Friday, December 17	Final Examination Period
Friday, December 17	Semester ends at 12:00 noon Final examinations due at 12:00 noon
Monday, January 3	Final grades due in Registrar's Office by 12:00 noon

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
AFST	**H136A**	**Black Ecologies**								
	This course engages writings and cultural works about Black eco-literary and ecological traditions. Black Ecologies focuses on the multiple ecological and spatial conditions that have over-determined Black life and relationships to nature including the middle passage, slavery, racial segregation, food apartheid, gentrification and even incarceration. All these phenomena have produced unequal access to natural resources, space, food and land through systems that racialize, gender and commodify space. By exploring Black cultural and land based worker's literary, cultural, and community responses to anti-Black environmental conditions, we will consider how Black communities reclaim spatial autonomy through creative modes of collective liberation. Student's critical and creative writing will be based on course texts and outdoor experiences of observation and laboring collectively at Haverfarm. Open only to first-year students as assigned by the Director of College Writing.									
	Crosslisted: AFST,ENVS.									
	Attributes: Africana Studies Environmental Studies									
		2450	001	1.0	Tajah Ebram	T Th	11:30AM	1:00PM	HLL106	0
		2450	001	1.0	Tajah Ebram	T Th	11:30AM	1:00PM	HLL106	0
		2451	002	1.0	Tajah Ebram	T Th	1:00PM	2:30PM	HLL106	0
AFST	**H283A**	**African Politics, African Novels and Film**								
	The study of politics in Africa through African literature. We explore themes including colonial legacies, gender, race and ethnicity, religion and political transition as they are discussed in African literature.									
	Crosslisted: Political Science, Africana Studies									
	Prerequisite(s): One previous course in political science or instructor consent									
	Enrollment Limit: 25									
	Lottery Preference(s): Political science majors and students concentrating in African and Africana studies									
	Attributes: Social Science Africana Studies									
		2420	001	1.0	Susanna Wing	T Th	10:00AM	11:30AM	UN111	4
AFST	**H319A**	**Black Queer Saints: Sex, Gender, Race, Class and the Quest for Liberation**								
	Drawing on fiction, biography, critical theory, film, essays, and memoirs, participants will explore how certain African American artists, activists, and religionists have resisted, represented, and reinterpreted sex, sexuality, and gender norms in the context of capitalist, white supremacist, male supremacist, and heteronormative cultures.									
	Crosslisted: Africana Studies, Religion									
	Prerequisite(s): 200-level Humanities course, or instructor consent									
	Enrollment Limit: 15									
	Attributes: B: Analysis of the Social World Gender and Sexuality Studies Humanities A: Meaning, Interpretation (Texts) Africana Studies									
		2018	001	1.0	Terrance Wiley	M	7:30PM	10:00PM	UN114	18
ANTH	**H103A**	**Introduction to Anthropology**								
	An introduction to the basic ideas and methods of social anthropology. Examines major theoretical and ethnographic concerns of the discipline from its origins to the present, such as family and kinship, production and reproduction, history and evolution, symbolism and representation, with particular attention to such issues as race and racism, gender and sexuality, class, and ethnicity.									
	Prerequisite(s): Not open to students who have completed BMC ANTH 102									
	Enrollment Limit: 40									
	Attributes: B: Analysis of the Social World Social Science									
		1352	001	1.0	Zolani Noonan-Ngwane	M W	11:30AM	1:00PM	SHA410	40
ANTH	**H106A**	**Sensing Beyond the Human**								
	This course is an interdisciplinary exploration of the political, social, and historical dimensions that shape human attempts to extend their sensory capacities, usually through a proxy, delegate, or sentinel. It will examine how colonialism, race, gender, sexuality, and surveillance have shaped the human desire to perceive in extraordinary ways.									
	Pre-requisite(s): None									
	Attributes: Social Science B: Analysis of the Social World									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		2726	001	1.0	Jia Hui Lee	M W	10:00AM	11:30AM	VCAM201	5
ANTH	**H265A**	**Medical Anthropology**								
	Are our bodies, ourselves lively artifacts? How do social, cultural and political forces shape health, illness and survival as well as understandings and experiences of “the body”? This introductory course in medical anthropology approaches these questions by examining ethnographic studies and cross-comparative analyses. Topics include diverse concepts of disease etiology and healing practice; theories of embodiment and somatization; ethnomedicine, medical pluralism, and (bio)medicalization; structural violence, inequalities, and social suffering; political and moral economies of global health and medical humanitarianism; HIV/AIDS and other infectious diseases; and effects of new medical technologies on how “we” live and die.									
	Enrollment Limit: 25									
	Lottery Preference(s): 1.) Health Studies minors 2.) Anthropology majors and minors									
	Attributes: Health Studies B: Analysis of the Social World Humanities									
		1367	001	1.0	Patricia L. Kelly	T Th	1:00PM	2:30PM	UNMAC	15
ANTH	**H271A**	**The Body and Embodiment in the Middle East**								
	This course surveys anthropological and historical approaches to the body and embodiment in the Middle East, with a focus on themes of representation and power. Our aim is to read up, across, and through prisms of class, gender, and colonialism to better grasp at the stakes of politics and to question the contours and limits of the normal, the healthy, the able, and the pious.									
	Pre-requisite(s): one 100-level course in Anthropology, Political Science, Sociology, or History									
	Enrollment Limit: 25									
	Lottery Preference: Senior students									
	Attributes: Health Studies B: Analysis of the Social World Africana Studies Gender and Sexuality Studies Social Science									
		1370	001	1.0	Zainab M. Saleh	T Th	11:30AM	1:00PM	HLL112	20
ANTH	**H272A**	**The Politics of Paradise: An Anthropology of Tourism**								
	What does tourism sell? How do touristic representations of place condition our engagement with destinations, its people, and the histories they embody? This seminar explores tourism beyond vacation and pleasure to consider its implications as a model for development, nation branding, environmental protection, heritage conservation, and the commodification of traumatic histories through “dark tourism.”									
	Attributes: B: Analysis of the Social World Social Science									
		1369	001	1.0	Amber Marie Henry	M	1:30PM	4:00PM	UN111	26
ANTH	**H273A**	**Law and Anthropology: The War on Drugs**								
	This course explores anthropological approaches to the law and legal regimes, with special emphasis on the relationship between law, power and politics, social hierarchy and the institutionalization of inequality in the United States in the context of the War on Drugs. We will consider how this happens through an extended study of criminalization, punishment, mass incarceration and The War on Drugs in the United States. We will explore the effects of the criminalization system on drug users, communities, and incarcerated people themselves, and discuss the relationship between criminalization processes and other modes of social segregation and stratification.									
	Attributes: Health Studies B: Analysis of the Social World Social Science									
		2747	001	1.0	Nadja Eisenberg-Guyot	T Th	10:00AM	11:30AM	STO207	2
ANTH	**H281A**	**Introduction to Environmental Anthropology**								
	An introduction to the ideas and methods central to environmental anthropology. Topics covered will include political ecology, crises and uncertainty, indigeneity and community management.									
	Enrollment Limit: 25									
	Attributes: B: Analysis of the Social World Social Science Environmental Studies									
		2659	001	1.0	Joshua Moses	M W	11:30AM	1:00PM	VCAM201	7
ANTH	**H303A**	**History and Theory of Anthropology**								
	The development of anthropological thought. Theories of society and the human subject, social organization and social structure, and the culture concept. Structuralism, Marxist anthropology, the crisis of representation in the 1980s and 1990s, postmodernism, the relationship between ethnography and history, and practice theory.									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)		Days	Start	End	Room	Enrld
	Prerequisite(s): One course in ANTH, excluding BMC ANTH B303 *Attributes: B: Analysis of the Social World Social Science*										
		1353	001	1.0	Zainab M. Saleh		W	1:30PM	4:00PM	LUT230	15
ANTH	**H319A**	**Deviant Bodies: The Anthropology of Gender and Race**									
	What is the relationship between white supremacy, racial capitalism, and the construction of gender difference, gender deviance, and racial hierarchy? How can we think about gender non-normativity as a challenge to racial capitalism and its regimes of value, while simultaneously recognizing the dangers of recuperating white gender nonconformity into the ruling racial regime? In this course, students will encounter scholars from a range of disciplines—anthropology, Black studies, history, performance studies, and comparative literature—exposing the colonial invention and imposition of race/sex difference as a foundational move of colonialism, transatlantic slavery, and capitalism. In the second half of the course, taking cues from Ferguson’s Aberrations in Black, Williamson’s Scandalize My Name, and McMillan’s Embodied Avatars, we will consider the (trans) liberation politics that coalesce through antinormative gendered positions refuting racial capitalism’s regimes of value. Prerequisite(s): 100 level course in Anthropology or Instructor consent Enrollment Limit: 15 Lottery Preference(s): Anthropology majors, Gender and Sexuality Studies minors *Attributes: B: Analysis of the Social World Gender and Sexuality Studies Social Science*										
		2748	001	1.0	Nadja Eisenberg-Guyot		T	1:30PM	4:00PM	LNKL205	0
ANTH	**H450A**	**Senior Seminar: Research and Writing**									
	The fall semester of the two-semester senior thesis seminar. Students do archival and ethnographic research, write a research prospectus, get training on ethics, and write a review of the anthropological literature on their area of inquiry. *Attributes: B: Analysis of the Social World Social Science*										
		1358	001	1.0	Zolani Noonan-Ngwane		M	7:30PM	10:00PM	HLL112	10
ANTH	**H451B**	**Senior Seminar: Supervised Research and Writing**									
	The spring semester of the two-semester senior thesis seminar. Students complete research on their thesis and write an ethnography. Most of the semester is individual meetings between thesis writers and advisors. The spring senior thesis seminar includes a public thesis presentation and an oral exam. *Attributes: B: Analysis of the Social World Social Science*										
		1366	001	1.0	Zolani Noonan-Ngwane						2
ANTH	**H480A**	**Independent Study**									
		1355	001	1.0							0
ARAB	**H001A**	**Introduction to Modern Standard Arabic**									
	Three additional hours of Drill required. Enrollment Limit: 20 Lottery Preference(s): 14 spaces reserved for incoming freshmen; (1) Freshman; (2) sophomore; (3) Junior; (4) major/Minor/Concentration; (5) Permission of Instructor *Attributes: A: Meaning, Interpretation (Texts) Humanities*										
		1291	001	1.5	Manar Darwish	Lecture	T Th	8:30AM	10:00AM	STO10	19
		1292	00A	.0	Manar Darwish	Haverford Drill Session	M W F	8:30AM	9:30AM	STO10	11
		1293	00B	.0	Manar Darwish	Bryn Mawr Drill Session	M W F	10:00AM	11:00AM		8
ARTS	**H101D**	**Arts Foundation-Drawing (2-D)**									
	A seven-week introductory course for students with little or no experience in drawing. Students will first learn how to see with a painter's eye. Composition, perspective, proportion, light, form, picture plane and other fundamentals will be studied. We will work from live models, still life, landscape, imagination and masterwork. Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors *Attributes: A: Creative Expression Humanities Visual Studies*										
		1762	001	.5	Jonathan C. Goodrich		M	7:30PM	10:00PM	ARTS8A	15

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
ARTS	**H101E**	**Arts Foundation-Drawing (2-D)**								
	A seven-week introductory course for students with little or no experience in drawing. Students will first learn how to see with a painter's eye. Composition, perspective, proportion, light, form, picture plane and other fundamentals will be studied. We will work from live models, still life, landscape, imagination and masterwork.									
	Enrollment Limit: 15									
	Lottery Preference: Fine Arts majors and minors									
	Attributes: Humanities Visual Studies A: Creative Expression									
		1777	001	.5	Jonathan C. Goodrich	M	7:30PM	10:00PM	ARTS8A	14
ARTS	**H103D**	**Arts Foundation-Photography**								
	This is a half-semester course to introduce the craft and artistry of photography to students with some or no skills in photography. Students learn how to develop negatives, print enlargements, and printing techniques such as burning, dodging, and exposure time. This class also requires a two-hour workshop. The day and time of the workshop will be determined during the first class. Offered in the first quarter.									
	Enrollment Limit: 12									
	Attributes: Visual Studies Humanities A: Creative Expression									
		1760	001	.5	William Williams	M	1:30PM	4:00PM	ARTS15	10
ARTS	**H104D**	**Arts Foundation - Sculpture**								
	This is a seven-week, half semester course designed to provide an introduction to three dimensional concepts and techniques. Skills associated with organizing and constructing three-dimensional form will be addressed through a series of projects within a contemporary context. The first projects will focus on basic three-dimensional concepts, while later projects will allow for greater individual self-expression and exploration. Various fabrication skills including construction, modeling, basic mold making, and casting will be demonstrated in class. All fabrication techniques will be covered in detail in class, and no prior experience is required to successfully complete this course.									
	Enrollment Limit: 15									
	Lottery Preference: Fine Arts majors and minors									
	Attributes: Visual Studies Humanities A: Creative Expression									
		1776	001	.5	Zachary Hill	W	1:30PM	4:00PM	ARTS8A	12
ARTS	**H104E**	**Arts Foundation-Sculpture**								
	This is a seven-week, half semester course designed to provide an introduction to three dimensional concepts and techniques. Skills associated with organizing and constructing three-dimensional form will be addressed through a series of projects within a contemporary context. The first projects will focus on basic three-dimensional concepts, while later projects will allow for greater individual self-expression and exploration. Various fabrication skills including construction, modeling, basic mold making, and casting will be demonstrated in class. All fabrication techniques will be covered in detail in class, and no prior experience is required to successfully complete this course.									
	Enrollment Limit: 15									
	Lottery Preference: Fine Arts majors and minors									
	Attributes: A: Creative Expression Humanities Visual Studies									
		1765	001	.5	Zachary Hill	W	1:30PM	4:00PM	ARTS8A	15
ARTS	**H107D**	**Arts Foundation-Painting**								
	A seven-week introductory course for students with little or no experience in painting. Students will be first introduced to the handling of basic tools, materials and techniques. We will study the color theory such as interaction of color, value & color, warms & cools, complementary colors, optical mixture, texture, surface quality. We will work from live model, still life, landscape, imagination and masterwork.									
	Enrollment Limit: 15									
	Lottery Preference: Fine Arts majors and minors									
	Attributes: Visual Studies Humanities A: Creative Expression									
		1797	001	.5	Ying Li	T	1:30PM	4:00PM	ARTS8A	10
ARTS	**H107E**	**Arts Foundation-Painting**								
	A seven-week introductory course for students with little or no experience in painting. Students will be first introduced to the handling of basic tools, materials and techniques. We will study color theory such as interaction of color, value &									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld

color, warms & cools, complementary colors, optical mixture, texture, and surface quality. We will work from live model, still life, landscape, imagination and masterwork.
Enrollment Limit: 15
Lottery Preference: Fine Arts majors and minors
Attributes: Humanities A: Creative Expression Visual Studies

		1763	001	.5	Ying Li	T	1:30PM	4:00PM	ARTS8A	12

ARTS H108E Arts Foundation-Photography
This is a half-semester course to introduce the craft and artistry of photography to students with some or no skills in photography. Students learn how to develop negatives, print enlargements, and printing techniques such as burning, dodging, and exposure time. This class also requires a two-hour workshop. The day and time of the workshop will be determined during the first class. Offered in the second quarter.
Enrollment Limit: 15
Lottery Preference: Fine Arts majors and minors
Attributes: Humanities A: Creative Expression Visual Studies

		1761	001	.5	William Williams	M	1:30PM	4:00PM	ARTS15	11

ARTS H121E Foundation Printmaking: Relief Printing
A seven-week course covering various techniques and approaches to the art of the woodcut and the linocut, emphasizing the study of design principles and the expressive potential of the medium to create a personal visual statement.
Enrollment limit -15
Attributes: Visual Studies Humanities A: Creative Expression

		1779	001	.5	Hee Sook Kim	T	1:30PM	4:00PM	LOCK105	11

ARTS H124D Foundation Printmaking: Monotype
Basic printmaking techniques in Monotype medium. Painterly methods, direct drawing, stencils, and brayer techniques for beginners in printmaking will be taught. Color, form, shape, and composition in 2-D format will be explored. Individual and group critiques will be employed.
Enrollment Limit: 15
Attributes: Humanities Visual Studies A: Creative Expression

		1767	001	.5	Hee Sook Kim	T	1:30PM	4:00PM	LOCK105	8

ARTS H142A Introduction to Visual Studies
An introduction to the trans-disciplinary field of Visual Studies, its methods of analysis and topical concerns. Traditional media and artifacts of art history and film theory, and also an examination of the ubiquity of images of all kinds, their systems of transmission, their points of consumption, and the very limits of visuality itself.
Crosslisted: Visual Studies, Fine Arts, Comparative Literature
Enrollment Limit: 25
Lottery Preference(s):
1.) Senior Visual Studies minors
2.) Other declared Visual Studies minors
5 spaces reserved for incoming first years
Attributes: A: Meaning, Interpretation (Texts) Visual Studies Humanities

		2373	001	1.0	Christina Knight	T Th	1:00PM	2:30PM	VCAM201	13

ARTS H218A Chinese Calligraphy As An Art Form
This course combines studio practice and creating art projects with slide lectures, readings, and museum visits. Students will study the art of Chinese Calligraphy, and its connection with Western art. No Chinese language required.
Enrollment Limit: 15
Attributes: Visual Studies Humanities A: Creative Expression

		1798	001	1.0	Ying Li	T	7:30PM	10:00PM	ARTS8A	15

ARTS H224A Computer and Printmaking
Computer-generated images and printmaking techniques. Students will create photographic, computer processed, and directly drawn images on lithographic polyester plates and zinc etching plates. Classwork will be divided between the computer lab and the printmaking studio to create images using both image processing software and traditional printmaking methods,

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		including lithography, etching, and silk-screen. Broad experimental approaches to printmaking and computer techniques will be encouraged. Individual and group critiques will be employed. enrollment limit: 12 Lottery Preference: Fine Arts Major and Minors *Attributes: Visual Studies A: Creative Expression Humanities*								
		1799	001	1.0	Hee Sook Kim	Th	1:30PM	4:00PM	LOCK105	12
ARTS	**H243A**	**Sculpture: Materials and Techniques**								
		This course is designed to give students an in-depth introduction to a comprehensive range of three-dimensional concepts and fabrication techniques. Emphasis will be on wood and metal working, and additional processes such as casting procedures for a range of synthetic materials and working with digital tools including a laser cutter and CNC equipment will be introduced in class. Course may be repeated for credit. Prerequisite: ARTSH104 or permission from the instructor. *Attributes: Humanities Visual Studies A: Creative Expression*									
		1766	001	1.0	Zachary Hill	W	10:00AM	12:30PM	ARTS8A	5
ARTS	**H251A**	**Photography: Materials and Techniques**								
		Students are encouraged to develop an individual approach to photography. Emphasis is placed on the creation of color photographic prints which express plastic form, emotions and ideas about the physical world. Work is critiqued weekly to give critical insights into editing of individual student work and the use of the appropriate black-and-white photographic materials in analog or digital formats necessary to give coherence to that work. Study of the photography collection, gallery and museum exhibitions, lectures and a critical analysis of photographic sequences in books and a research project supplement the weekly critiques. In addition students produce a handmade archival box to house their work, which is organized into a loose sequence and mounted to archival standards. Prerequisite: Fine Arts 103 or equivalent. *Attributes: Visual Studies Humanities A: Creative Expression*									
		1785	001	1.0	William Williams	M	10:00AM	12:30PM	ARTS15	7
ARTS	**H322A**	**Experimental Studio: Printmaking: Lithography**								
		An advanced course exploring traditional and experimental lithographic printmaking techniques in multiple plates and stones. Two- and three- dimensional and design and drawing exploration in color also are addressed. During the semester, students use multiple-plate and stone lithography in colors. Registration, color separation, and edition are taught at an advanced level. Combining other mediums can be explored individually. Development of technical skills of the Lithographic process with personal visual study is necessary and creative and experimental approaches are highly encouraged. A strong body of work following a specific theme is required. Individual discussions and group critiques are held periodically. Additional research on the history of printmaking is requested. Prerequisite(s): One course in printmaking or instructor consent Enrollment Limit: 15 *Attributes: Humanities*									
		1800	001	1.0	Hee Sook Kim	W	1:30PM	4:00PM	LOCK105	3
ARTS	**H351A**	**Experimental Studio Photography**								
		Students produce an extended sequence of their work in either book or exhibition format using black and white or color photographic materials. The sequence and scale of the photographic prints are determined by the nature of the student's work. Weekly classroom critiques, supplemented by an extensive investigation of classic photographic picture books and related critical texts guide students to the completion of their course work. This two semester course consists of the book project first semester and the exhibition project second semester. At the end of each semester the student may exhibit his/her project. *Attributes: Humanities A: Creative Expression Visual Studies*									
		1784	001	1.0	William Williams	W	10:00AM	12:30PM	ARTS15	2
ARTS	**H460A**	**Teaching Assistant**								
		1782	001	.5	TBA Department staff					1
ARTS	**H460D**	**Teaching Assistant**								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1771	001	.5	TBA Department staff					0
		1774	002	.5	TBA Department staff					0
ARTS	**H460E**	**Teaching Assistant**								
		1772	001	.5	TBA Department staff					0
ARTS	**H499A**	**Senior Departmental Studies**								
		The student reviews the depth and extent of experience gained, and in so doing creates a coherent body of work expressive of the student's insights and skills. At the end of the senior year the student is expected to produce a show of his or her work.								
		Attributes: Humanities								
		1768	001	1.0	Ying Li	W	4:30PM	6:00PM	PARK	6
ASTR	**H204A**	**Introduction to Astrophysics**								
		General introduction to astronomy including: the structure and evolution of stars; the properties and evolution of the solar system including planetary surfaces and atmospheres; exoplanets; and observational projects using the Strawbridge Observatory telescopes.								
		Prerequisite(s): MATH H118 or equivalent; PHYS H105 or PHYS B121; Co-requisite(s): PHYS H106 or B201								
		Enrollment Limit: 30								
		Lottery Preference(s):								
		1. Physics, astrophysics or astronomy majors								
		2. Sophomores								
		3. Physics & astronomy minors								
		4. First-years								
		Attributes: C: Physical and Natural Processes Scientific Computing Natural Science								
		1894	001	1.0	Karen L. Masters	T Th	10:00AM	11:30AM	OBS	14
ASTR	**H351D**	**Topics in Astrophysics: Gravitational Waves**								
		This course explores the new field of Gravitational Wave Astrophysics from the low frequencies (in the polarization of the cosmic microwave background) to the high frequencies that LIGO has discovered. In between, there is pulsar timing as a gravitational wave detector, and the planned space-based detector LISA. We will discuss how these different detectors will work together to explore the relatively unexplored gravitational wave universe. You will learn some of the basics of general relativity.								
		Crosslisted: PHYS.								
		Pre-requisite(s): PHY213 and PHY214 or permission of the instructor.								
		Attributes: C: Physical and Natural Processes Natural Science								
		2016	001	.5	Andrea N. Lommen	T Th	1:00PM	2:30PM	OBS	13
ASTR	**H352E**	**Topics in Astrophysics: Extragalactic Data Science**								
		A 0.5 credit upper level astronomy/astrophysics elective, which can be taken in series with the other 0.5 credit upper level Astro elective offered the same semester, or as a stand-alone course. This class will cover the basics of modern extragalactic science (a review of our knowledge of the Milky Way and external galaxies) alongside hands on projects involving data science/statistical techniques used to investigate them. Assessment will be highly project based, with regular coding assignments (in python) done during class time, and guided reading of both current, and classic astrophysical literature. Students will leave with an understanding of extragalactic astrophysics as a modern data focused science.								
		Crosslisted: PHYS.								
		Pre-requisite(s): ASTR204								
		Attributes: Natural Science C: Physical and Natural Processes								
		2392	001	.5	Karen L. Masters	T Th	1:00PM	2:30PM	OBS	12
ASTR	**H404A**	**Research in Astrophysics**								
		Intended for those students who choose to complete an independent research project in astrophysics under the supervision of a faculty member.								
		Prerequisite(s): Instructor consent								
		Enrollment Limit: 12								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Attributes: Natural Science									
		1897	001	1.0	Andrea N. Lommen					0
		1898	002	1.0	Karen L. Masters					0
ASTR	**H404F**	**Research in Astrophysics**								
	Intended for those students who choose to complete an independent research project in astrophysics under the supervision of a faculty member.									
	Prerequisite(s): Instructor consent									
	Attributes: Natural Science									
		1901	001	.5	Andrea N. Lommen					0
		1902	002	.5	Karen L. Masters					0
BIOL	**H115A**	**Exploring Biology - Biology Seminar With Lab**								
	An introduction to the study of biological science and its relationship to allied fields. Intentionally designed for first-year students that either intend to major in biology or seek to enhance their literacy with biology, this course uses a modular approach to explore core biological concepts and their connections to society. By successfully completing this seminar, students should feel literate within the biological sciences, and if applicable, prepared, confident, and empowered to pursue a Biology major. Does not count towards the Biology major.									
	Pre-requisite(s): none. Not open to students who have completed 200-level BIOL courses. Concurrent enrollment in 200-level will require instructor permission.									
	Enrollment Limit: 35									
	Lottery Preference: First-year students, then sophomores									
	Attributes: C: Physical and Natural Processes Natural Science									
		1890	001	1.0	Robert Fairman	T Th	1:00PM	2:30PM	HLS108	11
BIOL	**H200A**	**Evolution, Genetics & Genomics**								
	Three hours of lecture and one laboratory period per week. A one-year course in cellular and molecular biology, Biology 200 considers the cell as a unit of biological activity. Biology 200A discusses the gene as a storehouse of biological information, the flow and transmission of genetic information, and genomics in the context of evolution, as well as the cellular context in which these processes occur. The laboratory introduces the student to cell and molecular biology, genetics and biochemistry.									
	Enrollment per lab section is limited to 28. Preference for a specific lab section will be given to students preregistering for that lab section; students who do not preregister will be assigned on a space available basis. When two sections of the lecture component are offered one lecture section will be limited to 50.									
	Prerequisite(s): The prerequisite for Biology 200A is successful completion, with a grade of 2.0 or higher, of a one credit Natural Science course (which includes a laboratory experience) at Haverford, Bryn Mawr or Swarthmore, or instructor consent Students must also enroll in a lab section and a discussion section.									
	Attributes: Natural Science C: Physical and Natural Processes									
		1816	001	1.0	Danielle De Leo	T Th	10:00AM	11:00AM	SHAAUD	85
		1854	001A	.0	Foen Peng	F	9:30AM	10:30AM	SHA113	14
		1855	001B	.0	Danielle De Leo	F	11:30AM	12:30PM	STO102	14
		1856	001C	.0	Foen Peng	F	10:30AM	11:30AM	SHA113	14
		1857	001D	.0	Danielle De Leo	M	1:00PM	2:00PM	ESTW115	12
		1867	001E	.0	Rachel Hoang	M	12:00PM	1:00PM	SHA113	16
		1868	001F	.0	Rachel Hoang	M	1:00PM	2:00PM	SHA113	15
		1817	00A	.0	Danielle De Leo	T	1:00PM	4:00PM	SHA118	20
		1818	00B	.0	Danielle De Leo	W	1:00PM	4:00PM	SHA118	23
		1819	00C	.0	Seol Im	Th	1:00PM	4:00PM	SHA118	20
		1820	00D	.0	Eric Miller	F	1:00PM	4:00PM	SHA118	22
BIOL	**H217A**	**Behavioral Neuroscience**								
	Interrelations between brain, behavior, and subjective experience. The course introduces students to physiological psychology through consideration of current knowledge about the mechanisms of mind and behavior.									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Crosslisted: Psychology, Biology Prerequisite(s): Any one of the following or instructor consent: PSYC 100, PSYC B105, BIOL H123, BIOL H124, BIOL H128, BIOL H129, Psychology AP Score 4 Enrollment Limit: 35 Lottery Preference(s): Priority to senior psychology or neuroscience majors, followed by junior psychology or neuroscience majors, followed by psychology or neuroscience minors *Attributes: C: Physical and Natural Processes Natural Science B: Analysis of the Social World Neuroscience*									
		1626	001	1.0	Laura E. Been	M W	10:00AM	11:30AM	UNMAC	13
BIOL	**H300A Advanced Lab in Biology Sem 1** One lecture and two laboratory periods per week. An introduction to the application of modern experimental approaches in the study of interesting biological questions. Techniques employed are drawn from: cloning and nucleic acids (DNA and RNA) manipulation, including polymerase chain reaction (PCR) and site-directed mutagenesis; protein expression, purification and characterization, with emphasis on circular dichroism and fluorescence spectroscopy; immunofluorescence, confocal and electron microscopy; and fluorescence-activated cell sorting (FACS) analysis. Preference for a specific lab section will be given to students preregistering for that lab section; students who do not preregister will be assigned on a space available basis. Each lab section enrollment is limited to 16. Prerequisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, or instructor consent Enrollment Limit: 32 Lottery Preference(s): Biology majors *Attributes: C: Physical and Natural Processes Natural Science*									
		1833	001	1.0	Amy Cooke	M	1:00PM	2:30PM	SHAAUD	41
		1878	002	1.0	Seol Im	M	1:00PM	2:30PM	ESTW106	12
		1834	00A	.0	Amy Cooke	T Th	1:00PM	4:00PM	ESTW105	21
		1835	00B	.0	Amy Cooke	W F	1:00PM	4:00PM	ESTW105	20
		1879	00C	.0	Seol Im	W F	1:00PM	4:00PM	ESTW106	12
BIOL	**H300D Advanced Lab in Biology Sem 1** One lecture and two laboratory periods per week. An introduction to the application of modern experimental approaches in the study in interesting biological questions. Techniques employed are drawn from: cloning and nucleic acids (DNA and RNA) manipulation, including polymerase chain reaction (PCR) and site-directed mutagenesis; protein expression, purification and characterization, with emphasis on circular dichroism and fluorescence spectroscopy; immunofluorescence, confocal and electron microscopy; and fluorescence-activated cell sorting (FACS) analysis. Preference for a specific lab section will be given to students preregistering for that lab section; students who do not preregister will be assigned on a space available basis. Enrollment in the half-semester module is by consent of instructor only. Prerequisite(s): Successful completion of BIOL H200A and B with grades of 2.0 or higher, and instructor consent. Enrollment Limit: 32 Lottery Preference(s): Biology majors Enrollment by instructor consent only *Attributes: C: Physical and Natural Processes Natural Science*									
		1836	001	.5	Amy Cooke	M	1:00PM	2:30PM		0
		1837	00A	.0	Amy Cooke	T Th	1:00PM	4:00PM	ESTW105	0
		1838	00B	.0	Amy Cooke	W F	1:00PM	4:00PM	ESTW105	0
BIOL	**H300E Advanced Lab in Biology Sem 1** One lecture and two laboratory periods per week. An introduction to the application of modern experimental approaches in the study in interesting biological questions. Techniques employed are drawn from: cloning and nucleic acids (DNA and RNA) manipulation, including polymerase chain reaction (PCR) and site-directed mutagenesis; protein expression, purification and characterization, with emphasis on circular dichroism and fluorescence spectroscopy; immunofluorescence, confocal and electron microscopy; and fluorescence-activated cell sorting (FACS) analysis. Preference for a specific lab section will be given to students preregistering for that lab section; students who do not preregister will be assigned on a space available basis. Enrollment in the half-semester module is by consent of instructor only. Prerequisite(s): Successful completion of BIOL H200A and B with grades of 2.0 or higher, and instructor consent.									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Enrollment Limit: 32 Lottery Preference(s): Biology majors Enrollment by instructor consent only *Attributes: Natural Science C: Physical and Natural Processes*									
		1839	001	.5	Kristen Whalen	M	1:00PM	2:30PM		0
		1840	00A	.0	TBA Department staff	T Th	1:00PM	4:00PM	ESTW105	0
		1841	00B	.0	TBA Department staff	W F	1:00PM	4:00PM	ESTW105	0
BIOL	**H311D**	**Advanced Genetic Analysis**								
	The molecular mechanisms governing the transmission, mutation and expression of genes. Particular emphasis is placed on the use of experimental genetic methods to analyze other areas of biology. Crosslisted: Biology, Health Studies Prerequisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, or instructor consent *Attributes: Natural Science Health Studies*									
		1850	001	.5	Danielle De Leo	M W F	10:30AM	11:30AM	STO131	43
BIOL	**H329D**	**Comparative Cell Biology of Invertebrates**								
	Invertebrates comprise over 90% of all animal life, and are found in every ecosystem on Earth. To this extent, invertebrates exhibit a diverse array of adaptations to enable functioning in various habitats. In this upper-level biology course, we will explore the cellular basis of these adaptations using a systems-level approach, with topics including immunity, endocrinology, excretion, reproduction, cellular respiration, integument, and others. Prerequisite(s): BIOL H200 and BIOL H201, grade 2.0 or above *Attributes: Natural Science C: Physical and Natural Processes*									
		1882	001	.5	Jay Lunden	T	7:30PM	10:00PM	SHA410	30
BIOL	**H333E**	**Marine Ecology**								
	An introduction to ecological themes in the marine environment. The course will give an overview of ecological concepts, including species interactions, food webs, and human impacts, from the level of individual to populations, communities, and ecosystems in the marine realm. Prerequisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, or instructor consent Enrollment Limit: 35 Biology majors then other interested students with the pre-requisites *Attributes: C: Physical and Natural Processes Natural Science*									
		2206	001	.5	Danielle De Leo	M W F	10:30AM	11:30AM	STO131	35
BIOL	**H334E**	**Biochemistry of Gene Expression**								
	The main goal of this course is to develop a fundamental understanding of the biochemical properties that impact gene expression, and how these properties influence the regulation that allows for proper gene expression. The class will use case studies from primary scientific literature to understand how disease can result from mis-regulation. Students will read and critique scientific articles and gain skills of communication of scientific ideas and concepts via oral presentations and writing assignments. Pre-requisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, or instructor consent *Attributes: C: Physical and Natural Processes Natural Science*									
		2610	001	.5	Amy Cooke	T Th	10:00AM	11:30AM	TRLR-OBS	19
BIOL	**H380A**	**Independent Study for Juniors**								
	Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation. Prerequisite(s): Instructor consent *Attributes: Natural Science*									
		1822	001	1.0	Seol Im					1
BIOL	**H380D**	**Independent Study for Juniors**								
	Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		project with a final write-up and presentation. Prerequisite(s): Instructor consent *Attributes: Natural Science*								
		1885	001	.5	TBA Department staff					0
BIOL	**H380E**	**Independent Study for Juniors**								
		Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation. Prerequisite(s): Instructor consent *Attributes: Natural Science*								
		1863	001	.5	TBA Department staff					0
BIOL	**H380F**	**Independent Study for Juniors**								
		Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation. Prerequisite(s): Instructor consent *Attributes: Natural Science*								
		1847	001	.5	TBA Department staff					2
BIOL	**H400A**	**Senior Research Tutorial at Off-Campus Research Labs**								
		Research in an area of cell, or molecular biology is conducted under the supervision of a member of a nearby research laboratory who has volunteered time and space for a Haverford student. All students enrolled in Biology 400 must have designated on-campus and off-campus supervisors. Prerequisite(s): BIOL H300 and BIOL H301 with a grade of 2.0 or above and instructor consent. *Attributes: Natural Science*								
		1845	001	1.0	Karl A. Johnson					1
BIOL	**H403A**	**Senior Research Tutorial in Protein Folding and Design**								
		The laboratory focuses on protein folding and design, with a particular emphasis on the use of proteins in nanoscience. Students will have the opportunity to apply chemical and genetic approaches to the synthesis of proteins for folding and design studies. Such proteins are characterized in the laboratory using biophysical methods (such as circular dichroism spectroscopy, analytical ultracentrifugation, and atomic force microscopy). Functional and structural approaches can also be applied as necessary to answer specific questions relating to protein science. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 *Attributes: Natural Science Neuroscience*								
		1824	001	1.0	Robert Fairman					7
BIOL	**H403F**	**Senior Research Tutorial in Protein Folding and Design**								
		The laboratory focuses on protein folding and design, with a particular emphasis on the use of proteins in nanoscience. Students will have the opportunity to apply chemical and genetic approaches to the synthesis of proteins for folding and design studies. Such proteins are characterized in the laboratory using biophysical methods (such as circular dichroism spectroscopy, analytical ultracentrifugation, and atomic force microscopy). Functional and structural approaches can also be applied as necessary to answer specific questions relating to protein science. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 *Attributes: Neuroscience Natural Science*								
		1825	001	.5	Robert Fairman					1
BIOL	**H404A**	**Senior Research Tutorial in Molecular Microbiology**								
		Microbes live and grow in environments that include other microbes; how do these microbe-microbe interactions change microbial genomes (through evolution) and change the composition of communities (through ecological dynamics)? Laboratory								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld

work will focus on pathogen and commensal Streptococcus species to investigate how cells communicate with each other, how they exchange genes, and how they produce toxins that modify their surrounding community. Bioinformatic approaches will examine evolution within and between bacteria species, while computational approaches will investigate fundamental questions in evolutionary biology. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work.
Prerequisite(s): Instructor consent
Attributes: Natural Science

	1828	001	1.0	Eric Miller		5

BIOL H404F Senior Research Tutorial in Molecular Microbiology

Microbes live and grow in environments that include other microbes; how do these microbe-microbe interactions change microbial genomes (through evolution) and change the composition of communities (through ecological dynamics)? Laboratory work will focus on pathogen and commensal Streptococcus species to investigate how cells communicate with each other, how they exchange genes, and how they produce toxins that modify their surrounding community. Bioinformatic approaches will examine evolution within and between bacteria species, while computational approaches will investigate fundamental questions in evolutionary biology. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work.
Prerequisite(s): Instructor consent.
Attributes: Natural Science

	1829	001	.5	Eric Miller		2

BIOL H405A Senior Research Tutorial In Marine Natural Product Drug Discovery

Marine organisms are important producers of substances useful for treatment of human diseases. Students will integrate ecological and evolutionary theories, cellular physiology, and natural-product chemistry to guide discovery of new compounds with beneficial properties. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work.
Prerequisite(s): Instructor consent
Enrollment Limit: 7
Attributes: Natural Science

	1814	001	1.0	Kristen Whalen		5

BIOL H405F Senior Research Tutorial In Marine Natural Product Drug Discovery

Marine organisms are important producers of substances useful for treatment of human diseases. Students will integrate ecological and evolutionary theories, cellular physiology, and natural-product chemistry to guide discovery of new compounds with beneficial properties. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work.
Prerequisite(s): Instructor consent
Enrollment Limit: 7
Attributes: Natural Science

	1815	001	.5	Kristen Whalen		0

BIOL H406A Senior Research Tutorial in Developmental Biology and Evolution

In this course students explore processes of embryonic development and their evolutionary underpinnings. Using primarily insect model systems students design research projects drawing on a variety of techniques including cell and molecular biology, embryology, genetics, genomics and cell imaging. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work.
Prerequisite(s): Instructor consent
Enrollment Limit: 7
Attributes: Natural Science

	1830	001	1.0	Rachel Hoang		4

BIOL H406F Senior Research Tutorial in Developmental Biology and Evolution

In this course students explore processes of embryonic development and their evolutionary underpinnings. Using primarily insect model systems students design research projects drawing on a variety of techniques including cell and molecular biology, embryology, genetics, genomics and cell imaging. Exploration of the primary literature and various opportunities to

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 *Attributes: Natural Science*									
		1831	001	.5	Rachel Hoang					0
BIOL	**H407A**	**Senior Research Tutorial in Bioarchitecture**								
	Studies of structure in living systems and applications in nanotechnology. Approaches employed include genetic analysis, biochemistry, biophysics, molecular biology, microscopy and imaging, bioengineering and synthetic biology. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 *Attributes: Natural Science*									
		1826	001	1.0	Karl A. Johnson					5
BIOL	**H407F**	**Senior Research Tutorial in Bioarchitecture**								
	Studies of structure in living systems and applications in nanotechnology. Approaches employed include genetic analysis, biochemistry, biophysics, molecular biology, microscopy and imaging, bioengineering and synthetic biology. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 *Attributes: Natural Science*									
		1827	001	.5	Karl A. Johnson					0
BIOL	**H408A**	**Senior Research Tutorial in Plant Biology and Evolution**								
	Plants are an important interface between biology and the environment, and the study of plants' evolutionary history illuminates this interaction. This course will focus on the physiology and evolution of living and extinct plants. Techniques employed include anatomical studies of living and fossil plant tissues; imaging and quantitative investigation of plant structure; and the collection and analysis of fossil plant material. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 *Attributes: Natural Science*									
		1852	001	1.0	Jonathan Wilson					2
BIOL	**H408F**	**Senior Research Tutorial in Plant Biology and Evolution**								
	Plants are an important interface between biology and the environment, and the study of plants' evolutionary history illuminates this interaction. This course will focus on the physiology and evolution of living and extinct plants. Techniques employed include anatomical studies of living and fossil plant tissues; imaging and quantitative investigation of plant structure; and the collection and analysis of fossil plant material. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 *Attributes: Natural Science*									
		1853	001	.5	Jonathan Wilson					0
BIOL	**H409A**	**Senior Research Tutorial in Molecular Neurobiology**								
	In this course we will use the zebrafish model system to ask “how do genes control behavior?” at multiple complementary levels of analysis: molecular genetics, imaging of neural circuit development and function, and high-throughput behavioral approaches. Students will use established genetic tools and behavioral assays, as well as develop new methods to probe the underlying control of decision-making, learning & memory, motor control, anxiety, and more. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 *Attributes: Neuroscience Natural Science*									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1843	001	1.0	Roshan Jain					5
BIOL	**H409F**	**Senior Research Tutorial in Molecular Neurobiology**								
	In this course we will use the zebrafish model system to ask “how do genes control behavior?” at multiple complementary levels of analysis: molecular genetics, imaging of neural circuit development and function, and high-throughput behavioral approaches. Students will use established genetic tools and behavioral assays, as well as develop new methods to probe the underlying control of decision-making, learning & memory, motor control, anxiety, and more. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 *Attributes: Natural Science Neuroscience*									
		1844	001	.5	Roshan Jain					0
BIOL	**H417A**	**Senior Research Tutorial in Molecular Genomics/Biochemistry**								
	This course will focus on how RNA regulation mediated by RNA-binding proteins dictates and responds to cellular physiology at the molecular level. Students will approach this problem using a range of techniques including biochemistry, molecular genetics, systems biology, bioinformatics and mammalian tissue culture. Students will use an established functional genomic dataset to develop new tools and cell-lines in order to uncover the molecular mechanisms of RNA regulation and connect this regulation to physiological events such as amino acid transport in skeletal muscle cells. As a supplement to lab work, students will explore the scientific literature and have opportunities to present their scientific findings in both written and oral format to hone their scientific communication skills. Prerequisite(s): Instructor Consent Enrollment Limit: 7 *Attributes: C: Physical and Natural Processes Natural Science*									
		1859	001	1.0	Amy Cooke					5
BIOL	**H417F**	**Senior Research Tutorial in Molecular Genomics/Biochemistry**								
	This course will focus on how RNA regulation mediated by RNA-binding proteins dictates and responds to cellular physiology at the molecular level. Students will approach this problem using a range of techniques including biochemistry, molecular genetics, systems biology, bioinformatics and mammalian tissue culture. Students will use an established functional genomic dataset to develop new tools and cell-lines in order to uncover the molecular mechanisms of RNA regulation and connect this regulation to physiological events such as amino acid transport in skeletal muscle cells. As a supplement to lab work, students will explore the scientific literature and have opportunities to present their scientific findings in both written and oral format to hone their scientific communication skills. Prerequisite(s): Instructor Consent Enrollment Limit: 7 *Attributes: Natural Science C: Physical and Natural Processes*									
		1888	001	1.0	Amy Cooke					0
BIOL	**H418A**	**Senior Research Tutorial in Evolutionary Genetics**								
	In this course we will use wild Mimulus flower species to explore how plants adapt to pollinators through evolution. Approaches include genetic mapping, plant transformation, gene expression analysis, population genetics simulation, pollinator behavior assays, mathematical modeling and 3D printing. Students will have opportunities to learn many generalizable skills, like experiment design, data analysis, and basic molecular lab skills. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Pre-requisite(s): Instructor consent Lottery Preference: None (this is a senior capstone course for Biology Majors) Enrollment Limit: 7 *Attributes: Natural Science C: Physical and Natural Processes*									
		2611	001	1.0	Foen Peng					2
BIOL	**H418F**	**Senior Research Tutorial in Evolutionary Genetics**								
	In this course we will use wild Mimulus flower species to explore how plants adapt to pollinators through evolution. Approaches include genetic mapping, plant transformation, gene expression analysis, population genetics simulation, pollinator behavior assays, mathematical modeling and 3D printing. Students will have opportunities to learn many									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	generalizable skills, like experiment design, data analysis, and basic molecular lab skills. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Pre-requisite(s): Instructor consent Lottery Preference: None (this is a senior capstone course for Biology Majors) Enrollment Limit: 7 *Attributes: C: Physical and Natural Processes Natural Science*									
		2612	001	.5	Foen Peng					0
BIOL	**H456D Advanced Topics in Biology of Marine Life** Exploration of marine metazoan evolution through the lens of behavioral, morphological, biochemical, and physiological adaptations to various ocean regimes. Readings from primary literature will cover physio-chemical properties of seawater, abiotic/biotic organismal interactions, symbiosis, energy production, human impacts, and phylogenetic relationships. Crosslisted: Biology, Environmental Studies Prerequisite(s): BIOL H300 and BIOL H301 with a grade of 2.0 or above, or instructor consent Enrollment Limit: 15 Lottery Preference: (1) Senior Biology majors (2) Seniors (3) Junior Biology majors. *Attributes: Natural Science Environmental Studies*									
		1889	001	.5	Kristen Whalen	T Th	10:00AM	11:30AM	SHA113	15
BIOL	**H499J Senior Department Studies** Participation in the department's seminar series; attendance at seminars by visiting speakers; senior seminar meetings, consisting of presentation and discussion of research plans and research results by students; and class activities related to the senior year in biology. Prerequisite(s): Department consent *Attributes: Natural Science*									
		1832	001	.5	Roshan Jain	M	2:30PM	4:00PM	SHAAUD	40
CHEM	**H111A Chemical Structure and Bonding** Structure and bonding in molecules starting from nuclear and electronic structure of atoms. This course introduces the theories of chemical bonding that rationalize and predict the structures and bulk properties of molecules and materials. It also introduces modern instrumental and computational methods used to study chemical structure and bonding. Three lectures and one lab period per week required. *Attributes: Natural Science C: Physical and Natural Processes Quantitative Biochemistry and Molecular Biology*									
		2026	001	1.0	Sanjukta Das	M W F	9:30AM	10:30AM	HLS108	10
		2036	002	1.0	Sanjukta Das	M W F	10:30AM	11:30AM	HLS108	3
		2082	003	1.0	Kristina Streu	M W F	11:30AM	12:30PM	HLS108	14
		2643	004	1.0	Kristina Streu	M W F	8:30AM	9:30AM	HLS108	6
		2027	00A	.0	Kelly Ginion Matz	T	1:00PM	4:00PM	ESTW305	6
		2028	00B	.0	Kelly Ginion Matz	W	1:00PM	4:00PM	ESTW305	7
		2029	00C	.0	Kelly Ginion Matz	Th	1:00PM	4:00PM	ESTW305	1
		2030	00D	.0	Sanjukta Das	F	1:00PM	4:00PM	ESTW305	8
		2037	00E	.0	Kelly Ginion Matz	M	1:00PM	4:00PM	ESTW305	9
		2071	00F	.0	Sanjukta Das	Th	9:00AM	12:00PM	ESTW305	2
CHEM	**H113A Intensive: Chemical Structure and Bonding** Structure and bonding in molecules starting from nuclear and electronic structure of atoms. This course introduces the theories of chemical bonding that rationalize and predict the structures and bulk properties of molecules and materials. It also introduces modern instrumental and computational methods used to study chemical structure and bonding. This is a more intensive offering of CHEM 111 designed for students with little or no experience in chemistry. Prerequisite(s): Placement by the Chemistry Department. *Attributes: Natural Science Natural Science C: Physical and Natural Processes Quantitative Quantitative C: Physical and Natural Processes*									
		2034	001	1.0	Frances R. Blase	M W F	9:00AM	10:00AM	HLS109	8

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		2034	001	1.0	Frances R. Blase	T Th	9:00AM	10:00AM	HLS109	8
		2038	00A	.0	Kelly Ginion Matz	T	1:00PM	4:00PM	ESTW305	2
		2039	00B	.0	Kelly Ginion Matz	W	1:00PM	4:00PM	ESTW305	1
		2040	00C	.0	Kelly Ginion Matz	Th	1:00PM	4:00PM	ESTW305	1
		2041	00D	.0	Sanjukta Das	F	1:00PM	4:00PM	ESTW305	3
		2042	00E	.0	Kelly Ginion Matz	M	1:00PM	4:00PM	ESTW305	1
CHEM	**H222A**	**Organic Biological Chemistry**								
		Survey of organic chemistry reactions in an aqueous environment, highlighting transformations important for understanding the properties and reactivity of biomolecules in the cell, with emphasis on functional groups, acids and bases, chirality, energetics, reaction mechanisms, enzyme inhibitors and drug design.								
		One lab per week required.								
		One recitation per week required.								
		Prerequisite(s): CHEM H111 or CHEM H113 or CHEM H115; and CHEM 104 or CHEM H112 or CHEM H114. Alternatively, students who have taken a two semester General Chemistry course elsewhere (for instance, CHEM B103 and CHEM B104) must, prior to the start of CHEM H222, demonstrate knowledge (by a self-scheduled exam) of common organic functional group structures and spectroscopic methods (as covered by CHEM H111, CHEM H113 and CHEM H115); students should contact the Department Chair the instructor immediately after preregistration to obtain access to a self-guided course centered on these topics.								
		Attributes: C: Physical and Natural Processes Natural Science Biochemistry and Molecular Biology Health Studies								
		2019	001	1.0	Louise Charkoudian	M W F	9:30AM	10:30AM	SHAAUD	93
		2020	00A	.0	Mark M. Stein	M	1:00PM	4:00PM	ESTW307	25
		2021	00B	.0	Mark M. Stein	T	1:00PM	4:00PM	ESTW307	26
		2022	00C	.0	Mark M. Stein	W	1:00PM	4:00PM	ESTW307	19
		2023	00D	.0	Mark M. Stein	Th	1:00PM	4:00PM	ESTW307	23
CHEM	**H261J**	**Research Tutorial in Physical Chemistry**								
		One-half credit course for the year designed for students interested in the chemistry research experience in physical chemistry, condensed phase chemical physics, and biophysical chemistry, with emphasis on spectroscopic studies of peptides and proteins. (Not open to seniors.)								
		Prerequisite(s): Instructor consent: interested students should discuss possible enrollment with the instructor.								
		Attributes: C: Physical and Natural Processes Natural Science								
		2045	001	.5	Casey H Londergan					0
CHEM	**H262J**	**Research Tutorial in Theoretical Chemistry**								
		One-half credit course for the year designed for students interested in the chemistry research experience in theoretical physical chemistry, with emphasis on methods for prediction of optical, electronic, and mechanical properties of semiconductor nanostructures. (Not open to seniors.)								
		Prerequisite(s): Instructor consent								
		Attributes: Natural Science C: Physical and Natural Processes								
		2083	001	.5	Clyde Daly					1
CHEM	**H263J**	**Research Tutorial in Organic Chemistry**								
		One-half credit course for the year designed for students interested in the chemistry research experience in synthetic organic chemistry and physical-organic chemistry. Topics include total synthesis of biologically significant molecules, new methods of enantioselective synthesis, and the study of organic reaction mechanisms. (Not open to seniors.)								
		Prerequisite(s): Instructor consent								
		Attributes: C: Physical and Natural Processes Natural Science								
		2046	001	.5	Paul Spoors					1
CHEM	**H265J**	**Research Tutorial in Bioinorganic Chemistry**								
		One-half credit course for the year designed for students interested in the chemistry research experience in spectroscopic and kinetic studies of metalloproteins and inorganic coordination compounds. (Not open to seniors.) This course is graded universal P/F in which no numerical grade is assigned.								
		Prerequisite(s): Instructor consent (requires prior discussion of, and agreement on, type of research to be pursued; this								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld

assures that necessary resources will be available and that the student's knowledge of chemistry is sufficient to safely and effectively carry out the research). Interested students should reach out to the instructor to discuss potential enrollment
Attributes: Natural Science C: Physical and Natural Processes

		2047	001	.5	Robert C. Scarrow					0

CHEM H267J Research Tutorial in Biological Chemistry
One-half credit course for the year designed for students interested in the chemistry research experience in natural product biosynthesis. (Not open to seniors.) This course is graded universal P/F in which no numerical grade is assigned.
Prerequisite(s): Instructor consent

		2048	001	.5	Louise Charkoudian					3

CHEM H268J Research Tutorial in Environmental Chemistry
One-half credit course for the year designed for students interested in the chemistry research experience in the field of biogeochemistry, a multidisciplinary approach focused at understanding the chemical composition and processes of Earth's biosphere. (Not open to seniors.)
Prerequisite(s): Instructor consent
Attributes: C: Physical and Natural Processes Natural Science

		2049	001	.5	Helen K. White					1

CHEM H269J Research Tutorial in Materials Science
One-half credit course for the year designed for students interested in the chemistry research experience in the field of biogeochemistry, a multidisciplinary approach focused at understanding the chemical composition and processes of Earth's biosphere. (Not open to seniors.)
Prerequisite(s): Instructor consent
Attributes: Natural Science C: Physical and Natural Processes

		2050	001	.5	Alexander Norquist					0

CHEM H301A Lab in Chemical Structure and Reactivity
Two lectures and two laboratory periods. An introduction to the methods of research in chemistry. Inorganic, organic, physical chemistry, computational chemistry, and biochemical concepts are integrated in a broad laboratory study of structure and its relationship to chemical reactivity. Physical methods are used in studies of organic, inorganic, and biochemical reactions. Chemical synthesis and the modern methods of computation and instrumental analytical chemistry are particularly stressed.
Attributes: C: Physical and Natural Processes Natural Science Biochemistry and Molecular Biology

		2032	001	1.0	Paul Spoors	T Th	11:30AM	12:30PM	SHA113	20
		2033	00A	.0	Paul Spoors	T Th	1:00PM	4:00PM	ESTW108	20

CHEM H304A Statistical Thermodynamics and Kinetics
A quantitative approach to the description and prediction of behavior in chemical systems. Topics to be covered include: introductory quantum mechanics and energy in molecules, statistical mechanics and energy partitioning, thermodynamics of molecules and larger systems, physical and chemical equilibrium, and chemical kinetics. Systems of interest range from single molecules to complicated condensed-phase macromolecular assemblies; specific experimental examples of single-molecule observation, phase changes in lipids and liquid crystals, and observations of protein folding will be discussed in the context of the course material.
Prerequisite(s): MATH H118 (or placement beyond MATH H118) and either CHEM H104 or CHEM H112 or CHEM H114
Attributes: C: Physical and Natural Processes Natural Science Biochemistry and Molecular Biology Quantitative Biophysics

		2031	001	1.0	Clyde Daly	T Th	8:30AM	10:00AM	SHA113	30

CHEM H310F Seminar in the Social Relevance of Chemistry
This seminar will explore, articulate, and discuss the influence that Chemistry and society have on each other. Participants will develop awareness of the historical, political and cultural context of western science, with specific attention to how chemistry affects, and is affected by, the exclusion of people and ideas based on race, ethnicity, ability, socioeconomic status, and other identities. Participants will connect these topics of study to their current roles at Haverford and future careers.
Pre-requisite(s): One semester of CHEM 225 or a declared Chemistry major

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Lottery Preference: Declared Majors: Seniors, then Juniors Enrollment Limit: 25 *Attributes: C: Physical and Natural Processes Natural Science*									
		2430	001	.5	Helen K. White	F	1:00PM	2:30PM	SHA113	3
CHEM	**H352E**	**Topics in Biophysical Chemistry: Biomolecular Modeling**								
	This course will introduce the fundamentals of biomolecular modeling. Students will gain a conceptual understanding of computational modeling techniques and practical experience using contemporary computational methods. While a broad range of methods will be introduced, we will cover molecular dynamics (MD) simulations in depth. Prerequisite(s): Chem H304 or equivalent (depending on material), or instructor consent. *Attributes: Natural Science C: Physical and Natural Processes Biochemistry and Molecular Biology*									
		2063	001	.5	TBA Department staff	M	7:30PM	10:00PM	LNKL205	15
CHEM	**H357D**	**Topics in Bioorganic Chemistry**								
	The specific content of the course varies, depending on faculty and student interests. The course will focus on organic chemistry as applied to biological systems and related topics. Prerequisite(s): Chem 225 or instructor consent Enrollment Limit: 30 *Attributes: Natural Science C: Physical and Natural Processes Biochemistry and Molecular Biology*									
		2084	001	.5	Mark A. Hilfiker	M	7:30PM	10:00PM	SHA113	15
CHEM	**H361A**	**Senior Research Tutorial in Physical Chemistry**								
	Directed research in physical chemistry, condensed phase chemical physics, and biophysical chemistry, with emphasis on spectroscopic studies of site-specific environmental and conformational dynamics in peptides and proteins. Prerequisite(s): Instructor consent *Attributes: Natural Science*									
		2052	001	1.0	Casey H Londergan					3
CHEM	**H362A**	**Senior Research Tutorial in Theoretical Chemistry**								
	Directed research in computational and theoretical physical chemistry, with emphasis on development and application of methods for prediction of optical, electronic, and mechanical properties of organic and inorganic semiconductor nanostructures. Prerequisite(s): Instructor consent *Attributes: Natural Science*									
		2085	001	1.0	Clyde Daly					3
CHEM	**H363A**	**Senior Research Tutorial in Organic Chemistry**								
	Directed research in synthetic organic chemistry, and physical-organic chemistry. Topics include total synthesis of biologically significant molecules, new methods of enantioselective synthesis and the study of organic reaction mechanisms. Prerequisite(s): Instructor consent *Attributes: Natural Science*									
		2053	001	1.0	Paul Spoors					5
CHEM	**H365A**	**Senior Research Tutorial in Bioinorganic Chemistry**								
	Directed research in bioinorganic and coordination chemistry. Topics include synthesis and spectroscopic and kinetic studies of inorganic coordination compounds that can aid in understanding the chemistry of metalloproteins. Prerequisite(s): Instructor consent *Attributes: Natural Science*									
		2055	001	1.0	Robert C. Scarrow					1
CHEM	**H367A**	**Senior Research Tutorial in Biological Chemistry**								
	Topics include synthesis and reactivity of chiral platinum complexes; structural characterization of platinum oligonucleotide complexes by combined multidimensional NMR/computational methods. Prerequisite(s): Instructor consent *Attributes: Natural Science*									
		2056	001	1.0	Louise Charkoudian					2
CHEM	**H368A**	**Senior Research Tutorial in Environmental Chemistry**								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Directed research in environmental chemistry, centered in the field of biogeochemistry, a multidisciplinary approach focused at understanding the chemical composition and processes of Earth's biosphere. Prerequisite(s): Instructor consent *Attributes: Natural Science*									
		2057	001	1.0	Helen K. White					1
CHEM	**H369A**	**Senior Research Tutorial: Materials Science**								
	Directed research in inorganic materials chemistry. Topics include synthesis and structural characterization of organically templated microporous materials. Prerequisite(s): Instructor consent *Attributes: Natural Science*									
		2058	001	1.0	Alexander Norquist					3
		2086	002	1.0	Milana Thomas					0
CHEM	**H391J**	**Chemistry Departmental Seminar**								
	Presentation and discussion of current research topics in the various areas of chemistry by faculty, students and outside speakers. One meeting per week throughout the year (one-half course credit). This course is graded universal P/F in which no numerical grade is assigned. Prerequisite(s): concurrent enrollment in a research tutorial course (CHEM H361 to CHEM H369, or equivalent).									
		2051	001	.5	Robert C. Scarrow	F	2:30PM	4:00PM	HLS109	16
CHEM	**H480A**	**Independent Study**								
	Independent Study									
		2066	001	1.0						0
CHEM	**H480F**	**Independent Study**								
	Enrollment Limit: 5									
		2035	001	.5						0
CMSC	**H105A**	**Introduction to Computer Science**								
	Introduction to the intellectual and software tools used to create and study algorithms: formal and informal problem specification; problem solving and algorithm design techniques; reliability, formal verification, testing, and peer code review techniques; program clarity, complexity and efficiency; functional and imperative paradigms; associated programming skills. Students must attend a one-hour weekly lab. Labs will be sectioned by course professor. Prerequisite(s): May not be taken by students who have taken any one of HC: CMSC 104, CMSC 107; BMC: CMSC 110, except by instructor consent Enrollment Limit: 36 Lottery Preference(s): 24 spaces reserved for incoming freshmen, then: 1) Sophomores 2) Senior Scientific Computing concentrators 3) Junior CS minors, Junior Scientific Computing concentrators, and Junior CS concentrators 4) Others *Attributes: Quantitative Natural Science C: Physical and Natural Processes*									
		1680	001	.0	TBA Department staff	M W	11:30AM	1:00PM	HLS204	22
		2669	002	.0	Jeova Farias Sales Rocha Neto	M W	2:30PM	4:00PM	HLS204	4
		1677	00A	1.0	Suzanne Lindell	F	9:30AM	10:30AM	HLS110	7
		1678	00B	1.0	Suzanne Lindell	F	10:30AM	11:30AM	HLS110	8
		1679	00C	1.0	Suzanne Lindell	F	11:30AM	12:30PM	HLS110	11
CMSC	**H107A**	**Introduction to Computer Science and Data Structures**								
	An accelerated treatment of CMSC 105/106 for students with significant programming experience. Reviews programming paradigms, while focusing on techniques for reasoning about about software: methodical testing, formal verification, code reviews, other topics as time permits. Includes lab work. Prerequisite(s): CMSC104 or instructor consent, or placement by CS faculty, based on CS placement test. If you are									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld

interested in CMSC 107, you should preregister for the CMSC 105 section at the same time and take the placement test by the deadline, typically Wednesday before classes start; may not be taken by students who have taken any one of HC: CMSC 105, CMSC 106; BMC: CMSC 206, except by instructor consent
Enrollment Limit: 36
Lottery Preferences: 18 spaces reserved for incoming freshmen, then:
1) Sophomores
2) Senior Scientific Computing concentrators
3) Junior CS minors, Junior Scientific Computing concentrators, and Junior CS concentrators
4) Others
Attributes: Quantitative Natural Science C: Physical and Natural Processes

	1675	001	.0	John P. Dougherty	M W	11:30AM	1:00PM	FDR220	9
	1673	00A	1.0	John P. Dougherty	T	9:30AM	10:30AM	HLS110	1
	1674	00B	1.0	John P. Dougherty	T	10:30AM	11:30AM	HLS110	4
	1676	00C	1.0	John P. Dougherty	T	11:30AM	12:30PM	HLS110	4

CMSC H209A Morphological Reinflection
Morphological reinflection is the machine learning problem of developing automated tools to convert a word marked for one category into its corresponding form in another category (e.g., running to ran). The difficulty varies with the complexity of the language's inflectional system and the resources available for that language. We will study current methods for solving this problem, using many example languages to understand what aspects of linguistic structure prove most challenging for this computational task. Crosslisted: Linguistics, Computer Science
Pre-requisite(s): LING 204 OR CMSC 104 OR CMSC 105/106 OR CMSC 107 (or BMC equivalents). LING 101 and SWAT LING 043 are desirable, but not required.
Enrollment Limit: 15
Lottery Preference: 1) senior LING and CMSC majors, 2) junior majors, 3) all LING/CMSC minors, 4) everyone else.
Attributes: C: Physical and Natural Processes Natural Science

	2216	001	1.0	Jane Chandlee	M W	2:30PM	4:00PM	STO102	7

CMSC H231A Discrete Mathematics
An introduction to discrete mathematics with strong applications to computer science. Topics include set theory, functions and relations, propositional logic, proof techniques, difference equations, graphs, and trees.
Co-requisite(s): CMSC 105, 107, or B110 or B113 or instructor consent
Enrollment Limit: 48
Lottery Preference(s): 18 spaces reserved for incoming freshmen, then:
1) Junior CS majors
2) Sophomores
3) Senior CS minors
4) Junior CS minors
5) Senior CS concentrators
6) Junior CS concentrators
7) Others
Attributes: Quantitative Natural Science C: Physical and Natural Processes

	1696	001	.0	Moses Boudourides	M W F	9:30AM	10:30AM	TRLR-OBS	14
	1694	00B	1.0	Moses Boudourides	M	2:00PM	3:00PM	HLS110	7
	1695	00C	1.0	Moses Boudourides	M	3:00PM	4:00PM	HLS110	6

CMSC H245A Principles of Programming Languages
Study of the design and implementation of modern programming languages: lexical and syntactic analysis; scoping mechanisms; run-time environments; implementation of structured, functional, object-oriented, and concurrent programming languages. Lectures cover theoretical foundations of language design and implementation; labs provide opportunities to both use and implement language features.
Prerequisite(s): CMSC 106, or 107 or 206, and CMSC/Math 231 (or instructor consent)
Enrollment Limit: 36

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Lottery Preference(s): Three spaces reserved for incoming freshmen, then: 1) Senior CS majors 2) Sophomores and Freshmen 3) Junior CS majors 4) Senior CS minors, CMSC Concentrators, Scientific Computing Concentrators 5) Junior CS minors, CMSC Concentrators, Scientific Computing Concentrators 6) Others *Attributes: Natural Science C: Physical and Natural Processes*									
		1700	001	.0	David Wonnacott	T Th	11:30AM	1:00PM	HLS204	18
		1697	00A	1.0	Suzanne Lindell	T	1:30PM	2:30PM	HLS110	10
		1698	00B	1.0	Suzanne Lindell	T	2:30PM	3:30PM	HLS110	8
CMSC	**H260A**	**Foundations of Data Science**								
	This course will introduce students to the principles of learning from data, including basic modeling, applied linear algebra, probability, statistics, and visualization. The lab component will focus on implementation and analysis in Python. Pre-requisite(s): MATH 105 or equivalent, CMSC H106/CMSC B206 (Data Structures), corequisite CMSC H231 (Discrete Math), or permission of the instructor. Enrollment Limit: 25 Lottery Preference: 1. Sophomores 2. Senior CS Majors 3. Junior CS Majors 4. Scientific Computing Concentrators *Attributes: Natural Science C: Physical and Natural Processes*									
		1711	001	.0	Sara Mathieson	T Th	10:00AM	11:30AM	HLS204	24
		1709	00A	1.0	Sara Mathieson	Th	12:00PM	1:00PM	HLS110	12
		1710	00B	1.0	Sara Mathieson	Th	1:00PM	2:00PM	HLS110	12
CMSC	**H325A**	**Computational Linguistics**								
	An overview of key areas of computational linguistics, including natural language processing and computational modeling of morpho-phonological systems. Students will study and practice the primary algorithms and techniques used in the automated analysis of natural language data. Crosslisted: Computer Science, Linguistics Prerequisite(s): CMSC 105 and CMSC 106 (or CMSC 107), OR CMSC B110 and CMSC B206, OR instructor permission. Enrollment Limit: 25 Lottery Preference(s): Computer Science and Linguistics Majors *Attributes: Natural Science*									
		1668	001	.0	Alvin Grissom	M W	2:30PM	4:00PM	SHA113	15
		1666	00A	1.0	Alvin Grissom	W	11:30AM	12:30PM	HLS110	8
		1667	00B	1.0	Alvin Grissom	W	12:30PM	1:30PM	HLS110	7
CMSC	**H340A**	**Analysis of Algorithms**								
	Qualitative and quantitative analysis of algorithms and their corresponding data structures from a precise mathematical point of view. Performance bounds, asymptotic and probabilistic analysis, worst case and average case behavior. Correctness and complexity. Particular classes of algorithms such as sorting searching will be studied in detail. Crosslisted: Computer Science, Mathematics Prerequisite(s): CMSC 106 or 107 or B206, and 231, or instructor consent Enrollment Limit: 24 Lottery Preferences: 1.) Senior CS majors 2.) Senior CS minors 3.) Junior CS majors and Senior CS concentrators 4.) Sophomores and first-year students 5.) Others *Attributes: Quantitative Natural Science C: Physical and Natural Processes*									
		1692	001	.0	Steven Lindell	M W	10:00AM	11:30AM	SHA410	22
		1690	00A	1.0	Steven Lindell	F	10:00AM	11:30AM	SHA410	22

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
CMSC	**H399A**	**Senior Thesis**								
	Fall seminar required for seniors writing theses, dealing with the oral and written exposition of advanced material. Lottery Preference(s): Senior standing *Attributes: Natural Science*									
		1672	001	1.0	Steven Lindell	F	1:30PM	4:00PM	HLS108	30
CMSC	**H480A**	**Independent Study**								
	Independent study, supervised by a member of the Computer Science department. Prerequisite(s): Instructor consent									
		1684	001	1.0						0
CMSC	**H480F**	**Independent Study**								
	Independent study, supervised by a member of the Computer Science department. Prerequisite(s): Instructor consent									
		1685	001	.5						0
		1686	002	.5						0
		1703	003	.5						0
CNSE	**H201A**	**Advanced Chinese:The Cultural Revolution (1966-1976)**								
	The courses in the “Advanced Chinese” series are the culmination of language training in the Bi-College Chinese program. Students can repeat such courses in the series with different topics. Prerequisite(s): Third-year Chinese or instructor consent *Attributes: Humanities A: Meaning, Interpretation (Texts) East Asian Languages and Cultures*									
		2120	001	1.0	Shizhe Huang	T Th	2:30PM	4:00PM	HLL112	8
COML	**H142A**	**Introduction to Visual Studies**								
	An introduction to the trans-disciplinary field of Visual Studies, its methods of analysis and topical concerns. Traditional media and artifacts of art history and film theory, and also an examination of the ubiquity of images of all kinds, their systems of transmission, their points of consumption, and the very limits of visuality itself. Crosslisted: Visual Studies, Fine Arts, Comparative Literature Enrollment Limit: 25 Lottery Preference(s): 1.) Senior Visual Studies minors 2.) Other declared Visual Studies minors 5 spaces reserved for incoming first years *Attributes: Visual Studies A: Meaning, Interpretation (Texts) Humanities*									
		2372	001	1.0	Christina Knight	T Th	1:00PM	2:30PM	VCAM201	1
COML	**H200A**	**Introduction to Comparative Literature**								
	A general introduction to the evolving field of comparative literature. Students read, discuss, and write about texts from across a wide range of national literatures and historical periods, with attention both to how these texts influence and relate to each other and to where and why they must differ. An additional focus on theoretical issues relevant to reading in general and, more particularly, reading between canons. *Attributes: Humanities A: Meaning, Interpretation (Texts)*									
		2087	001	1.0	Roberto Castillo Sandoval	F	11:00AM	1:30PM	STO104	12
COML	**H205A**	**Legends of Arthur**								
	An exploration of the Arthurian legend, from its earliest versions to most recent retellings. The tradition of Arthurian tales is complex and various, combining Celtic and Christian mythologies. Sometimes called the "matter of Britain" the Arthurian narrative has been critical in establishing national and ethnic identities ever since the Middle Ages. Medival notions of chivalry and courtly love also raise fascinating questions about the conflict between personal and private morality, and about the construction of both identity and gender. Enrollment Limit: 30 *Attributes: Humanities A: Meaning, Interpretation (Texts) Visual Studies*									
		2167	001	1.0	Maud B McInerney	M W	2:30PM	4:00PM	WDS	15
COML	**H210A**	**Spanish and Spanish American Film Studies**								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld

Exploration of Latin American film. The course will discuss approximately one movie per week. The class will focus on the analysis of cinematic discourses as well as the films' cultural and historic background. The course will also provide advanced language training with particular emphasis in refining oral and writing skills. This course is conducted in Spanish.
Crosslisted: Spanish, Comparative Literature.
Prerequisite(s): SPAN 102, or placement, or instructor consent.
Enrollment Limit: 20
Attributes: Humanities Latin American, Iberian, and Latinx Studies Visual Studies

	2433	001	1.0	TBA Department staff	T Th	10:00AM	11:30AM	VCAM102	2

COML H212A Refashioning the Classics: Voicing Myth
This course interrogates the relationships between classical myths and their revoicings. We explore various strands of reception theory in order to discuss the dynamics between different versions of myths, placing emphasis on myths that take voice as a central theme.
Crosslisted: Classical Studies, Comparative Literature
Enrollment Limit: 20
Lottery Preference(s): Classics and Comparative Literature majors and minors.
Attributes: Classics Humanities A: Meaning, Interpretation (Texts)

	1452	001	1.0	Hannah Rose Silverblank	M W	2:30PM	4:00PM	UN114	7

COML H250A Quixotic Narratives
This course proposes a bilingual reading of Miguel de Cervantes' famous novel, El ingenioso hidalgo don Quijote de la Mancha. Course readings and discussion will be in English with the option of reading the novel in Spanish and participating in a Spanish-language discussion group for interested students. The course will focus on analyzing the novel's self-reflexivity and narrative ambiguity as well as its depiction of gender, race, and class. We will also study the legacy of Cervantes' novel and its influence on subsequent fiction, philosophy, music, art and film. This course fulfills the "pre 1898" requirement.
Crosslisted: Spanish, Comparative Literature.
Enrollment Limit: 25
Attributes: A: Meaning, Interpretation (Texts) Humanities Latin American, Iberian, and Latinx Studies

	2255	001	1.0	Luis Rodriguez-Rincon	T Th	1:00PM	2:30PM	HLL112	2

COML H253A Hispanic Caribbean Migration Tales
Students will learn about different Hispanic Caribbean migratory experiences through a selection of short stories, novels, memoirs, and essays, as well as in film, and performative production. The texts that will be analyzed are mostly originally written in Spanish.
Crosslisted: Spanish, Comparative Literature
Prerequisite(s): SPAN H102 or 200-300 level in the placement test
Enrollment Limit: 25
Attributes: Latin American, Iberian, and Latinx Studies Humanities A: Meaning, Interpretation (Texts)

	2257	001	1.0	Lina Maria Martinez Hernandez	M W	2:30PM	4:00PM	HLL6	5

COML H274A The Problem of Evil: Ancient Answers to a Difficult Question
What is evil, and where does it come from? The difficulty of answering these questions is only matched by their importance to our lived human experience. Together we will study a wide range of texts from Archaic Greece through the early Middle Ages, and throughout the course, students will be encouraged to consider and reconsider their own understanding of these urgent issues. No previous experience in Classics or the ancient world is required.
Crosslisted: COML,RELG.
Pre-requisite(s): None
Lottery Preference: Ten slots reserved for first years, preference to Classics majors and minors
Enrollment Limit: 45
Attributes: A: Meaning, Interpretation (Texts) Humanities

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1454	001	1.0	Charles N. Kuper	M W	1:00PM	2:30PM	HLL107	13

COML H312A Adv Topics French Literature: Le cinéma militant de Raoul Peck

In the aftermath of the George Floyd killing, Raoul Peck's I am not Your Negro was widely watched on campuses across the country. This biopic of James Baldwin and reflection on anti-Black racism in the US is only one of many films the Haitian-born filmmaker has released in the past twenty years taking on both historical and contemporary societal issues, from neo-colonialism (Lumumba) and genocide (Sometimes in April) in Africa, to the failure of international aid to developing countries (Fatal Assistance), capitalism (Profit and Nothing But!) and, most recently, historical racism and colonialism (Exterminate all the Brutes). In this seminar we will discuss the wide-ranging questions that Peck addresses in his oeuvre, paying special attention to his radical aesthetics.
Crosslisted: FREN and COML
Attributes: Humanities A: Meaning, Interpretation (Texts) Africana Studies

		1374	001	1.0	Koffi Anyinefa	M	1:30PM	4:00PM	GST102	1

COML H322A Politics of Memory in Latin America

This course explores the issue of memory, the narration of political violence and the tension between truth and fiction. A selection of documents, visual archives and documentary films are compared with literary genres including testimonies memories, diaries, poetry, and fiction writing. This course also compares the coup and dictatorship of Pinochet with the repression of the student movement of '68 and the guerrilla warfare in Mexico. This course is conducted in Spanish.
Cross-listed: Spanish, Comparative Literature, PJHR
Attributes: Latin American, Iberian, and Latinx Studies Gender and Sexuality Studies Humanities Peace, Justice and Human Rights

		2261	001	1.0	Aurelia Gómez De Unamuno	T Th	10:00AM	11:30AM	LUT211	2

COML H389A Interpreting Lyric Poetry: Love, Loss, Transcendence

An examination of theoretical issues and presentational strategies in verse structures from Ovid to Bishop. Through close readings of strategically grouped texts, we explore the interplay of convention and innovation, attending to themes of desire, loss, and transcendence, and to recurrent lyric figures (e.g., in Narcissus, Orphic, and Ulysses poems; in the dramatic monologue; in the sonnet and elegy; in the sublime; in vernacular traditions and their literary revisions). Issues for study include: allusion and intertextuality; convention and cliché; invention and revision; origination and self-presentation. Practical criticism will lead to theoretical analyses of interpretive modes and the interpreter's stance.
Crosslisted: English, Comparative Literature
Prerequisite(s): Two 200-level English courses or instructor consent
Enrollment Limit: 12
Lottery Preference(s): English and Comparative Literature majors; then Spanish, French, German, Religion, and/or Philosophy majors
Attributes: Humanities

		2665	001	1.0	Kimberly Benston	T Th	1:00PM	2:30PM	LUT230	2

CSTS H212A Refashioning the Classics: Voicing Myth

This course interrogates the relationships between classical myths and their revoicings. We explore various strands of reception theory in order to discuss the dynamics between different versions of myths, placing emphasis on myths that take voice as a central theme.
Crosslisted: Classical Studies, Comparative Literature
Enrollment Limit: 20
Lottery Preference(s): Classics and Comparative Literature majors and minors.
Attributes: Humanities Classics A: Meaning, Interpretation (Texts)

		1451	001	1.0	Hannah Rose Silverblank	M W	2:30PM	4:00PM	UN114	3

CSTS H274A The Problem of Evil: Ancient Answers to a Difficult Question

What is evil, and where does it come from? The difficulty of answering these questions is only matched by their importance to our lived human experience. Together we will study a wide range of texts from Archaic Greece through the early Middle Ages, and throughout the course, students will be encouraged to consider and reconsider their own understanding of these

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	urgent issues. No previous experience in Classics or the ancient world is required. Crosslisted: COML,RELG. Pre-requisite(s): None Lottery Preference: Ten slots reserved for first years, preference to Classics majors and minors Enrollment Limit: 45 *Attributes: Humanities A: Meaning, Interpretation (Texts)*									
		1453	001	1.0	Charles N. Kuper	M W	1:00PM	2:30PM	HLL107	7
CSTS	**H399B**	**Senior Seminar**								
	Independent work on the senior thesis and meetings with the thesis advisor. *Attributes: Humanities*									
		2594	001	1.0	Bret Mulligan					1
EALC	**H132A**	**Japanese Civilization**								
	A broad chronological survey of Japanese culture and society from the earliest times to the present, with special reference to such topics as belief, family, language, the arts, and sociopolitical organization. Readings include primary sources in English translation and secondary studies. *Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies B: Analysis of the Social World*									
		2122	001	1.0	Huang-wen Lai	M W	1:00PM	2:30PM	CHS101	16
EALC	**H201A**	**Introduction to Buddhism**								
	Focusing on the East Asian Buddhist tradition, the course examines Buddhist philosophy, doctrine and practice as textual traditions and as lived religion. Crosslisted: East Asian Languages & Cultures, Religion Enrollment Limit: 30 *Attributes: A: Meaning, Interpretation (Texts) Humanities B: Analysis of the Social World Visual Studies*									
		2127	001	1.0	Hank Glassman	T Th	1:00PM	2:30PM	STO18	27
EALC	**H247A**	**Death and the Afterlife in East Asian Religions**								
	This course engages the rich textual and visual traditions of China, Korea, and Japan to illuminate funerary and memorial practices and explore the terrain of the next world. Students will learn about the culturally constructed nature of religious belief and come to see the complexity and diversity of the influences on understandings of life and death. The course is not a chronological survey, but rather alternates between modern and ancient narratives and practices to draw a picture of the relationship between the living and the dead as conceived in East Asian religions. *Attributes: A: Meaning, Interpretation (Texts) Visual Studies Humanities*									
		2410	001	1.0	Hank Glassman	T	7:30PM	10:00PM	VCAM201	51
EALC	**H292A**	**Material Culture in China**								
	This course offers an overview of China’s social, cultural and political history during the early modern and modern periods. But it does so by confronting material objects, placing them at the center of historical inquiry. We will investigate how material objects marked status and social distinction; how they served as expressions of gender, ethnic and class identity; and how during the modern period they morphed into symbolic tools of imperialist and nationalist projects. Crosslisted: EALC. Lottery Preference: History majors, EALC majors, sophomores Enrollment Limit: 25 *Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Social Science*									
		2572	001	1.0	Elif Akcetin	T Th	10:00AM	11:30AM	HLL6	7
EALC	**H335A**	**Japanese Modernisms Across Media**								
	This curatorial seminar examines the technological shifts and cultural transformations that have shaped Japanese artistic production and practice from the early 20th-century through the present day. Readings from pre-modern through contemporary sources, film screenings, and museum field trips, will be included. Prerequisite: Sophomore standing or higher. Enrollment limited to 15 students. *Attributes: Visual Studies Humanities*									
		2126	001	1.0	Huang-wen Lai	M	7:30PM	10:00PM	VCAM201	10

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
EALC	**H347A**	**Topics in East Asian History: The Art of Governance in High Qing China**								
	This seminar explores the cultural operations of state agencies during China's long eighteenth-century, as they unfolded in bureaucratic and legal systematization, knowledge making, textual production, bodily performances and gestures, the taxonomization of space, people, and material objects, and the representation of social, gender and ethnic identities, among others. We will ask: How did governing elites structure the social world and translate it into administrative language and practice? What strategies of representation and technologies of rule did they develop to enhance their capacity for control and their ability to grasp the complexities of the territories and people under their governance?									
	Crosslisted: History, East Asian Languages & Cultures									
	Prerequisite(s): Sophomore standing and above or instructor consent.									
	Attributes: East Asian Languages and Cultures B: Analysis of the Social World Social Science A: Meaning, Interpretation (Texts)									
		2234	001	1.0	Elif Akcetin	Th	1:30PM	4:00PM	UN114	2
EALC	**H398A**	**Senior Seminar**								
	A semester-long research workshop culminating in the writing and presentation of a senior thesis. Required of all majors; open to concentrators and others by permission.									
	Attributes: Humanities									
		2121	001	1.0	Hank Glassman	F	1:30PM	4:00PM	GST103	3
ECON	**H104A**	**Intensive Introduction to Economics**								
	An intensive introduction to both microeconomic topics—opportunity cost, supply and demand, consumer decision making, the theory of the firm, market structures, and efficiency and market failure—and macroeconomic topics—the determination of GDP, money and interest rates, unemployment and inflation, and fiscal and monetary policy. Designed for students who have not taken economics previously, the course meets 3 1 1/2 hour sessions per week and includes labor market applications (minimum wage, income inequality and the returns to college).									
	Enrollment Limit: 25									
	Attributes: Social Science B: Analysis of the Social World B: Analysis of the Social World Social Science									
		1971	001	1.0	Anne Preston	M W	11:30AM	1:00PM	CHS101	5
		1971	001	1.0	Anne Preston	T	11:30AM	1:00PM	CHS101	5
ECON	**H105A**	**Introduction to Economics**								
	An introduction to microeconomic and macroeconomic concepts and topics. Micro topics include opportunity cost, supply and demand, consumer decision making, the theory of the firm, production costs, market structures, market failure, efficiency, and welfare. Macroeconomic topics include: measurement of national output, inflation and unemployment, equilibrium output determination, money and banking, interest rates, and fiscal and monetary policy. Because ECON 105 requires graphical and algebraic competency, students are strongly encouraged to take a college-level calculus course either before or concurrently with this course.									
	Attributes: B: Analysis of the Social World Social Science									
		1937	001	1.0	Saleha Jilani	T Th	1:00PM	2:30PM	STO10	7
		1938	002	1.0	Vladimir Kontorovich	T Th	11:30AM	1:00PM	STO102	7
		2649	003	1.0	Michael Levere	M W	2:30PM	4:00PM	CHS104	8
ECON	**H201A**	**Analytical Methods for Economics**								
	The course explores several foundational models that shape our understanding of the nature of economic choices and interactions. We develop mathematical tools that are commonly used in the study of economics. This course is intended for students planning to major or minor in economics.									
	Prerequisite(s): Math 105 or Math 118 at Haverford College (or a comparable course in calculus at another college), or placement into Math 121 or higher; ECON 104 or ECON 105 or ECON 106									
	Attributes: Quantitative C: Physical and Natural Processes B: Analysis of the Social World Social Science									
		1984	001	1.0	David M. Owens	M W	10:00AM	11:30AM	FDR220	31
ECON	**H203A**	**Statistical Methods in Economics**								
	Foundations of statistical inference and data analysis. Three class hours and two lab hours.									
	Prerequisite(s): ECON 104, 105, or 106; Completion of Math 105 or Math 118 at Haverford College (or a comparable course in calculus at another college), or placement into Math 121 or higher.									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Attributes: Quantitative B: Analysis of the Social World Social Science									
		1952	001	1.0	Richard J. Ball	M W	8:30AM	10:00AM	CHS104	24
		1985	00A	.0	Richard J. Ball	T	7:30PM	10:00PM	HLS204	24
ECON	**H213A**	**Industrial Organization and Antitrust**								
	Industrial Organization is the study of how markets work, with an emphasis on firm behavior in imperfectly-competitive markets. The focus will be on how firms acquire market power and how they use it, how businesses interact with one another and their customers, implications for the firms' profits and the well-being of their customers, and the role of government competition policy (e.g., regulation, antitrust laws, etc.) to improve the functioning of these markets. This course uses microeconomic tools and game theory to study the strategic competition between firms and examine how this is related to market power and market structure.									
	Prerequisite(s): ECON 104 or 105									
	Attributes: Social Science B: Analysis of the Social World									
		1987	001	1.0	Vladimir Kontorovich	T Th	10:00AM	11:30AM	STO102	3
ECON	**H249A**	**The Soviet System and Its Demise**								
	The Soviet system was inspired by some of the loftiest ideals of humanity. The entire society was redesigned so as to pursue common goals, rather than conflicting private objectives. The economy was run for people, not profits. The Soviet system is no more, but the ideas on which it was founded will probably always be with us. What does the largest social and economic experiment in history teach us? The course is 1/3 political science and 2/3 economics.									
	Crosslisted: Economics, Russian									
	Prerequisite(s): ECON 104, 105, or 106, or two one-semester courses in political science or history, or instructor consent									
	Attributes: Social Science B: Analysis of the Social World									
		1944	001	1.0	Vladimir Kontorovich	T Th	2:30PM	4:00PM	STO102	8
ECON	**H298A**	**Impact Investing**								
	Impact investing is investing to generate both a financial return and a positive social benefit. It supports firms seeking to address social, environmental and /or governance problems (ESG) in a sustainable way often within market activity. The focus of this course is to not only gain an understanding of the theory and practice of impact investing across its many components, but also to gain practical experience by assessing a particular set of potential impact investments, making formal presentations of findings to an investment committee leading to a recommendation for investment to a partnering foundation.									
	Crosslisted: Economics, Independent College Programs, PJHR									
	Prerequisite(s): ECON 104 or 105 or 106									
	Enrollment Limit: 16									
	Attributes: B: Analysis of the Social World Peace, Justice and Human Rights Social Science B: Analysis of the Social World Social Science Peace, Justice and Human Rights									
		1988	001	1.0	Shannon B. Mudd	F	12:00PM	1:00PM	VCAM102	15
		1988	001	1.0	Shannon B. Mudd	M W	11:30AM	1:00PM	VCAM102	15
ECON	**H300A**	**Intermediate Microeconomic Analysis**								
	Microeconomic theory has developed around the analysis of Adam Smith's "invisible hand" conjecture. To test this conjecture, we model the behavior of economic actors (consumers and firms) and their interaction in different markets. These models allow us to investigate the conditions under which these markets work well, less well, or not at all. In the process, basic tools and concepts used in other areas of economics are developed. Many of the topics covered in Introduction to Economics (ECON 105/106) are studied more rigorously and in greater depth. New topics, such as behavior under risk, insurance, and imperfect information, are introduced.									
	Prerequisite(s): ECON 201									
	Asynchronous lecture									
	Attributes: Social Science B: Analysis of the Social World									
		1956	001	1.0	Giridhar Parameswaran					44
		2220	001A	.0	Giridhar Parameswaran	T	1:00PM	2:30PM	CHS101	25
		2221	001B	.0	Giridhar Parameswaran	T	2:30PM	4:00PM	CHS101	20
		2217	00A	.0	David Wonnacott	Th	1:30PM	2:30PM	HLS12	17

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		2218	00B	.0	David Wonnacott	Th	2:30PM	3:30PM	HLS12	16
		2219	00C	.0	David Wonnacott	Th	3:30PM	4:30PM	HLS12	11
ECON	**H304A**	**Introduction to Econometrics**								
		Development of econometric theory introduced in Economics 203. Includes topics such as ordinary least squares estimation, weighted least squares estimation, estimation of models with nonlinear forms, instrumental variables, and maximum likelihood estimation. Emphasis will be on application of econometric techniques to real economic and social policy issues such as the optimality of speed limit control, AIDS awareness and behavior modification, labor market discrimination, and worker productivity. Students will be expected to use data sets to evaluate policy issues and will be required to make a final presentation of findings in class.								
		Prerequisite(s): ECON 104, 105 or 106; MATH 118 (or equivalent of 2 semesters of college calculus); ECON 203 or 204 or MATH 203 or SOCL 215 or PSYCH 200, or Bryn Mawr's ECON B253								
		Attributes: C: Physical and Natural Processes Social Science								
		1939	001	1.0	Anne Preston	T Th	10:00AM	11:30AM	STO131	38
		2000	00A	.0	Anne Preston	T	10:00AM	11:30AM	CHS101	18
		2001	00B	.0	Anne Preston	Th	10:00AM	11:30AM	CHS101	20
ECON	**H307A**	**Money and Banking**								
		This course will focus on the basic features of asset market equilibria and the nature of interactions between private sector agents, the banking system, and the central bank. The course will begin with a description of how asset prices are determined in stock and bond markets, and then move on to a study of more sophisticated financial assets such as forwards, futures, and options. The course will ultimately facilitate a discussion of the 2008 financial crisis.								
		Prerequisite(s): Econ 302 and Econ 203 or 204 or Math 203								
		2002	001	1.0	Alberto Arredondo-Chavez	T Th	1:00PM	2:30PM	STO301	2
ECON	**H347A**	**Advanced Macroeconomics**								
		This course builds upon the theory introduced in intermediate macroeconomics, with emphasis on empirical research and tests of the effects of macroeconomic policy. Students will present a recent journal article to the class and will write policy briefs on current issues in macroeconomic policy.								
		Prerequisite(s): ECON 302 or ECON B202 at Bryn Mawr; ECON 304 (can be taken concurrently), or instructor consent								
		Attributes: Mathematical Economics Social Science B: Analysis of the Social World								
		2003	001	1.0	Carola Binder	T Th	8:30AM	10:00AM	STO102	3
ECON	**H378A**	**Junior Research Seminar: Sports as an Economics Laboratory**								
		A research seminar analyzing contemporary journal articles which use sports data to answer important economics questions in industrial organization, labor economics, game theory, and behavioral economics.								
		Prerequisite(s): Econ 300 or Econ B200 at Bryn Mawr; Econ 304 (can be taken concurrently); Math 118 (or equivalent of 2 semesters of college calculus), or instructor consent								
		Enrollment Limit: 15								
		Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes B: Analysis of the Social World Social Science								
		1945	001	1.0	Anne Preston	M W	2:30PM	4:00PM	STO207	6
ECON	**H383A**	**Junior Research Seminar: Health Economics**								
		This seminar examines the ways that health care differs from the rest of the economy. We will learn about the demand for health care from the consumer's perspective and the supply of health care from the perspective of providers. Additional topics include healthcare disparities, Medicare, Medicaid, the Affordable Care Act, the opioid epidemic, and recent research on COVID-19.								
		Pre-requisite(s): Econ 300, Econ 304-corequisite								
		Lottery Preference: Majors, Seniors and then juniors								
		Enrollment Limit: 15								
		Attributes: B: Analysis of the Social World C: Physical and Natural Processes Social Science								
		2677	001	1.0	Michael Levere	M W	11:30AM	1:00PM	STO207	4

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
ECON	**H396A**	**Research Seminar**								
	Must be a senior Economics major.									
	Prerequisite(s): ECON 203 or 204 or MATH 203 or SOCL 215 or PSYC 200 or Bryn Mawr's ECON B253; ECON 300 or ECON B200 at Bryn Mawr; ECON 302 or ECON B202 at Bryn Mawr; ECON 304 (can be taken concurrently); MATH 118 (or equivalent of 2 semesters of college calculus									
	Attributes: Social Science Social Science									
		1946	001	1.0	Carola Binder	M	7:30PM	10:00PM	STO10	7
		1946	001	1.0	Carola Binder	Th	2:30PM	4:00PM	STO10	7
		1947	002	1.0	Saleha Jilani	M	7:30PM	10:00PM	STO10	7
		1947	002	1.0	Saleha Jilani	Th	2:30PM	4:00PM	STO10	7
		1948	003	1.0	David M. Owens	M	7:30PM	10:00PM	STO10	7
		1948	003	1.0	David M. Owens	Th	2:30PM	4:00PM	STO10	7
		1951	004	1.0	Alberto Arredondo-Chavez	M	7:30PM	10:00PM	STO10	3
		1951	004	1.0	Alberto Arredondo-Chavez	Th	2:30PM	4:00PM	STO10	3
ECON	**H396B**	**Research Seminar**								
	Must be a senior Economics major.									
	Prerequisite(s): ECON 304; an ECON 37X Jr. Research Seminar; ECON 396A.									
		1953	001	1.0						0
ECON	**H480A**	**Independent Study**								
		1949	001	1.0	TBA Department staff					1
ECON	**H480I**	**Independent Study**								
		2004	001	.5	TBA Department staff					0
EDUC	**H200A**	**Community Learning Collaborative: Practicing Parnership**								
	Designed to be the first course for students interested in pursuing one of the options offered through the Education Program, this course is also open to students exploring an interest in educational practice, theory, research, and policy. The course examines major issues and questions in education in the United States by investigating the purposes of education and the politics of schooling. Through fieldwork in an area school, students practice ethnographic methods of observation and interpretation.									
	Lottery Preference(s): Not open to first semester first year students									
	Attributes: B: Analysis of the Social World Social Science Child and Family Studies									
		1794	001	1.0	Alice Lesnick	M	7:30PM	10:00PM	STO104	20
EDUC	**H270A**	**Measuring Education**								
	This course explores contemporary political movements to measure learning outcomes in educational institutions. It covers such topics as NCLB legislation, standardized testing for college admissions, assessment of college education, and development of online learning tools.									
	Crosslisted: Sociology, Educcation									
	Attributes: Social Science B: Analysis of the Social World									
		1755	001	1.0	Matthew McKeever	T	1:30PM	4:00PM	HLL6	25
EDUC	**H275A**	**Emergent Multilingual Learners in U.S. Schools**								
	This course focuses on educational policies and practices related to language minority students in the U. S. We examine English learners' diverse experiences, educators' approaches to working with linguistically diverse students, programs that address their strengths and needs, links between schools and communities, and issues of policy and advocacy. Fieldwork required.									
	Prerequisite(s): EDUC 200 or instructor consent									
	Lottery Preference(s): Priority to students pursuing a minor in Educational Studies or teacher certification									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Attributes: Social Science B: Analysis of the Social World Peace, Justice and Human Rights Child and Family Studies									
		1795	001	1.0	Kelly Gavin Zuckerman	M W	10:00AM	11:30AM	STO301	22
EDUC	**H301A**	**Curriculum and Pedagogy Seminar**								
	A consideration of theoretical and applied teacher preparation related to effective curriculum design, pedagogical approaches and related issues of teaching and learning leading to the creation of an extensive professional and reflective portfolio. Fieldwork required. Prerequisite(s): EDUC 200 or instructor consent Enrollment Limit: 15 Lottery Preference(s): Priority to seniors pursuing a minor in Educational Studies or teacher certification *Attributes: Praxis Program Social Science B: Analysis of the Social World*									
		1796	001	1.0	Chanelle Elizabeth Wilson	T	7:30PM	10:00PM	STO207	10
ENGL	**H101A**	**Theories of the Novel**								
	This course introduces students to the genre of the novel in English with a focus on desire, loss, and literary form. In order to ask the questions, 'Why and how do we read novels? What does this experience enable?" we will interrogate theories of the novel, its early formation and contemporary forms. We will also consider changing cultural representations of subjectivity, nation, race, gender, and ways of reading. How is the reader variously constructed as witness to (and participant in) desire and its demise? How do developments in narrative voice influence the idea of fiction as a didactic, pleasurable, speculative and/or imaginative space? What is the novel's role in effecting social change across centuries and geographies? Open to majors and non-majors—no prerequisites. Limit: 15 students. *Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World*									
		2165	001	1.0	Rajeswari Mohan	M W	1:00PM	2:30PM	WDS	16
ENGL	**H115A**	**Black Memoir and Mythography: an Introduction**								
	This course is an introductory level course to the genres of autobiography and memoir through the lens of black lived experiences. The course will familiarize students with myriad shapes of life writing as well as the aesthetic and political concerns associated with representing the black self. This course will continuously question and explore concepts of truth, arriving at a more informed understanding of the alchemy of memory, time and narrative conventions. Pre-requisite(s): First year writing seminar Enrollment Limit: 25 Lottery Preference: Sophomores, English majors, First year students, Africana concentrators *Attributes: Africana Studies A: Meaning, Interpretation (Texts) Humanities*									
		2174	001	1.0	Asali Solomon	T Th	11:30AM	1:00PM	VCAM201	13
ENGL	**H205A**	**Legends of Arthur**								
	An exploration of the Arthurian legend, from its earliest versions to most recent retellings. The tradition of Arthurian tales is complex and various, combining Celtic and Christian mythologies. Sometimes called the "matter of Britain" the Arthurian narrative has been critical in establishing national and ethnic identities ever since the Middle Ages. Medival notions of chivalry and courtly love also raise fascinating questions about the conflict between personal and private morality, and about the construction of both identity and gender. Enrollment Limit: 30 *Attributes: A: Meaning, Interpretation (Texts) Visual Studies Humanities*									
		2166	001	1.0	Maud B McInerney	M W	2:30PM	4:00PM	WDS	14
ENGL	**H249A**	**Introduction to Asian-American Literature**								
	This course will explore the diversity of Asian American experience by studying a selection of foundational and emerging works by Asian American writers. Assigned readings of various literary genres will address themes such as immigration, generational conflict, racism, assimilation, difference, and political struggle. Key lines of inquiry include: What does Asian American identity, culture, and aesthetic look like? How do writers represent them? What does the racial and literary category "Asian American" constitute? Crosslisted: ENGL. Pre-requisite(s): None									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities									
		2724	001	1.0	Elizabeth Kim	T Th	2:30PM	4:00PM	STO207	6
ENGL	**H260A**	**In the American Grain: Traditions in North American Literature**								
	The course conceptualizes American literature as a comparative literature whose traditions emerged from certain inalienable forces released as English became the dominant political language of North America. Theories of translation and language. Readings in Derrida, Certeau, Barthes, Shakespeare, Cabeza de Vaca, Behn, Rowlandson, Mather, Wheatly, Equiano, Franklin, Goethe, Nat Turner, Poe. The course concludes with a review of the drifting, searching world aboard Melville's Pequod in Moby-Dick. Satisfies the pre-1800 requirement.									
	Enrollment Limit: 30									
	Attributes: A: Meaning, Interpretation (Texts) Humanities									
		2169	001	1.0	Christina Zwarg	T Th	11:30AM	1:00PM	WDS	14
ENGL	**H278A**	**Contemporary Women Writers**								
	Readings in novels, short fiction, poetry, and some non-fictional prose by contemporary women writers. A study of the interrelations between literature written by female authors and the questions, concerns, and debates that characterize contemporary feminsit theory. Readings in Moore, Jordan, Gaitskill, Barry, Rankine, Parks, Ng, Morrison, etc.									
	Attributes: Gender and Sexuality Studies A: Meaning, Interpretation (Texts) Humanities Africana Studies									
		2171	001	1.0	Sarah Watson	T Th	11:30AM	1:00PM	UN114	41
ENGL	**H291A**	**Creative Writing: Poetry I**								
	This is a creative writing workshop on poetry. Student work is the focus along with the analysis of a wide variety of poems and poets. Weekly writing prompts will encourage students to widen their scope and develop their craft. Each week students will write poems that respond to other poems and some of the principal genres of poetry. Students will be asked to respond to the works of classmates. A final portfolio of revised poems (10 to 12 pages) is required.									
	Enrollment Limit: 15									
	Attributes: A: Creative Expression Humanities Creative Writing									
		2140	001	1.0	Thomas Devaney	F	1:30PM	4:00PM	WDS	14
ENGL	**H293A**	**Creative Writing: Fiction I**								
	This course is an introduction to the techniques and strategies of fiction writing, with particular emphasis on the short story. Weekly reading assignments will include both anthologized stories and student-generated ones.									
	Enrollment Limit: 15									
	Attributes: Humanities A: Creative Expression									
		2146	001	1.0	Asali Solomon	F	11:00AM	1:30PM	WDS	19
ENGL	**H294A**	**Creative Writing: Fiction II: Novel Openings**								
	Students in the Advanced Fiction Workshop will not only continue to hone the basic elements of their fiction, including character development, dialogue, plot and prose style, but will focus much of their efforts on revision and the process of "finishing" a story.									
	Prerequisite(s): One fiction writing course or instructor consent, and submission of writing sample to course professor									
	Enrollment Limit: 15									
	Attributes: A: Creative Expression Humanities									
		2591	001	1.0	Alexandra Chang	W	1:30PM	4:00PM	ESTW115	5
ENGL	**H298A**	**Junior Seminar I**								
	Junior seminar comprises of a two part sequence that, through class readings, discussion, and writing tutorials, engage students in a study of (1) a series of texts representing the range and diversity of the historical tradition in British and American literature, and (2) critical theory and practice as it has been influenced by hermeneutics, feminism, psychology, semiology, sociology, and the study of cultural representation, and as it reflects the methods of literary criticism.									
	Prerequisite(s): Only open to English majors									
	Enrollment Limit: 17									
	Attributes: Humanities									
		2147	001	1.0	Lindsay V. Reckson	T Th	10:00AM	11:30AM	HLL201	12
ENGL	**H298J**	**Junior Seminar I**								
	Junior seminar comprises of a two part sequence that, through class readings, discussion, and writing tutorials, engage									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		students in a study of (1) a series of texts representing the range and diversity of the historical tradition in British and American literature, and (2) critical theory and practice as it has been influenced by hermeneutics, feminism, psychology, semiology, sociology, and the study of cultural representation, and as it reflects the methods of literary criticism. *Attributes: Humanities*									
		2141	001	.5	Lindsay V. Reckson	T Th	10:00AM	11:30AM		10
ENGL	**H301A**	**Topics in Middle English: Pre-Modern Women Writers** Considers the construction of genders and sexualities in the medieval period. Crosslisted: English, Comparative Literature Enrollment Limit: 15 *Attributes: Gender and Sexuality Studies A: Meaning, Interpretation (Texts) Humanities*								
		2161	001	1.0	Sarah Watson	T Th	2:30PM	4:00PM	WDS	5
ENGL	**H356A**	**Studies in American Environment and Place** Texts mostly 19th and 20th-c. American, but beginning earlier, with colonial New England; then Thoreau, Maclean, Snyder, Dillard, Least Heat Moon, Ammons, Mary Oliver, E. O. Wilson. Topics: cultural production of landscape (rural and urban), environmental history, place studies, landscape painting, ecology. Prerequisite(s): Two 200-level HU courses or instructor consent Enrollment Limit: 15 *Attributes: Humanities Environmental Studies*								
		2172	001	1.0	C. Stephen Finley	T	7:30PM	10:00PM	WDS	11
ENGL	**H363A**	**Topics in American Literature: Trauma and Its Others** This course will expose students to recent trauma theory and the segregated traditions of literary history. Thinking about trauma theory before and after Freud, we will look again at authors attempting to bring together (and sometimes keep apart) cultural traditions irrupting into literary form from the late 18th to the early 20th century. We will also explore how forms of satire, comedy, and humor cross wires with traumatic experience. The role of heightened emotional states, including fugue or hypnotic experiences, and the shifting currency of the words "terror," “freedom,” and “shock” will be part of our focus. Prerequisite(s): two 200-level English courses or instructor consent Enrollment Limit: 15 *Attributes: A: Meaning, Interpretation (Texts) Humanities B: Analysis of the Social World Africana Studies*								
		2159	001	1.0	Christina Zwarg	T Th	2:30PM	4:00PM	LUT230	8
ENGL	**H373A**	**Topics in British Literature: Modernist Narratives** A study of the historical, aesthetic, and epistemological implications of literary modernism in Britain. The course explores narrative strategies writers such as Conrad, Ford, Joyce, Woolf, Bowen, West, Rhys, and Durrell devised to bring coherence and resolution to the experience of crisis and fragmentation associated with modernity. Enrollment Limit: 15 *Attributes: Humanities*								
		2267	001	1.0	Rajeswari Mohan	M W	10:00AM	11:30AM	WDS	8
ENGL	**H389A**	**Interpreting Lyric Poetry: Love, Loss, Transcendence** An examination of theoretical issues and presentational strategies in verse structures from Ovid to Bishop. Through close readings of strategically grouped texts, we explore the interplay of convention and innovation, attending to themes of desire, loss, and transcendence, and to recurrent lyric figures (e.g., in Narcissus, Orphic, and Ulysses poems; in the dramatic monologue; in the sonnet and elegy; in the sublime; in vernacular traditions and their literary revisions). Issues for study include: allusion and intertextuality; convention and cliché; invention and revision; origination and self-presentation. Practical criticism will lead to theoretical analyses of interpretive modes and the interpreter’s stance. Crosslisted: English, Comparative Literature Prerequisite(s): Two 200-level English courses or instructor consent Enrollment Limit: 12 Lottery Preference(s): English and Comparative Literature majors; then Spanish, French, German, Religion, and/or Philosophy majors *Attributes: Humanities*								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		2173	001	1.0	Kimberly Benston	T Th	1:00PM	2:30PM	LUT230	7
ENGL	**H399F**	**Senior Conference**								
	Senior Thesis work with advisor.									
	Prerequisite(s): Limited to senior English majors									
	Attributes: Humanities									
		2152	001	.5	Gustavus T. Stadler					14
		2153	00A	.0	Rajeswari Mohan					2
		2154	00B	.0	Lindsay V. Reckson					2
		2155	00C	.0	Gustavus T. Stadler					6
		2162	00D	.0	Asali Solomon					2
		2163	00E	.0	Christina Zwarg					2
ENVS	**H101A**	**Case Studies in Environmental Issues: Concepts, Contexts, & Conundrums**								
	The course offers a cross-disciplinary introduction to environmental studies. Tracing an arc from historical analysis to practical engagement, distinctive approaches to key categories of environmental inquiry are presented: political ecology, earth science, energy, economics, public health, ecological design, sustainability, policy, and environmental ethics. Basic concepts, such as thermodynamics, biodiversity, cost-benefit analysis, scale, modernization, enclosure, the commons, and situational ethics, are variously defined and employed within specific explorations of environmental challenges in the modern world.									
	Prerequisite(s): Not open to students who have taken ENVS 101 at Bryn Mawr or Swarthmore									
	Enrollment Limit: 40									
	Lottery Preference(s): Junior minors in ENVS; Sophomores; 5 spaces for Frosh									
	Attributes: B: Analysis of the Social World C: Physical and Natural Processes Environmental Studies A: Meaning, Interpretation (Texts)									
		2178	001	1.0	Jonathan Wilson	T Th	10:00AM	11:30AM	STO10	30
ENVS	**H136A**	**Black Ecologies**								
	This course engages writings and cultural works about Black eco-literary and ecological traditions. Black Ecologies focuses on the multiple ecological and spatial conditions that have over-determined Black life and relationships to nature including the middle passage, slavery, racial segregation, food apartheid, gentrification and even incarceration. All these phenomena have produced unequal access to natural resources, space, food and land through systems that racialize, gender and commodify space. By exploring Black cultural and land based worker’s literary, cultural, and community responses to anti-Black environmental conditions, we will consider how Black communities reclaim spatial autonomy through creative modes of collective liberation. Student's critical and creative writing will be based on course texts and outdoor experiences of observation and laboring collectively at Haverfarm. Open only to first-year students as assigned by the Director of College Writing.									
	Crosslisted: AFST,ENVS.									
	Attributes: Environmental Studies Africana Studies									
		2452	001	1.0	Tajah Ebram	T Th	11:30AM	1:00PM	HLL106	0
		2453	002	1.0	Tajah Ebram	T Th	1:00PM	2:30PM	HLL106	0
ENVS	**H201A**	**Laboratory in Environmental Sciences**								
	A lab-intensive introduction to environmental science research, exploring perspectives on scientific knowledge production, application-oriented scientific reporting, and historical context for sites of study. Includes field sampling and data collection, analysis of multiple datasets, and communication of findings to diverse audiences.									
	Prerequisite(s): ENVS 101									
	Enrollment Limit: 15									
	Lottery Preference(s): Senior ENVS majors, then Junior ENVS Majors, then Sophomores, ENVS minors, everyone else									
	Attributes: C: Physical and Natural Processes Environmental Studies Natural Science Quantitative									
		2176	001	1.0	Jonathan Wilson	Th	1:30PM	4:00PM	SHA113	15
ENVS	**H204A**	**Place, People and Collaborative Research in Environmental Studies**								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	This course focuses on the ethics and practice of community collaboration and community based research in the context of environmental challenges. Students will gain grounding in both theory and practice incorporating themes related to race, class, gender and environmental justice. Students will complete 4-5 hours of fieldwork per week. Prerequisite(s): ENVS 101 and at least one of ENVS 201, 202, 203 or instructor's permission. Enrollment Limit: 15 Lottery Preference(s): Senior ENVS majors, then Junior ENVS Majors, then Sophomores, ENVS minors, everyone else *Attributes: Environmental Studies A: Meaning, Interpretation (Texts) B: Analysis of the Social World Praxis Program Social Science*									
		2658	001	1.0	Joshua Moses	Th	1:30PM	4:00PM	ESTW115	2
ENVS	**H230A**	**Postwar Japanese Cinema**								
	This course provides an introduction to Japanese cinema from the immediate Postwar period of 1945 to the present day. Focusing on films by influential directors including Ozu Yasujiro, Kurosawa Akira, and Mizoguchi Kenji among others we will consider how Japanese filmmakers use cinema to investigate issues of truth, beauty, identity, and nationhood in an attempt to answer fundamental questions regarding life and death in Japan's Postwar period. Crosslisted: East Asian Languages & Cultures, Visual Studies, Environmental Studies Enrollment Limit: 15									
		2124	001	1.0						0
ENVS	**H278A**	**The Earth: Ethics, Politics, and Economics**								
	How should we deal with clashes among environmental values, economic growth, and what people want? Examines the clashing theories and interpretations of facts that underlie current environmental debates. Focus on climate change and inter-relations among ethical, political, and economic concerns. Enrollment Limit: 25 *Attributes: Social Science B: Analysis of the Social World*									
		2666	001	1.0	Thomas J. Donahue	F	11:00AM	1:30PM	GST101	0
ENVS	**H281A**	**Introduction to Environmental Anthropology**								
	An introduction to the ideas and methods central to environmental anthropology. Topics covered will include political ecology, crises and uncertainty, indigeneity and community management. Enrollment Limit: 25 *Attributes: B: Analysis of the Social World Environmental Studies Social Science*									
		2660	001	1.0	Joshua Moses	M W	11:30AM	1:00PM	VCAM201	8
ENVS	**H312A**	**Black & Asian Foodways: An Exploration**								
	This course will examine environmental and social histories of Black and Asian foods and cuisines in the US, including an introduction to environmental food studies, US Black and Asian migration histories, conflict, and solidarity, and case studies of specific foods. Prerequisite(s): ENVS 101 and at least one of ENVS 201–204; or permission of instructor Enrollment Limit: 15 Lottery Preference(s): ENVS majors, then Sophomores, then ENVS minors *Attributes: Global Asia C: Physical and Natural Processes B: Analysis of the Social World Social Science Africana Studies*									
		2406	001	1.0	Talia Young	T Th	11:30AM	1:00PM	STO16	14
ENVS	**H313A**	**Fish & Community: A Local Praxis**								
	Fish are animals that live in the ocean. But fish are also embedded in and create human communities: communities that harvest fish, and communities that prepare and eat fish. This course will explore fish as a tool for community-building. Prerequisite(s): ENVS 101 and least one of ENVS 201–204 or permission of instructor. Enrollment Limit: 15 *Attributes: B: Analysis of the Social World Social Science*									
		2187	001	1.0	Talia Young	T	1:30PM	4:00PM	STO14	15
ENVS	**H397A**	**Senior Seminar in Environmental Studies**								
	This capstone Environmental Studies course is designed to allow Environmental Studies seniors to actively engage in environmental problem solving by bringing the perspectives and skills gained from their majors and applying them to									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	collaborative, interdisciplinary projects. Enrollment Preference(s): Limited to seniors *Attributes: Environmental Studies C: Physical and Natural Processes A: Meaning, Interpretation (Texts) B: Analysis of the Social World*									
		2195	001	1.0	Joanne Douglas	W	1:30PM	4:00PM	LNKL205	13
ENVS	**H408A Senior Research Tutorial in Plant Biology and Evolution** Plants are an important interface between biology and the environment, and the study of plants' evolutionary history illuminates this interaction. This course will focus on the physiology and evolution of living and extinct plants. Techniques employed include anatomical studies of living and fossil plant tissues; imaging and quantitative investigation of plant structure; and the collection and analysis of fossil plant material. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 *Attributes: Natural Science*									
		2182	001	1.0	Jonathan Wilson					0
ENVS	**H456D Advanced Topics in Biology of Marine Life** Exploration of marine metazoan evolution through the lens of behavioral, morphological, biochemical, and physiological adaptations to various ocean regimes. Readings from primary literature will cover physio-chemical properties of seawater, abiotic/biotic organismal interactions, symbiosis, energy production, human impacts, and phylogenetic relationships. Crosslisted: Biology, Environmental Studies Prerequisite(s): BIOL H300 and BIOL H301 with a grade of 2.0 or above, or instructor consent Enrollment Limit: 15 Lottery Preference: (1) Senior Biology majors (2) Seniors (3) Junior Biology majors. *Attributes: Natural Science Environmental Studies*									
		2662	001	.5	Kristen Whalen	T Th	10:00AM	11:30AM	SHA113	0
ENVS	**H480B Independent Study** *Attributes: Environmental Studies*									
		2175	001	1.0	Jonathan Wilson					0
		2181	002	1.0	Jonathan Wilson					0
FREN	**H001A Elementary French** The speaking and understanding of French are emphasized particularly during the first semester. The work includes regular use of the Language Learning Center and is supplemented by intensive oral practice sessions. The course meets in intensive (nine hours each week) and non-intensive (five hours each week) sections. This is a year-long course; both semesters (001 and 002) are required for credit. Enrollment Limit: 20 *Attributes: A: Meaning, Interpretation (Texts) Humanities Humanities A: Meaning, Interpretation (Texts)*									
		1304	001	1.0	Kathryne Adair Corbin	M W F	8:30AM	9:30AM	HLL201	10
		1304	001	1.0	Kathryne Adair Corbin	T Th	9:00AM	10:00AM	HLL201	10
FREN	**H003A Intermediate French Non Intensive** The emphasis on speaking and understanding French is continued, texts from French literature and cultural media are read, and short papers are written in French. Students use the Language Learning Center regularly and attend supplementary oral practice sessions. The course meets in non-intensive (three hours each week) sections which are supplemented by an extra hour per week with an assistant. This is a year-long course; both semesters (003 and 004) are required for credit. Prerequisite(s): FREN 001 and 002, or French placement exam. *Attributes: A: Meaning, Interpretation (Texts) Humanities*									
		1305	001	1.0	Koffi Anyinefa	M W F	10:30AM	11:30AM	HLL112	3
		1306	002	1.0	Christophe Corbin	M W F	11:30AM	12:30PM	HLL106	5
FREN	**H101A Introduction à l'analyse littéraire et culturelle I** Presentation of essential problems in literary and cultural analysis by close reading of works selected from various periods and genres and by analysis of voice and image in French writing and film. Participation in discussion and practice in									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	written and oral expression are emphasized, as are grammar review and laboratory exercises. Prerequisite(s): FREN 003 and 004, or French placement exam *Attributes: Humanities A: Meaning, Interpretation (Texts)*									
		1307	001	1.0	Kathryne Adair Corbin	M W	11:30AM	1:00PM	UN111	2
		1308	002	1.0	Koffi Anyinefa	T Th	2:30PM	4:00PM	HLL201	6
FREN	**H203A Théâtre et raison d'état en France au grand siècle** What makes a culture "great"? A good place to explore this question is 17th-century France. It is often thought that during this century, French culture became great—hence the century's nickname, le grand siècle. In this course we will consider the hypothesis of French grandeur, but not to assess it as true or false. Rather, we will approach it as a notion that gets constructed, applied, and interrogated in the 1600s through a series of theatrical, political, architectural, theological, and scientific œuvres. These works—mainly by Molière, Madame de Lafayette, Racine, La Bruyère, Corneille, Descartes, Elisabeth de Bohême, and André Le Nôtre—differ radically in their ideas, forms, perspectives, and effects. Nevertheless, they are all regarded in France as "classics" in that they serve in the classroom as essential ingredients of an education. The significance of this class, therefore, extends beyond the specific period it covers to include French culture in general and the values that it may (or may not) have today. We will pay particular attention to theatrical plays as objects of individual passion and political appropriation, to the place of women with respect to ideologies of state and reason, to the establishment of a centralized--i.e., modern--state, as represented through the palace of Versailles and its gardens. In French. Prerequisite(s): FREN 101 and 102/105, or 005 and 102/105 *Attributes: A: Meaning, Interpretation (Texts) Humanities*									
		1335	001	1.0	David Sedley	M W	11:30AM	1:00PM	STO104	8
FREN	**H312A Adv Topics French Literature: Le cinéma militant de Raoul Peck** In the aftermath of the George Floyd killing, Raoul Peck's I am not Your Negro was widely watched on campuses across the country. This biopic of James Baldwin and reflection on anti-Black racism in the US is only one of many films the Haitian-born filmmaker has released in the past twenty years taking on both historical and contemporary societal issues, from neo-colonialism (Lumumba) and genocide (Sometimes in April) in Africa, to the failure of international aid to developing countries (Fatal Assistance), capitalism (Profit and Nothing But!) and, most recently, historical racism and colonialism (Exterminate all the Brutes). In this seminar we will discuss the wide-ranging questions that Peck addresses in his oeuvre, paying special attention to his radical aesthetics. Crosslisted: FREN and COML *Attributes: Humanities Africana Studies A: Meaning, Interpretation (Texts)*									
		1312	001	1.0	Koffi Anyinefa	M	1:30PM	4:00PM	GST102	3
FREN	**H398A Senior Conference** A weekly seminar examining representative French and Francophone literary texts and cultural documents from all periods, and the interpretive problems they raise. Close reading and dissection of texts, complemented by extensive secondary readings from different schools of interpretation, prepare students to analyze others critical stances and to develop their own. In addition to short essays and oral presentations, students write a long paper each semester and end the year with Senior Comprehensives, which consist of an oral explication of a French literary text or cultural document and a four-hour written examination. *Attributes: Humanities*									
		1372	001	1.0	David Sedley	Th	1:30PM	4:00PM	STO104	5
GERM	**H001A Elementary German** Meets five hours a week with the individual class instructor, one hour with student drill instructors. Strong emphasis on communicative competence both in spoken and written German in a larger cultural context. This is a year-long course; both semesters (001 and 002) are required for credit. Enrollment Limit: 18 *Attributes: Humanities A: Meaning, Interpretation (Texts)*									
		2088	001	1.0	Margaret Suzanne Hamilton Reif	M W F	9:30AM	10:30AM	HLL6	6
		2089	00A	.0	Margaret Suzanne	T Th	9:00AM	10:00AM	HLL6	6

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					Hamilton Reif					
GERM	**H101A**	**Intermediate German**								
	Meets three hours a week with the individual class instructor, one hour with student drill instructor. Thorough review of grammar, exercises in composition and conversation. Enforcement of correct grammatical patterns and idiomatic use of language. Study of selected literary and cultural texts and films from German-speaking countries. Two semesters.									
	Enrollment Limit: 18									
	Attributes: Humanities A: Meaning, Interpretation (Texts)									
		2090	001	1.0	Margaret Suzanne Hamilton Reif	M W F	10:30AM	11:30AM	HLL6	1
GERM	**H201A**	**Advanced Training: Language, Text, and Context**								
	This course is intended for students who wish to refine their speaking, writing, and reading skills beyond the Intermediate level. Designed as a comprehensive introduction to modern German culture, we will discuss a variety of literary, political, historical and philosophical texts, including feature films and video materials. Weekly grammar reviews will complement these activities.									
	Enrollment Limit: 18									
	Attributes: Humanities A: Meaning, Interpretation (Texts) B: Analysis of the Social World									
		2091	001	1.0	Margaret Strair	M W	11:30AM	1:00PM	HLL107	13
GREK	**H002A**	**Elementary Greek**								
	Completion of the basics of ancient Greek, followed by readings in Lysias and Plato. This is the second semester of a year-long course.									
	Attributes: Classics A: Meaning, Interpretation (Texts) Humanities									
		1446	001	1.0	Hannah Rose Silverblank	M W F	9:30AM	10:30AM	LUT211	7
GREK	**H101A**	**Introduction to Greek Literature: Worlds of Wonder**								
	This intermediate ancient Greek course offers students a chance to develop their skills in reading literary, historical, and philosophical prose. Students will continue to build grammar, vocabulary, and facility with different Greek dialects through the reading of extensive passages from authors including Herodotus, Plato, Plutarch, Lucian, Palaephatus, and others. Readings will be thematically organized around the concepts of wonder, marvel, world-building, travel, ethnography, and cultural identity.									
	Prerequisite(s): GREK 002 or equivalent, or instructor consent									
	Attributes: A: Meaning, Interpretation (Texts) Humanities									
		1450	001	1.0	Hannah Rose Silverblank	M W F	11:30AM	12:30PM	LUT211	6
HIST	**H115A**	**Postcards from the Atlantic World**								
	An exploration of the movement of peoples, goods and ideas across the four continents that border the Atlantic basin (Africa, Europe, North America and South America) over the transformative periods of exploration and empire from the fifteenth to the nineteenth centuries.									
	Enrollment Limit: 25									
	Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Social Science									
		1802	001	1.0	Bethel A. Saler	M W	11:30AM	1:00PM	HLL112	6
HIST	**H118A**	**Introduction to the History of Science**								
	Although science is an essential characteristic of the modern world, it took nearly 4000 years to attain that status. This course surveys various sciences in the past focusing on both how and why humans have interrogated the natural world, how they have categorized the resulting knowledge, and what uses they have made of it. Topics can include science and medicine in antiquity, Islamic sciences, Byzantine and medieval sciences, early-modern science and the Scientific Revolution.									
	Enrollment Limit: 25									
	Attributes: Social Science B: Analysis of the Social World A: Meaning, Interpretation (Texts)									
		1801	001	1.0	Darin Hayton	T Th	8:30AM	10:00AM	HLL112	36
HIST	**H226A**	**Twentieth Century Europe**								
	The emergence of the culture of Modernism; revolutionary dreams and Stalinist nightmares in Russia; Fascism; the trauma of									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		war 1914-1945; the divisions of Cold War Europe; and the challenge of a new European attempt at re-integration in the 1990s. *Attributes: A: Meaning, Interpretation (Texts) Social Science B: Analysis of the Social World*								
		1805	001	1.0	Linda Gerstein	M W	11:30AM	1:00PM	HLL201	9
HIST	**H231A**	**Imagining Enlightenment in 18th-Century Europe**								
		This course approaches the Enlightenment as a process of political and cultural change rather than a canon of great texts. Special emphasis will be placed on the emergence of a public sphere and new forms of sociability as distinguishing features of 18th century European life. *Attributes: B: Analysis of the Social World Social Science A: Meaning, Interpretation (Texts)*								
		1804	001	1.0	Lisa Jane Graham	T Th	2:30PM	4:00PM	VCAM201	12
HIST	**H240A**	**History and Principles of Quakerism**								
		The development of Quakerism and its relationship to other religious movements and to political and social life, especially in America. The roots of the Society of Friends in 17th-century Britain, and the expansion of Quaker influences among Third World populations, particularly the Native American, Hispanic, east African, and Asian populations. Crosslisted: Religion, History Enrollment Limit: 35 *Attributes: B: Analysis of the Social World Social Science*								
		2664	001	1.0	Emma Lapsansky	T Th	11:30AM	1:00PM	GST101	3
HIST	**H245A**	**Russia in the 20th Century**								
		Continuity and change in Russian and Soviet society since the 1890s. Major topics: the revolutionary period, the cultural ferment of the 1920s, Stalinism, the Thaw, the culture of dissent, and the collapse of the system. Open only to first-year students as assigned by the Director of College Writing. Enrollment Limit: 12 *Attributes: First Year Writing*								
		1806	001	1.0	Linda Gerstein	T Th	11:30AM	1:00PM	HLL201	13
HIST	**H253A**	**The History of the US Built Environment, 1870 to the Present**								
		This course looks at the history of the U.S. through its built environment, or the physical spaces & landscapes through which Americans constructed their habits, hopes, and divisions. We will investigate how struggles over the U.S. polity came to be reflected in the built world. Topics include the creation of property, the building of the metropolis, the making of the suburbs, electrification and the highways, urban crisis, and the postindustrial landscape. Enrollment Limit: 25 *Attributes: Social Science B: Analysis of the Social World A: Meaning, Interpretation (Texts) Environmental Studies*								
		1807	001	1.0	Andrew Friedman	M W	11:30AM	1:00PM	HLL7	23
HIST	**H284A**	**Native American History**								
		1803	001	1.0	Bethel A. Saler	M W	2:30PM	4:00PM	HLL201	11
HIST	**H291A**	**Indigenous Women: Gender, Ethnicity and Feminism in Latin America**								
		This course gives students an introduction to the themes and debates in the intersectional fields of Gender and Women's Studies, Race, Ethnic and Indigenous Studies, Latin American History, and Feminist Theory. Pre-requisite(s): None Lottery Preference: History majors, first and second year students, LAILS, and GenSex concentrators, with first priority for History and LAILS. Enrollment Limit: 25 *Attributes: Social Science A: Meaning, Interpretation (Texts) Latin American, Iberian, and Latinx Studies Gender and Sexuality Studies B: Analysis of the Social World*								
		2429	001	1.0	Marlén Rosas	M W	10:00AM	11:30AM	HLL107	15
HIST	**H292A**	**Material Culture in China**								
		This course offers an overview of China's social, cultural and political history during the early modern and modern periods. But it does so by confronting material objects, placing them at the center of historical inquiry. We will investigate how material objects marked status and social distinction; how they served as expressions of gender, ethnic and class identity; and how during the modern period they morphed into symbolic tools of imperialist and nationalist projects.								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		Crosslisted: EALC. Lottery Preference: History majors, EALC majors, sophomores Enrollment Limit: 25 *Attributes: Social Science A: Meaning, Interpretation (Texts) B: Analysis of the Social World*								
		2571	001	1.0	Elif Akcetin	T Th	10:00AM	11:30AM	HLL6	1
HIST	**H317B**	**Topics in Latin American Hist: The Struggle for Knowledge: Social Movements, Education & Liberation** This course examines the revolutionary politics, emancipatory pedagogies, and struggles for liberation espoused by grassroots intellectuals and social movements in modern Latin American history. *Attributes: A: Meaning, Interpretation (Texts) Latin American, Iberian, and Latinx Studies B: Analysis of the Social World Visual Studies Social Science*								
		2233	001	1.0	Marlén Rosas	W	1:30PM	4:00PM	STO301	9
HIST	**H347A**	**Topics in East Asian History: The Art of Governance in High Qing China** This seminar explores the cultural operations of state agencies during China's long eighteenth-century, as they unfolded in bureaucratic and legal systematization, knowledge making, textual production, bodily performances and gestures, the taxonomization of space, people, and material objects, and the representation of social, gender and ethnic identities, among others. We will ask: How did governing elites structure the social world and translate it into administrative language and practice? What strategies of representation and technologies of rule did they develop to enhance their capacity for control and their ability to grasp the complexities of the territories and people under their governance? Crosslisted: History, East Asian Languages & Cultures Prerequisite(s): Sophomore standing and above or instructor consent. *Attributes: B: Analysis of the Social World Social Science East Asian Languages and Cultures A: Meaning, Interpretation (Texts)*								
		2235	001	1.0	Elif Akcetin	Th	1:30PM	4:00PM	UN114	3
HIST	**H350A**	**Topics in the History of Science: Technologies of Time** *Attributes: A: Meaning, Interpretation (Texts) Social Science B: Analysis of the Social World*								
		1813	001	1.0	Darin Hayton	T	1:30PM	4:00PM	GST102	4
HIST	**H399A**	**Topics in Active History: History of Black Lives Matter** This course teaches students, in a collaborative setting, the practice of "active history." This is the dynamic praxis of deep history and nimble historical work as a mode of explaining, explicating and intervening in an urgent and shifting present. Topics will change in response to issues of contemporary import. Students will play a role in collaborative syllabus and curricular design. Crosslisted: AFST. Pre-requisite(s): Change depending on topic. For this iteration, at least one course in Africana Studies, Black Studies or equivalent experience. Enrollment Limit: 15 Lottery Preference: Change depending on topic. For this iteration, History and Africana students, sophomores *Attributes: A: Meaning, Interpretation (Texts) Africana Studies B: Analysis of the Social World Social Science*								
		1808	001	1.0	Andrew Friedman	M	1:30PM	4:00PM	HLL7	5
HIST	**H400A**	**Senior Thesis Seminar** History 400a thesis seminar is the senior research lab for thesis work. Students enrolled in the one-semester option will submit their thesis on the last day of class, and work with their assigned faculty advisor throughout the semester. Students will continue on to History 400b in the spring where they will work with their assigned faculty advisor to complete the writing and revision of the thesis. *Attributes: Social Science*								
		1810	001	1.0	Lisa Jane Graham	T	7:30PM	10:00PM	LUT211	7
		1811	002	1.0	Bethel A. Saler	T	7:30PM	10:00PM	HLL112	4
HLTH	**H211A**	**Urban Places, Historical Spaces: Society, Health, and Social Justice in Philadelphia** Cities are dynamic sites of social change and social tension; impacted by migration, globalization, de/industrialization and								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld

technological shifts, Philadelphia is both the birthplace of American democracy and the nation's poorest large city. This course will take a broad view of the nation's first capital, in anthropological, geographic, and historical perspective. Our primary themes will be social justice and health. We will explore and analyze health, activism, inequalities, and social movements in the city through various lenses, including: food; migration and ethnic enclaves; the built environment; race, class and space; tourism and historical memory; policing; and education. This course is part of the Tri-Co Philly program and does NOT take place on campus; rather students will spend one week engaging in reading and discussion on our topics at the Friends Center in Center City and the following week visiting field sites throughout the city, engaging with speakers and conducting anthropological observation. All course travel costs are covered by the Tri-Co Philly Program. Students can learn more about the course at the Tri-Co Philly website (https://www.haverford.edu/philly-program/courses), which features course descriptions, scheduling information and faculty videos about the courses. Lottery Preference(s): five students per Tri-Co school, with any extra seats going to Bi-Co students, if Swarthmore seats aren't taken.
Enrollment Limit: 15, Five seats reserved per Tri-Co school, with any extra seats going to Bi-Co students, if Swarthmore seats aren't filled.
Lottery Preference(s): Bi-Co: senior Health Studies minors, junior Health Studies minors, seniors, juniors, sophomores. Swarthmore: seniors, juniors, sophomores.
Attributes: Health Studies B: Analysis of the Social World Social Science

		2199	001	1.0	Patricia L. Kelly	W	10:15AM	12:45PM	FRDCTR1	14

HLTH H265A Medical Anthropology

Are our bodies, ourselves lively artifacts? How do social, cultural and political forces shape health, illness and survival as well as understandings and experiences of "the body"? This introductory course in medical anthropology approaches these questions by examining ethnographic studies and cross-comparative analyses. Topics include diverse concepts of disease etiology and healing practice; theories of embodiment and somatization; ethnomedicine, medical pluralism, and (bio)medicalization; structural violence, inequalities, and social suffering; political and moral economies of global health and medical humanitarianism; HIV/AIDS and other infectious diseases; and effects of new medical technologies on how "we" live and die.
Enrollment Limit: 25
Lottery Preference(s): 1.) Health Studies minors 2.) Anthropology majors and minors
Attributes: Humanities B: Analysis of the Social World Health Studies

		1368	001	1.0	Patricia L. Kelly	T Th	1:00PM	2:30PM	UNMAC	8

HLTH H302A Care and Social Action in Contexts of Inequality

This course brings together questions and texts about social justice, health, and social action, especially during health emergencies. The course integrates the humanities and social medicine through cross-disciplinary readings about witnessing and representing inequalities, cultural conceptions of health, structural determinants of health, and models of care. Will also draw on students' own experiences giving and receiving care, on historical and current examples of care, and on literary and visual representations of caregiving.
Enrollment Limit: 15
Lottery Preference(s): First, Health Studies seniors; second, students who must satisfy the academic requirement for CPGC internships; third priority to declared Health Studies juniors and students with health-related independent majors; fourth priority to students who completed Jaharis internships or have been accepted into the Haverford-Jefferson Medical School Early Admissions Program. Others can enroll if space permits.
Attributes: B: Analysis of the Social World Health Studies Social Science Peace, Justice and Human Rights

		2197	001	1.0	Carol Schilling	T Th	2:30PM	4:00PM	UNMAC	15

HLTH H305A The Logic and Politics of Global Health

This course engages critically with changing intervention paradigms in global health from the late colonial period to the present. Topics include colonial and missionary medicine; sanitation and segregation; medicalization of reproduction; eradication campaigns; family planning; labor hierarchies; postcolonial technoscience; medical research.
Prerequisite(s): HLTH 115 OR at least one course in anthropology or history
OR permission of the instructor
Enrollment Limit: 15
Lottery Preference(s): Health Studies seniors, Health Studies juniors, Anthropology majors or minors, Africana Studies

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	concentrators.									
	Attributes: B: Analysis of the Social World Health Studies Social Science Africana Studies									
		2198	001	1.0	Anna M West	T Th	11:30AM	1:00PM	UN111	21
HLTH	**H315A**	**Cancer Narratives**								
	Cancer is not merely the leading cause of mortality, but a significant metaphor to understand human experience in contemporary society. Despite triumphant hype of paradigm-shifts in clinical medicine, less attention has been paid to illness experiences of cancer patients, which cannot be reduced to numbers and diagnosis in description. Their living with uncertainties and hope, and navigating therapeutic and moral landscapes in resource-limited circumstances provide a lens to critically examine healthcare system and sociopolitical conditions.									
	Pre-requisite(s): Any previous course in Health Studies									
	Enrollment Limit: 15									
	Lottery Preference: First, Health Studies seniors; Second, Health Studies juniors, then Anthropology majors.									
	Attributes: B: Analysis of the Social World Social Science Health Studies									
		2200	001	1.0	Young Su Park	W	1:30PM	4:00PM	UN111	20
HLTH	**H498A**	**Senior Thesis Seminar: Supervised Research and Writing**								
	Thesis advising for independent majors that are related to Health Studies.									
		2201	001	1.0	Anna M West	T	1:30PM	4:00PM	UN111	4
ICPR	**H110J**	**Belonging and Becoming at Haverford College**								
	This course creates a curricular space dedicated to acknowledging, exploring, and acting on diversity and inclusion as experienced (differently) by members of our community and working collaboratively toward greater equity. This course is graded universal P/F in which no numerical grade is assigned.									
	Cross Listed: none									
	Prerequisites: none									
	Enrollment Limit: 10 (5 sections of 10 students)									
		2202	001	.5	Alison Cook-Sather					0
		2203	002	.5	Brook Danielle Lillehaugen					3
ICPR	**H116A**	**Ethical Struggles in Catastrophic Times: Quakers' Responses to the Holocaust**								
	An examination of some of the remarkable--and highly controversial--activities in which Quakers engaged as they tried to provide assistance to Jews who were being persecuted by the Nazis.									
	Crosslisted: Independent College Programs; Religion; Peace, Justice and Human Rights									
	Enrollment Limit: 15									
	Attributes: Peace, Justice and Human Rights Humanities B: Analysis of the Social World A: Meaning, Interpretation (Texts)									
		2007	001	1.0	David Harrington Watt	T Th	1:00PM	2:30PM	FDR220	4
ICPR	**H146F**	**Ethics and the Use of Mathematics, with a Focus on Anti-Racism**								
	This seminar will explore what it means to "do math ethically", to emphasize the ways in which mathematics is inherently political, and to think about anti-racism in mathematical disciplines.									
	This course is graded P/F.									
	Crosslisted: Independent College Programs, Mathematics									
	Enrollment Limit: 12									
		2338	001	.5	Tarik Aougab	W	2:30PM	4:00PM	STO18	5
ICPR	**H190A**	**Introduction to Feminist and Gender Studies**								
	This course introduces students to major debates and issues within the interdisciplinary field of Feminist and Gender Studies. We will explore what feminist scholars have illuminated about the construction of gender and sexuality in multiple historic, present-day, and global contexts. Students will examine feminist debates about how race, class, and religion shape gender and sexuality in unequal ways. And, students will develop the skills to analyze how gender and sexuality have been regulated, reinforced, and transgressed in diverse settings.									
	Enrollment Limit: 25									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		Lottery Preference(s): Gen/Sex concentrators, then first years and sophomores.								
		Attributes: Humanities A: Meaning, Interpretation (Texts) Gender and Sexuality Studies B: Analysis of the Social World								
		2476	001	1.0	TBA Department staff	T Th	10:00AM	11:30AM	UNMAC	7
ICPR	**H290A**	**Interdisciplinary Perspectives on Gender**								
		Explore the intersection of gender, sexuality, race, class, religion, and embodiment in our time. Our focus is principally on the USA, though we make some forays into international conversations. Readings are drawn from a smattering of the most recent developments in academic research and theory, as well as from science fiction, activism, popular culture, and new media. We work to bring the personal into the classroom, and to take what we learn out into the world.								
		Enrollment Limit: 10								
		Lottery Preference(s): 1. Gen/Sex Concentrators 2. Juniors and Seniors								
		Attributes: A: Meaning, Interpretation (Texts) Humanities Gender and Sexuality Studies								
		2068	001	1.0	Molly Farneth	T	1:30PM	4:00PM	UN114	7
ICPR	**H298A**	**Impact Investing**								
		Impact investing is investing to generate both a financial return and a positive social benefit. It supports firms seeking to address social, environmental and /or governance problems (ESG) in a sustainable way often within market activity. The focus of this course is to not only gain an understanding of the theory and practice of impact investing across its many components, but also to gain practical experience by assessing a particular set of potential impact investments, making formal presentations of findings to an investment committee leading to a recommendation for investment to a partnering foundation.								
		Crosslisted: Economics, Independent College Programs, PJHR								
		Prerequisite(s): ECON 104 or 105 or 106								
		Enrollment Limit: 16								
		Attributes: B: Analysis of the Social World Peace, Justice and Human Rights B: Analysis of the Social World Social Science Social Science Peace, Justice and Human Rights								
		1994	001	1.0	Shannon B. Mudd	F	12:00PM	1:00PM	VCAM102	0
		1994	001	1.0	Shannon B. Mudd	M W	11:30AM	1:00PM	VCAM102	0
ICPR	**H301A**	**Development, Human Rights, and Transnational Injustices**								
		What are the worldwide obstacles to peace and justice? How can we surmount them? This course examines theories of some of the leading obstacles to peace and justice worldwide, and of what global citizens can do about them. The three obstacles we consider are colonialism and its legacies, whether we live in a global racial order, and whether the global economic order harms the poor and does them a kind of violence. The two solutions we will consider are the project of economic and social development, and the practice of human rights. The course aims, first, to give students some of the knowledge they will need to address these problems and be effective global citizens. Second, to understand some of the major forces that shape the present world order. Third and finally, to hone the skills in analysis, theory-building, and arguing that are highly valued in legal and political advocacy, in public life and the professions, and in graduate school.								
		Crosslisted: Independent College Programs, Political Science								
		Enrollment Limit: 15								
		Lottery Preference(s): Returning CPGC Interns								
		Attributes: Peace, Justice and Human Rights Social Justice B: Analysis of the Social World Social Science								
		1625	001	1.0	Thomas J. Donahue	M	1:30PM	4:00PM	STO104	4
ITAL	**H001A**	**Beginning Italian I**								
		The course is for students with no previous knowledge of Italian. It aims at giving the students a complete foundation in the Italian language, with particular attention to oral and written communication. The course will be conducted in Italian and will involve the study of all the basic structures of the language—phonological, grammatical, syntactical—with practice in conversation, reading, composition. Readings are chosen from a wide range of texts, while use of the language is encouraged through role-play, debates, songs, and creative composition.								
		Enrollment Limit: 15								
		Attributes: Humanities A: Meaning, Interpretation (Texts)								
		2112	001	1.0	Daria Bozzato	M T W Th F	8:30AM	9:30AM	HLL106	12

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		2113	002	1.0	Daria Bozzato	M T W Th F	9:30AM	10:30AM	HLL106	7
		2129	001	1.5	Tetsuya Sato	M W F	8:30AM	9:30AM	STO18	26
		2132	002	1.5	Yuka Usami Casey	M W F	9:30AM	10:30AM	STO18	13
		2137	003	1.5	Yuka Usami Casey	M W F	11:30AM	12:30PM	STO18	10
		2130	00A	.0	Kei Walsh	T Th	8:30AM	10:00AM	STO18	28
		2131	00B	.0	Michi Davis	T Th	10:00AM	11:30AM	STO18	10
		2138	00C	.0	Michi Davis	T Th	11:30AM	1:00PM	STO18	11
JNSE	**H003A**	**Second-Year Japanese**								
	Class meets five hours per week. Students must register for sections 1 or 2 and A or B. A continuation of first-year Japanese, with a focus on the further development of oral proficiency, along with reading and writing skills. (Students are not required to take both semesters.) Prerequisite(s): First-year Japanese or equivalent or instructor consent Enrollment Limit: 18 *Attributes: A: Meaning, Interpretation (Texts) Humanities East Asian Languages and Cultures*									
		2183	001	1.0	Kimiko Suzuki	M W F	8:30AM	9:30AM	STO14	11
		2184	002	1.0	Kimiko Suzuki	M W F	9:30AM	10:30AM	STO14	9
		2185	00A	.0	Kimiko Suzuki	T Th	10:30AM	11:30AM	STO14	7
		2186	00B	.0	Kimiko Suzuki	T Th	11:30AM	12:30PM	STO14	13
JNSE	**H101A**	**Third-Year Japanese**								
	Class meets three hours per week. A continuation of language study with further development of oral proficiency and reading/writing skills. Emphasis on reading and discussing simple texts. Advanced study of grammar and kanji; more training in opinion essay and report writing. Additional oral practice outside of the classroom expected. Prerequisite(s): JNSE 004 or equivalent or instructor consent Enrollment Limit: 18 *Attributes: Humanities A: Meaning, Interpretation (Texts) East Asian Languages and Cultures*									
		2135	001	1.0	Tetsuya Sato	M W F	11:30AM	12:30PM	STO16	5
JNSE	**H201A**	**Advanced Japanese: Discerning Hidden Meanings in Japanese Media**								
	Class meets three hours per week. Continued training in modern Japanese, with particular emphasis on reading texts, mastery of the kanji, and expansion of vocabulary. Explores a variety of genres and text types using authentic materials. Prerequisite(s): JNSE 102 or equivalent or instructor consent Enrollment Limit: 18 *Attributes: A: Meaning, Interpretation (Texts) Humanities East Asian Languages and Cultures*									
		2136	001	1.0	Kimiko Suzuki	M W	11:30AM	1:00PM	STO14	13
LATN	**H001A**	**Elementary Latin**								
	Introduction to the Latin language. Our main focus will be on learning to read classical Latin texts, studying the vocabulary and grammar necessary to read the great works of ancient Latin poetry and prose, as well as familiarizing ourselves with the mythology, history, and culture of the Romans. We'll also spend some time learning to converse and write in Latin, joining a history of conversation that stretches from the early Latin speakers of southern Europe and northern Africa, to the learned humanists of the Renaissance, and down to the present day. This is the first semester of a year-long course. *Attributes: A: Meaning, Interpretation (Texts) Humanities*									
		1447	001	1.0	Bret Mulligan	M W F	10:30AM	11:30AM	HLL201	16
LATN	**H102A**	**Intermediate Latin: Poetry and Biography in the Roman Republic**								
	Our focus in this intermediate language course will be on reading and analyzing selections from two Latin texts, Catullus' Carmina (Poems) and the Life of Atticus by Cornelius Nepos. Through this exercise, we will review various aspects of Latin grammar and develop sound reading strategies as we continue our study of Latin together. We will also pay special attention to many cultural, literary, and historical issues that intersect with these two texts, their authors, and their Roman context.									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Prerequisite(s): LATN 002 or instructor consent for students with strong HS prep *Attributes: Humanities A: Meaning, Interpretation (Texts) Classics*									
		1448	001	1.0	Charles N. Kuper	M W F	10:30AM	11:30AM	HLL106	10
LATN	**H211A Advanced Latin Literature: The Good Life** In this course we will explore several different ancient formulations of “The Good Life” (e.g., Popular, Stoic, Epicurean, Christian) as they emerge from classical Latin texts in prose and verse, with the goal of becoming better readers of Latin. Our work will include a collaborative project in which we produce something of common value (e.g., a student-focused commentary on one of the texts, or a "Live Like an Epicurean" handbook for experiential learning). Sample readings: Publilius Syrus or Valerius Maximus; Cicero's Somnium Scipionis or Tusculans 5; Horace's Epistles; Seneca's Letters; the Life of Elagabalus; the Passion of Perpetua and Felicitas or the Life of Malchus the Enslaved Monk or Prudentius' Psychomachia, inscriptions and other documentary evidence. Prerequisite(s): Two semesters of 100-level Latin, or instructor consent *Attributes: A: Meaning, Interpretation (Texts) Humanities*									
		2391	001	1.0	Bret Mulligan	T Th	2:30PM	4:00PM	HLL107	16
LING	**H101A Introduction to Linguistics** An introductory survey of linguistics as a field. This course examines the core areas of linguistic structure (morphology, phonology, syntax, semantics), pragmatics, and language variation in relation to language change. The course provides rudimentary training in the analysis of language data, and focuses on the variety of human language structures and on the question of universal properties of language. Enrollment Limit: 25, 10 spaces reserved for incoming first year students Lottery Preference(s): (1) Sr. Ling Majors (2) Jr. Ling Majors (3) Sr. Ling Minors (4) Jr. Ling Minors (5) Neuroscience minors (6) sophomores (7) first years (8) everyone else (jrs/seniors) *Attributes: B: Analysis of the Social World Humanities A: Meaning, Interpretation (Texts)*									
		2213	001	1.0	Brook Danielle Lillehaugen	M W	1:00PM	2:30PM	HLS108	22
		2587	002	1.0	David Wilson	M W	1:00PM	2:30PM	UNMAC	21
LING	**H113A Introduction to Syntax** This course is a hands-on investigation of sentence structures in human language. This is a participation intensive course. Collectively, the class will develop an increasingly complex syntactic theory starting with basic assumptions and seeing where they lead. In the process, students will develop skills in observing syntactic patterns and analyzing these patterns in order to come to some generalizations on their own. Enrollment Limit: 25 Lottery Preference(s): (1) Sr. Ling Majors (2) Jr. Ling Majors (3) Sr. Ling Minors (4) Jr. Ling Minors (5) Neuroscience minors (6) sophomores (7) first years (8) everyone else (jrs/seniors) *Attributes: Symbolic Reasoning B: Analysis of the Social World Humanities Neuroscience*									
		2208	001	1.0	Amanda Payne	M W	10:00AM	11:30AM	STO102	25

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
LING	**H115A**	**Phonetics and Phonology**								
	This course investigates the sound patterns found in human languages. Phonetics is the study of these patterns from a physical and perceptual perspective while phonology is the study of sound patterns from a cognitive perspective. Activities in the class will expose students to the methodologies used by both perspectives (articulatory description and acoustic analysis for phonetics and formal theoretical models for phonology) and show the necessity and utility of both approaches in understanding the nature of sound patterns in human language. Enrollment Limit: 25 Lottery Preference(s): (1) Sr. Ling Majors (2) Jr. Ling Majors (3) Sr. Ling Minors (4) Jr. Ling Minors (5) Neuroscience minors (6) sophomores (7) first years (8) everyone else (jrs/seniors) *Attributes: Symbolic Reasoning B: Analysis of the Social World Humanities*									
		2593	001	1.0	David Wilson	M W	2:30PM	4:00PM	CHS101	9
LING	**H209A**	**Morphological Reinflection**								
	Morphological reinflection is the machine learning problem of developing automated tools to convert a word marked for one category into its corresponding form in another category (e.g., running to ran). The difficulty varies with the complexity of the language's inflectional system and the resources available for that language. We will study current methods for solving this problem, using many example languages to understand what aspects of linguistic structure prove most challenging for this computational task. Crosslisted: Linguistics, Computer Science Pre-requisite(s): LING 204 OR CMSC 104 OR CMSC 105/106 OR CMSC 107 (or BMC equivalents). LING 101 and SWAT LING 043 are desirable, but not required. Enrollment Limit: 15 Lottery Preference: 1) senior LING and CMSC majors, 2) junior majors, 3) all LING/CMSC minors, 4) everyone else. *Attributes: Natural Science C: Physical and Natural Processes*									
		2215	001	1.0	Jane Chandlee	M W	2:30PM	4:00PM	STO102	6
LING	**H214A**	**Spanish in the US: Language, identity and politics**								
	The course introduces students to basic concepts of (critical) sociolinguistics with a focus on Spanish in the US. It examines the history and politics of Spanish in the US, the relationship of language to Latinx identities, and how language ideologies and policies reflect and shape societal views of Spanish and its speakers (and contribute to discrimination and social injustices). Course taught in Spanish. Prerequisite(s): Course at the 200-level in Spanish or Linguistics Enrollment Limit: 25 Lottery Preference(s): 1. Spanish and Linguistics Majors, LAILS concentrators 2. Seniors and Juniors *Attributes: Latin American, Iberian, and Latinx Studies A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities*									
		2259	001	1.0	Ana López-Sánchez	T Th	2:30PM	4:00PM	STO18	8
LING	**H215A**	**The Structure of Colonial Valley Zapotec**								
	A detailed examination of the grammar of Colonial Valley Zapotec, an indigenous language of Oaxaca, Mexico. Focus on hands-on research, morphological analysis, and translation of archival documents. Prerequisite(s): LING 113; and one of the following: LING 101, 114, 115, or instructor consent Enrollment Limit: 15 *Attributes: A: Meaning, Interpretation (Texts) Humanities Latin American, Iberian, and Latinx Studies B: Analysis of the Social World*									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		2209	001	1.0	Brook Danielle Lillehaugen	T Th	1:00PM	2:30PM	STO102	16
LING	**H281A**	**Semantics II**								
	This course familiarizes students with original research in semantics. We review the basics of formal pragmatics, compositional semantics, lambda calculus, and event semantics. Then we read and discuss a selection of research articles, culminating in a final research project. Prerequisite(s): LING 114 Enrollment Limit: 15 Lottery Preference(s): Linguistics majors, Linguistics minors, then first years and sophomores, then juniors, then seniors. *Attributes: Social Science B: Analysis of the Social World*									
		2210	001	1.0	Amanda Payne	M W	11:30AM	1:00PM	STO102	5
LING	**H325A**	**Computational Linguistics**								
	An overview of key areas of computational linguistics, including natural language processing and computational modeling of morpho-phonological systems. Students will study and practice the primary algorithms and techniques used in the automated analysis of natural language data. Crosslisted: Computer Science, Linguistics Prerequisite(s): CMSC 105 and CMSC 106 (or CMSC 107), OR CMSC B110 and CMSC B206, OR instructor permission. Enrollment Limit: 25 Lottery Preference(s): Computer Science and Linguistics Majors *Attributes: Natural Science*									
		1714	001	.0	Alvin Grissom	M W	2:30PM	4:00PM	SHA113	6
		1712	00A	1.0	Alvin Grissom	W	11:30AM	12:30PM	HLS110	3
		1713	00B	1.0	Alvin Grissom	W	12:30PM	1:30PM	HLS110	3
LING	**H399A**	**Senior Thesis Seminar**								
	This seminar exposes students to linguistic research methods and guides them through the conceptualization of a topic, the research, and the writing of a senior thesis. All linguistics majors must write their senior thesis in this seminar or Ling S100 or S195. Enrollment limited to 15 students, Senior linguistics majors only. *Attributes: Humanities A: Meaning, Interpretation (Texts) B: Analysis of the Social World*									
		2211	001	1.0	Jane Chandlee	F	1:30PM	4:00PM	STO102	4
		2212	002	1.0	Shizhe Huang	F	1:30PM	4:00PM	STO102	3
MATH	**H105A**	**Applied Modeling with Calculus**								
	An introduction to aspects of calculus useful in applied work in the natural and social sciences, with a strong emphasis on developing mathematical modeling skills. Topics include differential and integral calculus of functions of one variable, multivariable optimization, and modeling with differential equations. Applications to biology, economics, and physics. This course is taught at the level of a beginning calculus course, and no prior calculus experience is assumed. Prerequisite(s): Not open to students placing into MATH 118 or higher or Math 105 cannot be taken by students who have AP credit for calculus or with previous calculus credit, except with instructor consent Enrollment Limit: 40 *Attributes: Quantitative C: Physical and Natural Processes Natural Science*									
		2326	001	1.0	Xiang Wan	M W F	10:30AM	11:30AM	TRLR-OBS	13
		2537	002	1.0	Xiang Wan	M W F	11:30AM	12:30PM	TRLR-OBS	5
MATH	**H118A**	**Calculus: Dynamics and Integration**								
	A study of the evolution of systems defined by difference and differential equations. Methods of analysis come from calculus: the limit, the derivative, and the integral from numerical, graphical, and symbolic perspectives. Not open to students placing into Math 121 or higher, except with instructor permission. Prerequisite(s): MATH 105 or placement. Not open to students with credit for MATH B102 (Calculus II) or equivalent, except with instructor consent Enrollment Limit: 24 *Attributes: C: Physical and Natural Processes Natural Science Quantitative*									
		2277	001	1.0	Rebecca Everett	M W	10:00AM	11:30AM	HLS109	5

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		2278	002	1.0	Rebecca Everett	M W	11:30AM	1:00PM	HLS109	14
		2319	003	1.0	Liem Nguyen	M W	1:00PM	2:30PM	HLS109	14
		2335	004	1.0	Liem Nguyen	M W	2:30PM	4:00PM	HLS109	5
MATH	**H118B**	**Calculus: Dynamics and Integration**								
	A study of the evolution of systems defined by difference and differential equations. Methods of analysis come from calculus: the limit, the derivative, and the integral from numerical, graphical, and symbolic perspectives. Not open to students placing into Math 121 or higher, except with instructor permission. Prerequisite(s): MATH 105 or placement. Not open to students with credit for MATH B102 (Calculus II) or equivalent, except with instructor consent Enrollment Limit: 24 *Attributes: C: Physical and Natural Processes Natural Science Quantitative*									
		2538	005	1.0	Liem Nguyen	M W	10:00AM	11:30AM	CHS101	0
MATH	**H121A**	**Multivariable Calculus**								
	An introduction to functions of several variables, vector geometry, partial derivatives, optimization, Taylor’s Theorem, multiple integrals, line integrals, and Green’s and Stokes’ Theorems. Prerequisite(s): MATH 118 or equivalent placement, or instructor consent. Not open to students who have previously taken multivariable calculus at the college level, either at Haverford or elsewhere, except with instructor consent Enrollment Limit: 30 Class also includes 2 hours of asynchronous lecture *Attributes: Natural Science Quantitative Biophysics C: Physical and Natural Processes*									
		2279	001	1.0	David Lippel	M W	10:30AM	11:30AM	HLS11	3
		2280	002	1.0	David Lippel	M W	12:30PM	1:30PM	HLS11	7
		2296	003	1.0	Timur Akhunov	M W	11:30AM	12:30PM	ESTW309	4
		2336	004	1.0	Timur Akhunov	M W	10:30AM	11:30AM	ESTW309	2
		2539	005	1.0	Timur Akhunov	M W	1:30PM	2:30PM	HLS11	3
MATH	**H146F**	**Ethics and the Use of Mathematics, with a Focus on Anti-Racism**								
	This seminar will explore what it means to “do math ethically”, to emphasize the ways in which mathematics is inherently political, and to think about anti-racism in mathematical disciplines. This course is graded P/F. Crosslisted: Independent College Programs, Mathematics Enrollment Limit: 12									
		2337	001	.5	Tarik Aougab	W	2:30PM	4:00PM	STO18	9
MATH	**H203A**	**Statistical Methods and their Applications**								
	An introduction to statistical methods used to analyze data in the natural and social sciences. It covers descriptive statistics, the binomial and normal distributions, expected value and variance, confidence intervals and hypothesis testing, comparison of two samples, regression, and analysis of variance. A required computer lab, using R, is taught alongside this course. Crosslisted: Mathematics, Statistics Prerequisite(s): MATH 118 or higher, placement into MATH 121 or higher, or instructor consent. Students who have taken another introductory statistics course at Haverford or Bryn Mawr may only enroll in STAT 203 with instructor consent Enrollment Limit: 20 *Attributes: Quantitative Natural Science Health Studies C: Physical and Natural Processes*									
		2284	001	1.0	Weiwen Miao	M W	10:00AM	11:30AM	SHA113	11
		2285	00A	.0	Weiwen Miao	F	10:00AM	11:30AM	HLS204	11
MATH	**H204A**	**Differential Equations**								
	An introduction to the theory of ordinary differential equations (ODEs) including algebraic techniques for solving a single ODE or a linear system of ODEs, numerical techniques for generating approximate solutions, geometric techniques for displaying solutions to understand their behavior, analyzing nonlinear systems, and some key theorems (such as existence and uniqueness of solutions). The focus of this course will be on applications of the methods and solving real systems.									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Prerequisite(s): MATH 121 or MATH 215 (or 216) or consent of instructor.									
	Enrollment Limit: 30									
	Attributes: Quantitative Natural Science C: Physical and Natural Processes									
		2341	001	1.0	Xiang Wan	M W	2:30PM	4:00PM	HLS11	19
MATH	**H215A Linear Algebra**									
	An abstract introduction to linear algebra, focusing on proof techniques. Topics covered include: vector spaces, linear transformations and matrices, determinants, eigenvalue problems, quadratic forms, and the spectral theorem. One extra hour of weekly discussions.									
	Prerequisite(s): MATH 121 or equivalent placement, or 118 with instructor consent, or CMSC 231									
	Enrollment Limit: 25									
	Attributes: C: Physical and Natural Processes Natural Science Quantitative									
		2271	001	1.0	Jeffrey Tecosky-Feldman	M W F	10:30AM	11:30AM	STO16	26
		2272	002	1.0	Jeffrey Tecosky-Feldman	M W F	12:30PM	1:30PM	STO16	19
		2286	00A	.0	Jeffrey Tecosky-Feldman	Th	9:00AM	10:00AM	HLS11	15
		2287	00B	.0	Jeffrey Tecosky-Feldman	Th	10:30AM	11:30AM	HLS11	10
		2288	00C	.0	Jeffrey Tecosky-Feldman	Th	1:00PM	2:00PM	HLS11	13
		2289	00D	.0	Jeffrey Tecosky-Feldman	Th	2:30PM	3:30PM	HLS11	9
MATH	**H218A Probability**									
	An introduction to probability theory. Topics include: sample spaces, combinatorics, conditional probability, independence, discrete and continuous random variables, functions of random variables, expected value and variance, the moment generating function, and some basic limit theorems.									
	Prerequisite(s): MATH 216 or 121 or consent									
	Attributes: Natural Science C: Physical and Natural Processes Quantitative									
		2283	001	1.0	Lynne M. Butler	M W	2:30PM	4:00PM	HLS108	23
		2342	00A	.0	Lynne M. Butler	F	10:30AM	11:30AM	HLS11	10
		2343	00B	.0	Lynne M. Butler	F	11:30AM	12:30PM	HLS11	5
		2344	00C	.0	Lynne M. Butler	F	12:30PM	1:30PM	HLS11	8
MATH	**H286A Applied Multivariate Statistical Analysis**									
	An introduction to multivariate statistical analysis. The course includes methods for choosing, fitting, and evaluating multiple regression models and analysis of variance models. A required computer lab, using R, is taught alongside this course.									
	Crosslisted: Mathematics, Statistics									
	Prerequisite(s): MATH 215 and one of the following: ECON 204, MATH 203, PSYC 200, SOCL 215									
	Enrollment Limit: 15									
	Lottery Preference(s): Senior and Junior Statistics Minors									
	Attributes: Natural Science Quantitative C: Physical and Natural Processes									
		2321	001	1.0	Weiwen Miao	M W	1:00PM	2:30PM	HLS204	9
		2322	00A	.0	Weiwen Miao	Th	1:00PM	2:30PM	HLS204	9
MATH	**H317A Analysis I**									
	A rigorous development of topics in calculus, including the axioms of the real number line, cardinality, convergence of sequences, point-set topology (open/closed sets, compactness, connectedness), continuity, differentiability, and the Riemann integral. The course also has a major focus on the writing of clear and correct mathematical proofs.									
	Prerequisite(s): MATH 215 and either 121 or 216, or instructor consent									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Attributes: Natural Science Quantitative C: Physical and Natural Processes									
		2281	001	1.0	Robert S. Manning	M W F	10:30AM	11:30AM	CHS104	30
		2294	002	1.0	Robert S. Manning	M W F	11:30AM	12:30PM	CHS104	25
MATH	**H333A Algebra I**									
	A rigorous treatment of fundamental algebraic structures. Topics include: introduction to groups, modular arithmetic, polynomials, rings, fields, Galois theory, vector spaces, and modules.									
	Prerequisite(s): MATH 215 and either 121 or 216, or instructor consent									
	Enrollment Limit: 20									
	Attributes: C: Physical and Natural Processes Natural Science Quantitative									
		2312	001	1.0	Elizabeth Townsend Milicevic	M W F	9:30AM	10:30AM	STO10	24
		2313	002	1.0	Elizabeth Townsend Milicevic	M W F	10:30AM	11:30AM	STO10	17
		2314	00A	.0	Elizabeth Townsend Milicevic	M	1:00PM	2:00PM	ESTW309	16
		2315	00B	.0	Elizabeth Townsend Milicevic	M	2:00PM	3:00PM	ESTW309	12
		2316	00C	.0	Elizabeth Townsend Milicevic	M	3:00PM	4:00PM	ESTW309	12
MATH	**H335A Topology**									
	Generalizes topological concepts from Euclidean spaces to arbitrary topological spaces, and introduces elements of algebraic topology. Concepts covered include continuity, connectedness, and compactness. The course culminates in an exploration of the fundamental group and covering spaces.									
	Prerequisite(s): MATH 317 with MATH 333 as a co-requisite, or instructor consent									
	Enrollment Limit: 15									
	Attributes: C: Physical and Natural Processes Natural Science									
		2323	001	1.0	Tarik Aougab	M W	1:00PM	2:30PM	STO18	15
MATH	**H340A Analysis of Algorithms**									
	Qualitative and quantitative analysis of algorithms and their corresponding data structures from a precise mathematical point of view. Performance bounds, asymptotic and probabilistic analysis, worst case and average case behavior. Correctness and complexity. Particular classes of algorithms such as sorting searching will be studied in detail.									
	Crosslisted: Computer Science, Mathematics									
	Prerequisite(s): CMSC 106 or 107 or B206, and 231, or instructor consent									
	Enrollment Limit: 24									
	Lottery Preferences:									
	1.) Senior CS majors									
	2.) Senior CS minors									
	3.) Junior CS majors and Senior CS concentrators									
	4.) Sophomores and first-year students									
	5.) Others									
	Attributes: Quantitative Natural Science C: Physical and Natural Processes									
		1716	001	.0	Steven Lindell	M W	10:00AM	11:30AM	SHA410	3
		1715	00A	1.0	Steven Lindell	F	10:00AM	11:30AM	SHA410	3
MATH	**H399F Senior Seminar**									
	Seminar for students writing senior papers, dealing with the oral and written exposition of advanced material.									
	Attributes: C: Physical and Natural Processes Natural Science									
		2270	001	.5	Rebecca Everett	F	1:30PM	4:00PM	ESTW309	16
MATH	**H400F Senior Research**									
	Work on Senior Thesis with Advisor.									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Attributes: Quantitative Natural Science C: Physical and Natural Processes									
		2269	001	.5	Tarik Aougab					0
		2273	002	.5	Lynne M. Butler					0
		2274	003	.5	Rebecca Everett					1
		2275	004	.5	Robert S. Manning					0
		2276	005	.5	Weiwen Miao					0
		2290	006	.5	Elizabeth Townsend Milicevic					0
		2360	007	.5	Liem Nguyen					0
		2361	008	.5	Timur Akhunov					0
MATH	**H480A**	**Independent Study**								
	Independent Study									
		2317	001	1.0						0
		2325	002	1.0						0
MATH	**H480F**	**Independent Study**								
		2292	001	.5	Rebecca Everett					1
		2298	002	.5						0
MUSC	**H102F**	**Chorale**								
	Chorale is a large mixed chorus that performs major works from the oratorio repertoire with orchestra and student soloists. Attendance at weekly two-hour rehearsals and dress rehearsals during performance week is required. Entrance by audition. Students can start Chorale at the beginning of any semester. This course is graded universal P/F in which no numerical grade is assigned.									
	Attributes: Humanities									
		1719	001	.5	Nathan Zullinger	W	4:00PM	5:30PM	ROB100	13
		1734	002	.5	Nathan Zullinger	W	7:00PM	8:30PM	ROB100	13
MUSC	**H110A**	**Introduction to Music Theory**								
	An intensive introduction to the notational and theoretical materials of music, complemented by work in sight-singing, keyboard harmony, and dictation. This course is appropriate for students who sing or play an instrument, but who have had little or no systematic instruction in music theory. Topics include time and pitch and their notation, scales, intervals, triads, basic harmonic progressions, melodic construction, harmonization of melody, non-harmonic tones, transposition, and key change (modulation). Students who wish to explore the art of musical composition will find this course especially useful, as two creative projects are assigned: the composition of a pair of melodies in the major and minor modes, and a 32-bar piece which changes key. Preparation for these projects is provided through listening and analysis of works in a variety of musical styles. Students having completed this course will be prepared to enter Music 203, the first semester of the theory sequence for music majors.									
	Attributes: Humanities A: Creative Expression									
		1731	001	1.0	Leonardo Dugan	T Th	11:30AM	1:00PM	ROB200	21
MUSC	**H203A**	**Principles of Tonal Harmony I**								
	The harmonic vocabulary and compositional techniques of Bach, Haydn, Mozart, Beethoven, Schubert, and others. Analysis of musical literature in a variety of genres and harmonization in four parts. Composition of minuet and trio, set of variations, or other homophonic piece is the final project. Requires three class hours plus laboratory period covering related aural and keyboard harmony skills. Required for the Music major and minor; should be taken no later than fall of sophomore year.									
	Prerequisite(s): MUSC 110 or instructor consent									
	Attributes: Humanities A: Creative Expression									
		1721	001	1.0	Leonardo Dugan	T Th	2:30PM	4:00PM	ROB200	12
MUSC	**H208F**	**Private Study: Instrumental**								
	All students enrolled in the private study program should be participating in a departmentally directed ensemble or activity									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		(Chorale, Orchestra, etc.) as advised by their program supervisor. Students receive ten hour-long lessons with approved teachers for one-half credit, graded. All students in the private study program perform for a faculty jury at the end of the semester. Students assume the cost of their lessons, but may apply for private study subsidies at the beginning of each semester's study through the department. *Attributes: A: Creative Expression Humanities*									
		1722	001	.5	Heidi Carolyn Jacob					9
MUSC	**H209F**	**Private Study: Voice**								
		All students enrolled in the private study program should be participating in a departmentally directed ensemble or activity (Chorale, Orchestra, etc.) as advised by their program supervisor. Students receive ten hour-long lessons with approved teachers for one-half credit, graded. All students in the private study program perform for a faculty jury at the end of the semester. Students assume the cost of their lessons, but may apply for private study subsidies at the beginning of each semester's study through the department. *Attributes: A: Creative Expression Humanities*									
		1723	001	.5	Nathan Zullinger					15
MUSC	**H210F**	**Private Study: Keyboard**								
		All students enrolled in the private study program should be participating in a departmentally directed ensemble or activity (Chorale, Orchestra, etc.) as advised by their program supervisor. Students receive ten hour-long lessons with approved teachers for one-half credit, graded. All students in the private study program perform for a faculty jury at the end of the semester. Students assume the cost of their lessons, but may apply for private study subsidies at the beginning of each semester's study through the department. *Attributes: Humanities A: Creative Expression*									
		1724	001	.5	Heidi Carolyn Jacob					6
MUSC	**H214F**	**Chamber Singers**								
		A 30-voice mixed choir that performs a wide range of mostly a cappella repertoire from the Renaissance to the present day, in original languages. The choir performs on and off campus, both public concerts and outreach concerts to underserved audiences. Requires attendance at three 80-minute rehearsals weekly. Entrance by audition at the beginning of the Fall semester each year. This course is graded universal P/F in which no numerical grade is assigned.									
		1720	001	.5	Nathan Zullinger	M Th	4:40PM	6:20PM	ROB100	18
MUSC	**H215F**	**Chamber Music**								
		Intensive rehearsal of works for small instrumental groups, with supplemental assigned research and listening. Performance is required. Students enrolled in Chamber Music have the opportunity to receive coaching from visiting artists on the Concert Artist Series and from resident ensembles. Performances take place at Haverford and Bryn Mawr Colleges, and other community venues. This course is available to those students who are concurrently studying privately, or who have studied privately immediately prior to the start of the semester. In addition, all students playing orchestral instruments must participate concurrently in the Orchestra, unless granted permission by the music director. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned. *Attributes: Humanities*									
		1717	001	.5	Heidi Carolyn Jacob					9
MUSC	**H216F**	**Orchestra**								
		The Haverford-Bryn Mawr Orchestra has over seventy members and performs a wide range of symphonic repertory. Orchestra members are expected to attend one two-and-a-half hour rehearsal per week, and are guided in sectional rehearsals by professional musicians. There are three/four performances a year, including Parents/Family Weekend concerts. The spring Orchestra concert features the winner of the annual student concerto competition. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned.									
		1718	001	.5	Heidi Carolyn Jacob	Th	7:00PM	9:30PM	ROB100	26
MUSC	**H219F**	**Art Song**								
		A performance course devoted to the French, German, English, and American art song literature from Schubert to the present. Weekly performance classes will be accompanied by weekly individual coaching with the instructor, culminating in a public recital at the end of the semester. Prerequisite(s): audition and consent of instructor								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Attributes: Humanities A: Creative Expression									
		2006	001	.5	Nathan Zullinger	F	11:30AM	1:30PM	ROB100	3
MUSC	**H222A**	**Bach and the Baroque**								
	This course traces sharp changes in 17th-century musical style and the equally striking changes in roles for soloists, composers, and audiences that prepared the way for Bach's extraordinary synthesis of musical technique in the first half of the 18th century. Attention to contexts of patronage, publishing, church, and theater, and to composers including Monteverdi, Vivaldi, and Handel.									
	Prerequisite(s): Any full-credit course in Music, or instructor consent									
	Attributes: A: Meaning, Interpretation (Texts) Humanities									
		1884	001	1.0	Richard Freedman	M W	8:30AM	10:00AM	ROB200	3
MUSC	**H229A**	**Thinking about Music: Ideas, History, and Musicology**								
	Core concepts and perspectives for the serious study of music. Students explore music, meaning, and musicological method in a variety of contexts through a set of six foundational themes and questions: Music and the Idea of Genius, Who Owns Music?, Music and Technology, The Global Soundscape, Music and the State, and Tonality, Sense, and Reason. Each unit uses a small number of musical works, performances, or documents as a focal point. In each unit we also read current musicological work in an attempt to understand the methods, arguments, and perspectives through which scholars interpret music and its many meanings. This course is required of all music majors and minors in their sophomore or junior year.									
	Prerequisite(s): MUSC 110, 111, or 203									
	Attributes: A: Meaning, Interpretation (Texts) Humanities									
		1725	001	1.0	Richard Freedman	M W	11:30AM	1:00PM	ROB200	9
MUSC	**H265A**	**Music for Orchestra: Classical to Contemporary**								
	This course traces the evolution of the orchestra and samples some of its most compelling literature, from the symphonic canvases of Beethoven, Berlioz, and Still to contemporary pieces incorporating non-Western instruments, electronics and even cell phones. Along the way we will learn to read the orchestral score, and study the capabilities of various orchestral instruments and how they are used together. Short weekly exercises in scoring during the first half of the class, visits from guest musicians, and attendance at concerts of the Philadelphia Orchestra and/or Chamber Orchestra of Philadelphia will both supplement and enhance our class discussions.									
	Prerequisite(s): MUSC 203 or permission of instructor									
	Attributes: Humanities									
		1886	001	1.0	Ingrid Arauco	T Th	10:00AM	11:30AM	ROB200	3
MUSC	**H303A**	**Advanced Tonal Harmony**								
	Study of late 19th-century harmonic practice in selected works of Liszt, Wagner, Brahms, Fauré, Wolf, Debussy, and Mahler. Exploration of chromatic harmony through analysis and short compositions; final composition project consisting of either art song or piano piece such as nocturne or intermezzo. Musicianship lab covers related aural and keyboard harmony skills.									
	Prerequisite(s): MUSC 204									
	Attributes: A: Creative Expression Humanities									
		1726	001	1.0	Ingrid Arauco	T Th	8:30AM	10:00AM	ROB200	7
MUSC	**H480A**	**Independent Study**								
	Prerequisite(s): Approval of department and consent of instructor									
	Attributes: Humanities									
		1727	001	1.0	Heidi Carolyn Jacob					0
		1728	002	1.0	Richard Freedman					0
		1729	003	1.0	Ingrid Arauco					1
		1730	004	1.0	Nathan Zullinger					0
		1887	005	1.0	Leonardo Dugan					0
NEUR	**H100A**	**Introduction to Neuroscience**								
	Neuroscience is an interdisciplinary field that seeks to understand the structure and functions of nervous system. Topics include evolution and development of the nervous system,neuroimaging and anatomy, neurophysiological basis of learning and memory, cognitive-behavioral development, and sensation and perception.									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Prerequisite(s): This course is not open to students who have previously taken HC Psych 217, HC Psych 260, or BMC Psych 218 Enrollment Limit: 35 *Attributes: Natural Science C: Physical and Natural Processes*									
		2099	001	1.0	Patrese Robinson-Drummer	T Th	2:30PM	4:00PM	HLS108	34
PEAC	**H101A**	**Intro to Peace, Justice and Human Rights**								
	Introduction to the study of peace, justice and human rights, surveying philosophies of rights and justice; approaches to (and reasons for) peace, war, and nonviolence; clashes between human rights and conflict resolution; why study of human rights is necessarily interdisciplinary. Enrollment Limit: 35 Lottery Preferences: 10 seats for incoming first-year students; PJHR concentrators and sophomores. *Attributes: Peace, Justice and Human Rights Social Science A: Meaning, Interpretation (Texts) B: Analysis of the Social World*									
		2262	001	1.0	Sarah-Jane Koulen	T Th	11:30AM	1:00PM	STO10	36
PEAC	**H116A**	**Ethical Struggles in Catastrophic Times: Quakers' Responses to the Holocaust**								
	An examination of some of the remarkable--and highly controversial--activities in which Quakers engaged as they tried to provide assistance to Jews who were being persecuted by the Nazis. Crosslisted: Independent College Programs; Religion; Peace, Justice and Human Rights Enrollment Limit: 15 *Attributes: A: Meaning, Interpretation (Texts) Humanities Peace, Justice and Human Rights B: Analysis of the Social World*									
		2008	001	1.0	David Harrington Watt	T Th	1:00PM	2:30PM	FDR220	8
PEAC	**H201A**	**Applied Ethics of Peace, Justice and Human Rights**								
	This course surveys major legal and ethical theories with a view to helping students understand arguments about peace, justice and human rights and formulate their own creative approaches to ethical problems. Theories will be applied to concrete problems of justice. No prerequisites. Enrollment Limit: 35 Lottery Preference: PJHR concentrators, then first-year students and sophomores *Attributes: B: Analysis of the Social World Health Studies A: Meaning, Interpretation (Texts) Peace, Justice and Human Rights Humanities*									
		2264	001	1.0	Shannan Hayes	T Th	1:00PM	2:30PM	CHS104	32
PEAC	**H202A**	**Forgiveness, Mourning, and Mercy in Law and Politics**								
	This course examines the possibilities and limits of forgiveness, apology and mercy in politics, and the role mourning plays in recovery from violence. In our readings we will focus on specific historic and contemporary instances of forgiveness and apology, violence and recovery; but our overall approach to the topic will be philosophical: The course will propose a thought experiment wherein we subject our ideas and presuppositions about what justice is, what it can and cannot be, and what forgiveness is, and what it can and cannot do, to a critical reappraisal. Crosslisted: PJHR, Philosophy Prerequisite(s): PEAC 101 or 201, a Philosophy course, or instructor consent Enrollment Limit: 25 *Attributes: Humanities Peace, Justice and Human Rights*									
		2357	001	1.0	Jill Stauffer	M W	1:00PM	2:30PM	GST101	9
PEAC	**H228A**	**Break Every Yoke: Incarceration, Abolition, and Social Justice**								
	Students in this course will be invited to explore the intersection of religion with issues of mass incarceration, prison abolition, and social justice in the United States. Students will read important works of abolitionist thought, will explore the religious origins of the modern penitentiary, and will produce original research that draws on the history of religious approaches to incarceration, abolition, and social justice to comment on contemporary debates over these same issues. Crosslisted: PEAC. Lottery Preference: Religion Majors, PJHR Concentrators									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Enrollment Limit: 20									
	Attributes: B: Analysis of the Social World A: Meaning, Interpretation (Texts) Peace, Justice and Human Rights Humanities									
		2435	001	1.0	Richard Kent Evans	M W	11:30AM	1:00PM	UN114	18
PEAC	**H298A Impact Investing**									
	Impact investing is investing to generate both a financial return and a positive social benefit. It supports firms seeking to address social, environmental and /or governance problems (ESG) in a sustainable way often within market activity. The focus of this course is to not only gain an understanding of the theory and practice of impact investing across its many components, but also to gain practical experience by assessing a particular set of potential impact investments, making formal presentations of findings to an investment committee leading to a recommendation for investment to a partnering foundation.									
	Crosslisted: Economics, Independent College Programs, PJHR									
	Prerequisite(s): ECON 104 or 105 or 106									
	Enrollment Limit: 16									
	Attributes: Social Science B: Analysis of the Social World Social Science B: Analysis of the Social World Peace, Justice and Human Rights Peace, Justice and Human Rights									
		1996	001	1.0	Shannon B. Mudd	F	12:00PM	1:00PM	VCAM102	1
		1996	001	1.0	Shannon B. Mudd	M W	11:30AM	1:00PM	VCAM102	1
PEAC	**H311A Legal Ways of Seeing: Rac(e)ism and the Law**									
	This is an interdisciplinary 300-level course for students with an interest in law, legal reasoning, race and racism and the role of visual culture or ‘ways of seeing’, regarding and categorizing in relation to law. The class explores, through a series of weekly ‘files’ loosely compiled around a theme or underlying concern, the racialized distribution of rights, citizenship and personhood in contemporary societies (with a focus on the United States) through law and legal discourse.									
	Pre-requisite(s): PEAC101, or PEAC201, or PEAC269, or ANTH214, or ANTH239 or consent of the instructor.									
	Enrollment Limit: 15									
	Lottery Preference: PJHR concentrators									
	Attributes: B: Analysis of the Social World Social Science Peace, Justice and Human Rights									
		2358	001	1.0	Sarah-Jane Koulen	F	11:00AM	1:30PM	UN114	9
PEAC	**H395A Capstone in Peace, Justice and Human Rights**									
	This capstone course consolidates student experience of a program that integrates scholarship, theory, library and field research, and policy perspectives. It incorporates research assignments, collaboration, a conference presentation and a dossier on student work in the concentration. For PJHR senior concentrators.									
	Enrollment Limit: 12									
	Lottery Preference: PJHR concentrators only									
	Attributes: Peace, Justice and Human Rights B: Analysis of the Social World Humanities A: Meaning, Interpretation (Texts)									
		2359	001	1.0	Jill Stauffer	T	1:30PM	4:00PM	STO104	7
PHIL	**H107A Happiness, Virtue, and the Good Life**									
	Happiness is something that we all want, but what exactly is it? Perhaps happiness is or involves leading a flourishing life. What, then, is a flourishing life? Does such a life involve the possession and exercise of certain states of character? Which ones? This course will consider these and related issues, including the virtues and their interrelations, the nature and identity of persons, and the meaning (or meaninglessness) of life. Readings from classic and contemporary sources, including Plato, Aristotle, Locke, Hume, Nagel, and Wolf.									
	Enrollment Limit: 45									
	Attributes: A: Meaning, Interpretation (Texts) Humanities									
		2067	001	1.0	Joel Yurdin	T Th	10:00AM	11:30AM	GST101	33
PHIL	**H108A Human Nature and Philosophical Reason**									
	This course examines the role played by the self in the systems of four philosophers: Plato, Aristotle, René Descartes, and David Hume. This list by no means is meant to suggest that all four philosophers are working with the same conception of the self: part of our challenge will be to chart how this conception changes from author to author. For Plato and Aristotle, our									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		focus will be on their accounts of the soul. For Descartes and Hume, our focus will be on their conceptions of the self as a thinking subject. Enrollment Limit: 45 *Attributes: A: Meaning, Interpretation (Texts) Humanities Neuroscience*								
		2069	001	1.0	Benjamin Berger	M W	11:30AM	1:00PM	GST101	21
PHIL	**H110A**	**Mind and World** An introduction to the history of our conception of ourselves as rational beings in the world through a close reading of central texts in the European tradition that address both the sorts of beings we are and the nature of the world as it is the object of our natural scientific knowledge. Enrollment Limit: 45 *Attributes: Neuroscience Humanities A: Meaning, Interpretation (Texts)*								
		2573	001	1.0	Danielle Macbeth	M W	2:30PM	4:00PM	GST101	3
PHIL	**H202A**	**Forgiveness, Mourning, and Mercy in Law and Politics** This course examines the possibilities and limits of forgiveness, apology and mercy in politics, and the role mourning plays in recovery from violence. In our readings we will focus on specific historic and contemporary instances of forgiveness and apology, violence and recovery; but our overall approach to the topic will be philosophical: The course will propose a thought experiment wherein we subject our ideas and presuppositions about what justice is, what it can and cannot be, and what forgiveness is, and what it can and cannot do, to a critical reappraisal. Crosslisted: PJHR, Philosophy Prerequisite(s): PEAC 101 or 201, a Philosophy course, or instructor consent Enrollment Limit: 25								
		2400	001	1.0	Jill Stauffer	M W	1:00PM	2:30PM	GST101	13
PHIL	**H219A**	**Disability and Philosophy** An introduction to disability studies, a space in which to engage some of the philosophical debates in the field, and an opportunity to reexamine familiar philosophical issues from the new perspective that disability studies opens up. Pre-requisite(s): One 100-level course in philosophy *Attributes: Health Studies A: Meaning, Interpretation (Texts) Humanities*								
		2394	001	1.0	Eric Fleming	M W	11:30AM	1:00PM	UNMAC	20
PHIL	**H257A**	**Critical Approaches to Ethical Theory** This course examines efforts over the last century to engage the ethical without recourse to formal systems or foundational principles. How, these approaches ask, can we talk about good and evil, morality and immorality, while believing “truth” to be historically, linguistically, and culturally contingent? In the process of drafting possible answers, we shall think deeply about social subjectivity and formations of sexual desire. *Attributes: Humanities*								
		2070	001	1.0	Jerry Miller	M W	1:00PM	2:30PM	HLL112	17
PHIL	**H260A**	**Historical Introduction to Logic** Our aim is two-fold: first, to understand - in the sense of having a working knowledge of - both traditional Aristotelean and modern quantificational logic (translating sentences into logical notation, assessing the validity of arguments, constructing proofs, and so on); and second, to understand logic, why it matters, what it can teach us (both as philosophers and as thinkers more generally), and how it "works" in the broadest sense. *Attributes: A: Meaning, Interpretation (Texts) Humanities Symbolic Reasoning*								
		2074	001	1.0	Danielle Macbeth	T Th	2:30PM	4:00PM	GST101	23
PHIL	**H261A**	**Experience, Know-How, and Skilled Coping** An investigation of three debates concerning the character of experiential knowledge. (1) Is experience the same as expertise? Is it required for the acquisition of expertise? (2) What is the difference between knowing-how and knowing that, and how are they related? (3) What is the phenomenology of skillful behavior? *Attributes: A: Meaning, Interpretation (Texts) Humanities*								
		2075	001	1.0	Joel Yurdin	T Th	1:00PM	2:30PM	GST101	8
PHIL	**H335A**	**Topics in Modern European Philosophy: Philosophy of Nature and the Human Animal**								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Prerequisite(s): One 200-level course in Philosophy or instructor approval. *Attributes: A: Meaning, Interpretation (Texts) Humanities*									
		2076	001	1.0	Benjamin Berger	M	7:30PM	10:00PM	GST101	13
PHIL	**H370A Topics In Ethical Theory: Inheritance** This course examines the concept of inheritance as a transfer of physical, social, linguistic, economic and behavioral capacities. Inheritance is unique, as Kant notes, as a transfer or gift that typically cannot be refused. Despite being involuntary recipients of our inherited capacities, we often imagine our having intentionally developed and earned them, whether advantageous or disadvantageous. By examining theories of how inheritances proceed across and through individuals and groups, especially via relations thought inheritably impotent (e.g., race and queerness), we will contemplate these movements as ethical genealogies, that is, as historical transfers of value (economic, social, dispositional) that configure recognition of our embodied selves. *Attributes: Humanities A: Meaning, Interpretation (Texts)*									
		2077	001	1.0	Jerry Miller	M W	2:30PM	4:00PM	HLL112	16
PHIL	**H399A Senior Seminar** This course has several components: (a) participation in the Altherr Symposium, including three to four meetings devoted to preparation for the symposium, (b) participation in the Distinguished Visitors series, (c) the writing of a senior thesis, and (d) presentation of one's work for critical discussion with others in the seminar, as well as a final formal presentation. *Attributes: Humanities*									
		2078	001	1.0	Danielle Macbeth	F	1:30PM	4:00PM	GST101	14
PHIL	**H407F Discussion Leaders** *Attributes: Humanities*									
		2079	001	.5	TBA Department staff	T Th	10:00AM	11:30AM		1
PHIL	**H408F Discussion Leaders** TA session for PHIL H108A *Attributes: Humanities*									
		2332	001	.5	Benjamin Berger	M W	11:30AM	1:00PM		1
PHIL	**H410F Discussion Leaders: Mind and World** *Attributes: Humanities*									
		2582	001	.5	Danielle Macbeth	M W	2:30PM	4:00PM		1
PHYS	**H101A Classical and Modern Physics I** Three class hours and one laboratory period. The first of a two-semester comprehensive introduction to physics, with an emphasis on life science applications involving Newtonian mechanics, oscillations, mechanics of materials, fluids, and thermal physics. Prerequisite(s): Calculus at the level of MATH H105 or equivalent should be taken prior to or concurrently with this course Enrollment Limit: 72 *Attributes: Natural Science C: Physical and Natural Processes Quantitative*									
		1905	001	1.0	Andrea N. Lommen	M W F	11:30AM	12:30PM	STO131	48
		1911	00A	.0	Daniel Grin	T	1:15PM	4:00PM	HLS105	17
		1912	00B	.0	Daniel Grin	W	1:15PM	4:00PM	HLS105	15
		1913	00C	.0	Daniel Grin	F	1:15PM	4:00PM	HLS105	18
PHYS	**H105A Fundamental Physics I** Three class hours and one laboratory period. Newtonian mechanics and thermodynamics. Applications are drawn primarily from the physical sciences. This sequence (105/106) is meant as a one-year introduction suitable for students interested in the physical sciences. Prerequisite(s): MATH H118 or equivalent Enrollment Limit: 72 *Attributes: Quantitative Natural Science C: Physical and Natural Processes*									
		1906	001	1.0	Suzanne Amador Kane	M W F	11:30AM	12:30PM	SHAAUD	13

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1914	00A	.0	Daniel Grin	T	1:15PM	4:00PM	HLS105	1
		1915	00B	.0	Daniel Grin	W	1:15PM	4:00PM	HLS105	2
		1916	00C	.0	Daniel Grin	F	1:15PM	4:00PM	HLS105	10
PHYS	**H106A**	**Fundamental Physics II**								
	Electricity and magnetism, optics, electronics and special relativity. Applications are drawn primarily from the physical sciences. This sequence (105/106) is meant as a one -year introduction suitable for students interested in the physical sciences. Three class hours and one laboratory period.									
	Prerequisite(s): MATH H118 and PHYS H105 or equivalent									
	Enrollment Limit: 72									
	Attributes: Quantitative C: Physical and Natural Processes Natural Science									
		1936	001	1.0	Andrea N. Lommen	T Th	10:00AM	11:30AM	ESTW309	3
		2673	00A	.0	Daniel Grin	T	1:15PM	4:00PM	HLS105	2
		2674	00B	.0	Daniel Grin	W	1:15PM	4:00PM	HLS105	0
		2675	00C	.0	Daniel Grin	F	1:15PM	4:00PM	HLS105	0
PHYS	**H211F**	**Laboratory in Electronics, Waves and Optics**								
	The first half of this laboratory is an introduction to analog electronics and instrumentation. The second half includes experiments in waves and optics.									
	Prerequisite(s): PHYS H213 must either be taken concurrently or as a prerequisite									
	Enrollment Limit: 16									
	Lottery Preference(s):									
	1. Physics, astrophysics or astronomy majors									
	2. Sophomores									
	3. Physics & astronomy minors									
	4. First-years									
	Attributes: Natural Science C: Physical and Natural Processes Biophysics									
		2010	001	.5	Walter F. Smith	W	1:15PM	4:00PM	HLS206	15
		2011	002	.5	Walter F. Smith	Th	1:15PM	4:00PM	HLS206	13
PHYS	**H213A**	**Waves and Optics**								
	Vibrations and waves in mechanical, electronic, and optical systems with an introduction to related mathematical methods such as functions of a complex variable and Fourier analysis. Topics include free and driven oscillations, resonance, superposition, coupled oscillators and normal modes, traveling waves, Maxwell’s equations and electromagnetic waves, interference, and diffraction. PHYS H211, a related laboratory half-course, is normally taken concurrently and is required for majors.									
	Prerequisite(s): PHYS H106 and MATH H118 or equivalent									
	Enrollment Limit: 30									
	Lottery Preference(s):									
	1. Physics, astrophysics or astronomy majors									
	2. Sophomores									
	3. Physics & astronomy minors									
	4. First-years									
	Attributes: Quantitative Biophysics Natural Science C: Physical and Natural Processes									
		1909	001	1.0	Daniel Grin	M W F	11:30AM	12:30PM	STO10	28
PHYS	**H303A**	**Statistical Physics**								
	Treatment of many body systems using classical and quantum statistics and ensembles to derive the laws of thermodynamics and statistical mechanics. This course includes applications to the thermal properties of matter (solids, liquids and gases), photon, and phonon systems.									
	Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306									
	Enrollment Limit: 30									
	Attributes: Biophysics Natural Science C: Physical and Natural Processes									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1932	001	1.0	Theodore A. Brzinski	M W F	9:30AM	10:30AM	STO16	29
PHYS	**H326A**	**Advanced Physics Laboratory**								
	Design, execution, and analysis of significant experiments, including experiments on fundamental techniques such as low-noise electronic measurements, optics, and computer interfacing, as well as more advanced experiments which change from year to year. These include studies of microfluidics, atomic spectroscopy, cosmic ray physics, superconductivity, sensor technologies, and chaotic dynamics. Prerequisite(s): PHYS H301, PHYS 214 and either PHYS H213 or PHYS B306 Enrollment Limit: 14 Lottery Preference(s): 1. Physics, astrophysics & astronomy majors 2. Physics & astronomy minors *Attributes: C: Physical and Natural Processes Natural Science*									
		1922	001	1.0	Walter F. Smith	M F	1:15PM	4:00PM	HLS106	4
PHYS	**H351D**	**Topics in Astrophysics: Gravitational Waves**								
	This course explores the new field of Gravitational Wave Astrophysics from the low frequencies (in the polarization of the cosmic microwave background) to the high frequencies that LIGO has discovered. In between, there is pulsar timing as a gravitational wave detector, and the planned space-based detector LISA. We will discuss how these different detectors will work together to explore the relatively unexplored gravitational wave universe. You will learn some of the basics of general relativity. Crosslisted: PHYS. Pre-requisite(s): PHY213 and PHY214 or permission of the instructor. *Attributes: Natural Science C: Physical and Natural Processes*									
		2017	001	.5	Andrea N. Lommen	T Th	1:00PM	2:30PM	OBS	3
PHYS	**H352E**	**Topics in Astrophysics: Extragalactic Data Science**								
	A 0.5 credit upper level astronomy/astrophysics elective, which can be taken in series with the other 0.5 credit upper level Astro elective offered the same semester, or as a stand-alone course. This class will cover the basics of modern extragalactic science (a review of our knowledge of the Milky Way and external galaxies) alongside hands on projects involving data science/statistical techniques used to investigate them. Assessment will be highly project based, with regular coding assignments (in python) done during class time, and guided reading of both current, and classic astrophysical literature. Students will leave with an understanding of extragalactic astrophysics as a modern data focused science. Crosslisted: PHYS. Pre-requisite(s): ASTR204 *Attributes: Natural Science C: Physical and Natural Processes*									
		2393	001	.5	Karen L. Masters	T Th	1:00PM	2:30PM	OBS	1
PHYS	**H399F**	**Senior Seminar**								
	A capstone experience for seniors in physics and astrophysics meeting biweekly throughout the year. An introduction to scientific writing and speaking; scientific ethics; graduate study in physics and astronomy; career options for physics and astronomy majors, both within the field and outside science; preparation and presentation of senior papers and colloquia; attendance at lectures by distinguished visitors; and discussions of student and faculty research projects in the department. This course is graded universal P/F in which no numerical grade is assigned. Prerequisite(s): Senior standing in physics or astrophysics Enrollment Limit: 30									
		1910	001	.5	Suzanne Amador Kane	T	7:30PM	9:00PM	ESTW309	18
PHYS	**H404A**	**Research in Astrophysics**								
	Intended for those students who choose to complete an independent research project in astrophysics under the supervision of a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 *Attributes: Natural Science*									
		1899	001	1.0	Andrea N. Lommen					1

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1900	002	1.0	Karen L. Masters					0
PHYS	**H404F**	**Research in Astrophysics**								
	Intended for those students who choose to complete an independent research project in astrophysics under the supervision of a faculty member.									
	Prerequisite(s): Instructor consent									
	Attributes: Natural Science									
		1903	001	.5	Andrea N. Lommen					0
		1904	002	.5	Karen L. Masters					0
PHYS	**H411A**	**Research in Soft Matter Physics**								
	Experimental research studying the rigidity and failure of jammed, disordered solids, and the mechanical response of athermal and nonlinear materials.									
	Prerequisite(s): Instructor consent									
	Attributes: Natural Science									
		1920	001	1.0	Theodore A. Brzinski					0
PHYS	**H411F**	**Research in Soft Matter Physics**								
	Experimental research studying the rigidity and failure of jammed, disordered solids, and the mechanical response of athermal and nonlinear materials.									
	Prerequisite(s): Instructor consent									
	Attributes: Natural Science									
		1928	001	.5	Theodore A. Brzinski					0
PHYS	**H412A**	**Research in Theoretical and Computational Physics**								
	Independent research on current problems in theoretical physics, with emphasis on particle physics, physical cosmology, and mathematical physics; extensive use is also made of computer-based methods. This course is graded universal P/F in which no numerical grade is assigned.									
	Prerequisite(s): Instructor consent									
	Enrollment Limit: 3									
		1923	001	1.0	Daniel Grin					2
PHYS	**H412F**	**Research in Theoretical and Computational Physics**								
	Independent research on current problems in theoretical physics, with emphasis on particle physics, physical cosmology, and mathematical physics; extensive use is also made of computer-based methods. This course is graded universal P/F in which no numerical grade is assigned.									
	Prerequisite(s): Instructor consent									
		1929	001	.5	Daniel Grin					1
PHYS	**H413A**	**Research in Biological Physics**								
	Experimental & computational research applying physics to problems in biomechanics, animal behavior & sensory ecology. This course is graded universal P/F in which no numerical grade is assigned.									
	Prerequisite(s): Instructor consent									
	Enrollment Limit: 6									
		1924	001	1.0	Suzanne Amador Kane					1
PHYS	**H413F**	**Research in Biological Physics**								
	Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned.									
	Prerequisite(s): Instructor Consent									
	Enrollment Limit: 6									
		1935	001	.5	Suzanne Amador Kane					0
PHYS	**H415A**	**Research in Nanoscale Physics**								
	Research on the morphology and electronic properties of nano-scale materials.									
	Prerequisite(s): Instructor consent. Advanced lab experience preferred									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Enrollment Limit: 5 *Attributes: Natural Science*									
		1925	001	1.0	Walter F. Smith					1
PHYS	**H415F**	**Research in Nanoscale Physics**								
	Research on the morphology and electronic properties of nano-scale materials. Prerequisite(s): Instructor consent. Advanced lab experience preferred Enrollment Limit: 5 *Attributes: Natural Science*									
		1926	001	.5	Walter F. Smith					0
PHYS	**H460A**	**Association in Teaching Basic Physics**								
	Study of the principles and practices of lecture instruction in physics through association with staff in Physics 101. The student will attend and critique course lectures; prepare, practice, and deliver a lecture; develop a lecture demonstration to be used in his or her lecture; participate in the preparation of examination problems and their evaluation; address student questions in the physics clinic; and write an evaluative final paper. Prerequisite(s): Senior standing in Physics, Astrophysics or Astronomy and instructor consent.									
		1927	001	1.0						0
PHYS	**H480A**	**Independent Study**								
	Intended for students who want to pursue some topic of study that is not currently offered in the curriculum. In order to enroll, a student must have a faculty sponsor. Prerequisite(s): Instructor consent Enrollment limit: 6									
		1934	001	1.0						1
POLS	**H121A**	**American Politics**								
	This course examines the dynamics of the political process as seen in the Congress, the Presidency, and the judiciary. It also focuses on the roles that interest groups, public opinion, the media, and political parties and elections play in the American political system. Enrollment Limit: 35 *Attributes: B: Analysis of the Social World Social Science*									
		1582	001	1.0	Zachary W. Oberfield	M W	10:00AM	11:30AM	HLL7	15
POLS	**H131A**	**Introduction to Comparative Politics**								
	An introduction to basic concepts and themes in comparative politics analyzed through case studies. Themes include political authority and governance structures; political culture and identity politics; political participation and representation; and political economy. Enrollment Limit: 35 Lottery Preference(s): Sophomores, then juniors and seniors. 15 spaces reserved for first year students *Attributes: Latin American, Iberian, and Latinx Studies B: Analysis of the Social World Social Science*									
		1576	001	1.0	Anita Julie Isaacs	T Th	10:00AM	11:30AM	CHS104	13
POLS	**H171A**	**Introduction to Political Theory**								
	An introduction to central concepts of political life through exploring the questions and problems surrounding democratic freedom, power, authority and citizenship. Reading from ancient, modern, and contemporary sources, literary as well as philosophical, American as well as European, will be included. Enrollment Limit: 40 *Attributes: Social Science B: Analysis of the Social World*									
		2268	001	1.0	Paulina Ochoa Espejo	T Th	10:00AM	11:30AM	HLS108	10
POLS	**H226A**	**Social Movement Theory**								
	Theoretical analysis of origins and development of mass-based protest movements in the U.S. Scholarly explanations of recruitment of individuals, modes of organization and leadership, strategies and tactics, countermovements, and the impact of movements on policy and politics. Enrollment Limit: 35 *Attributes: Social Science B: Analysis of the Social World*									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1707	001	1.0	Stephen J. McGovern	M W	10:00AM	11:30AM	GST101	23
POLS	**H253A**	**Introduction to Terrorism Studies**								
	After being marginalized in international relations scholarship for years, in the aftermath of 9/11 terrorism has moved to the forefront of scholarly interest. The purpose of this course is to survey the various theories concerning terrorism from diverse perspectives employing rationalist and psychological theories to explain terrorism-related phenomena. Enrollment Limit: 30 *Attributes: Social Science B: Analysis of the Social World*									
		1670	001	1.0	Barak Mendelsohn	T Th	11:30AM	1:00PM	HLL6	15
POLS	**H265A**	**Capitalism and the History of Political Economic Thought**								
	Theoretical approach to the role of politics and markets in modern societies. Draws from the history of political economic thought to evaluate the modern capitalist system and its critics. Key authors include the Mercantilists, Adam Smith, anarchist authors, Karl Marx, Karl Polanyi, F.A. Hayek, J.M. Keynes, and Milton Friedman. Prerequisite(s): One political science course or instructor consent Enrollment Limit: 25 *Attributes: Social Science B: Analysis of the Social World*									
		1706	001	1.0	Craig Borowiak	T Th	1:00PM	2:30PM	HLL201	17
POLS	**H277A**	**Introduction to Quantitative Research Methods in Political Science**								
	Introduces students to the quantitative analysis of politics. Students will learn how to formulate a research question, design a research project, find a relevant dataset, produce descriptive statistics and visualizations, and conduct basic statistical analysis. Prerequisite(s): One introductory course in political science Enrollment Limit: 15 Lottery Preference(s): Senior majors, junior majors, sophomores *Attributes: Quantitative Social Science B: Analysis of the Social World*									
		1577	001	1.0	Jack Commins Hart Hasler	T	7:30PM	10:00PM	STO102	14
POLS	**H278A**	**The Earth: Ethics, Politics, and Economics**								
	How should we deal with clashes among environmental values, economic growth, and what people want? Examines the clashing theories and interpretations of facts that underlie current environmental debates. Focus on climate change and inter-relations among ethical, political, and economic concerns. Enrollment Limit: 25 *Attributes: Social Science B: Analysis of the Social World*									
		1590	001	1.0	Thomas J. Donahue	F	11:00AM	1:30PM	GST101	24
POLS	**H283A**	**African Politics, African Novels and Film**								
	The study of politics in Africa through African literature. We explore themes including colonial legacies, gender, race and ethnicity, religion and political transition as they are discussed in African literature. Crosslisted: Political Science, Africana Studies Prerequisite(s): One previous course in political science or instructor consent Enrollment Limit: 25 Lottery Preference(s): Political science majors and students concentrating in African and Africana studies *Attributes: Social Science Africana Studies*									
		1632	001	1.0	Susanna Wing	T Th	10:00AM	11:30AM	UN111	3
POLS	**H301A**	**Development, Human Rights, and Transnational Injustices**								
	What are the worldwide obstacles to peace and justice? How can we surmount them? This course examines theories of some of the leading obstacles to peace and justice worldwide, and of what global citizens can do about them. The three obstacles we consider are colonialism and its legacies, whether we live in a global racial order, and whether the global economic order harms the poor and does them a kind of violence. The two solutions we will consider are the project of economic and social development, and the practice of human rights. The course aims, first, to give students some of the knowledge they will need to address these problems and be effective global citizens. Second, to understand some of the major forces that shape the present world order. Third and finally, to hone the skills in analysis, theory-building, and arguing that are highly valued									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					in legal and political advocacy, in public life and the professions, and in graduate school. Crosslisted: Independent College Programs, Political Science Enrollment Limit: 15 Lottery Preference(s): Returning CPGC Interns *Attributes: B: Analysis of the Social World Social Science Peace, Justice and Human Rights Social Justice*					
		1584	001	1.0	Thomas J. Donahue	M	1:30PM	4:00PM	STO104	12
POLS	**H313A**	**Armed Non-State Actors in International Politics**								
					The principal goal of the course is to expose students to various types of armed nonstate actors and gain insights into their motives and activities. The course also introduces analytical lens through which scholars have sought to conceptualize the interplay between states and armed nonstate actors. Prerequisite(s): One course in political science or instructor consent Enrollment Limit: 15 Lottery Preference(s): Political science seniors, then political science juniors *Attributes: Social Science B: Analysis of the Social World*					
		1708	001	1.0	Barak Mendelsohn	Th	1:30PM	4:00PM	HLL6	8
POLS	**H315A**	**Public Policy Analysis**								
					Using theories drawn from a variety of subfields, this course helps students develop a deeper understanding of how public policy is made. It also introduces students to policy analysis: the art and science of providing problem-solving advice to policymakers. Prerequisite(s): Junior or senior standing or instructor consent Enrollment Limit: 15 *Attributes: B: Analysis of the Social World Social Science*					
		1571	001	1.0	Zachary W. Oberfield	T	1:30PM	4:00PM	LUT211	15
POLS	**H318A**	**Contemporary Political Ideas amid Global Transformations**								
					This course examines how contemporary political ideas and movements, like nations, global solutions, or solidarity are affected by the global transformations that are now underway in the wake of COVID-19. We will explore how these transformations are reshaping these ideas, in light of the particular interests of students in the course. Enrollment Limit: 15 *Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Social Science*					
		1573	001	1.0	Paulina Ochoa Espejo	T	1:30PM	4:00PM	VCAM102	4
POLS	**H320A**	**Democracy in America**								
					This seminar explores some of the most pressing challenges to American democracy today, including the intensification of ideological and partisan polarization, increasing economic inequality, ongoing constraints faced by marginalized groups, and concerns about the diminishing quality of citizen participation in politics. Enrollment Limit: 15 *Attributes: B: Analysis of the Social World Social Science*					
		1572	001	1.0	Stephen J. McGovern	M	1:30PM	4:00PM	LUT230	8
POLS	**H330A**	**Topics in Comparative Politics**								
					This is a workshop course built around student interests and senior thesis topics. We will explore issues including, but not limited to, ethnicity, religion, gender and the state. We will look at how states pursue both political and economic development and how they cope with violent conflict. Prerequisite(s): Three courses in POLS AND junior or senior status, or instructor consent Enrollment Limit: 15 Lottery Preference(s): Senior POLS majors, then junior POLS majors, then seniors, then juniors *Attributes: B: Analysis of the Social World Social Science Latin American, Iberian, and Latinx Studies*					
		1569	001	1.0	Susanna Wing	W	1:30PM	4:00PM	STO104	7
POLS	**H331A**	**Research and Writing in Comparative Politics**								
					This seminar on research and writing in comparative politics seeks to foster advanced reading, analysis, writing and workshopping skills among advanced political science majors Prerequisite(s): 5 courses in political science at the introductory and intermediate levels					

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Enrollment Limit: 15 Lottery Preference(s): Political Science Seniors, then Political Science Juniors *Attributes: Social Science B: Analysis of the Social World*									
		1581	001	1.0	Anita Julie Isaacs	W	1:30PM	4:00PM	LUT211	7
POLS	**H366A Advanced Research in Global Governance** Research seminar designed for students interested in working on long research papers or preparing for senior theses related to the global governance subfield or similar fields. The course will cover research methodologies, writing strategies, and discussions of contemporary global governance scholarship, which will be used to anchor the course thematically and to model different approaches to research. Students' independent research will be complemented with regular and intensive collaborative workshopping of one another's work in class. Prerequisite(s): Three courses in POLS AND junior or senior status, or instructor consent Enrollment Limit: 15 Lottery Preference(s): Senior POLS majors, then junior POLS majors, then seniors, then juniors *Attributes: B: Analysis of the Social World Social Science*									
		1570	001	1.0	Craig Borowiak	W	1:30PM	4:00PM	GST102	4
POLS	**H460A Teaching Assistant** Teaching assistant. Prerequisite(s): Instructor consent *Attributes: Social Science*									
		1587	001	1.0	Zachary W. Oberfield					4
		2408	002	1.0	Anita Julie Isaacs					4
		2729	003	1.0	Paulina Ochoa Espejo					3
POLS	**H480A Independent Study** This course is conducted through individual consultation; supervised independent reading and research is expected; research papers and oral reports on special topics are based upon the individual interests of advanced students. Prerequisite(s): Instructor consent Enrollment Limit: 5									
		1578	001	1.0						1
PSYC	**H100A Foundations of Psychology** An introduction to the study of mind and behavior. Topics include biological, cognitive, personality, abnormal, and social psychology, as well as a general consideration of the empirical approach to the study of behavior. This course is a prerequisite for most other 200 and 300 level psychology courses. However, in most cases, this prerequisite may be met with an AP Psychology score of 4 or 5 or IB Psychology credit. Prerequisite(s): Not available to students with AP Psychology (score of 4 or 5) or IB Psychology credit, as noted on transcript Enrollment Limit: 35 Lottery Preference(s): 25 spaces reserved for incoming freshmen. Then priority as follows: freshmen, sophomores, juniors, seniors *Attributes: Social Science B: Analysis of the Social World*									
		1597	001	1.0	Marilyn Boltz	M W	8:30AM	10:00AM	SHA410	16
		1598	002	1.0	Shu-wen Wong	T Th	10:00AM	11:30AM	SHA410	21
		2590	003	1.0	Nathaniel Klooster	T Th	2:30PM	4:00PM	SHA410	13
PSYC	**H200A Research Methods and Statistics** A general overview of the research methods used in psychological science along with training in the statistical methods used in the field. Activities focus on designing research studies, collecting data, data analysis, and presenting results through written assignments. Prerequisite(s): PSYC 100 or PSYC B105 or Psychology AP Score of 4 or instructor consent Enrollment Limit: 20 Lottery preference(s): (1) Psychology majors, (2) sophomores, (3) seniors [non-psychology majors], (4) juniors [non-psychology majors], (5) first-year students									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Attributes: Quantitative Social Science B: Analysis of the Social World									
		1601	001	1.0	Benjamin Le	T Th	1:00PM	2:30PM	SHA410	20
PSYC	**H210A Developmental Psychology**									
	An examination of human development, surveying the physical, cognitive, social and emotional changes individuals undergo from conception onward. Theoretical and empirical approaches to the growing person will be explored through lectures, readings in the primary research literature, and class discussions. This course is mutually exclusive with PSYCB211 and PSYCB206, meaning students who are interested in this course can take this one, or one of the two alternatives at Bryn Mawr, but not both. Prerequisite(s): PSYC H100 or PSYC B105 or Psychology AP Score 4+ or consent. Enrollment Limit: 35 Lottery Preference(s): Majors and minors by class (seniors then juniors) *Attributes: B: Analysis of the Social World Social Science*									
		1611	001	1.0	Ryan Lei	T Th	11:30AM	1:00PM	HLS109	35
PSYC	**H215A Personality Psychology**									
	An examination of the fundamental issues and questions addressed by personality psychology, including: What is personality? What are its underlying processes and mechanisms? How does personality develop and change over time? What constitutes a healthy personality? This course will explore these questions by considering evidence from several major approaches to personality (trait, psychodynamic, humanistic, and social-cognitive), and it will encourage students to develop a dynamic understanding of human personality that is situated within biological, social, and cultural contexts. Prerequisite(s): PSYC 100 or PSYC B105 or Psychology AP Score 4 or instructor consent Enrollment Limit: 35 Lottery Preference(s): Psychology senior majors/minors, Psychology junior majors/minors, then non-majors by class (seniors first, etc.) *Attributes: Child and Family Studies Social Science B: Analysis of the Social World*									
		1630	001	1.0	Jennifer L Lilgendahl	M W	2:30PM	4:00PM	STO131	35
PSYC	**H217A Behavioral Neuroscience**									
	Interrelations between brain, behavior, and subjective experience. The course introduces students to physiological psychology through consideration of current knowledge about the mechanisms of mind and behavior. Crosslisted: Psychology, Biology Prerequisite(s): Any one of the following or instructor consent: PSYC 100, PSYC B105, BIOL H123, BIOL H124, BIOL H128, BIOL H129, Psychology AP Score 4 Enrollment Limit: 35 Lottery Preference(s): Priority to senior psychology or neuroscience majors, followed by junior psychology or neuroscience majors, followed by psychology or neuroscience minors *Attributes: Natural Science C: Physical and Natural Processes Neuroscience B: Analysis of the Social World*									
		1612	001	1.0	Laura E. Been	M W	10:00AM	11:30AM	UNMAC	20
PSYC	**H303A Psychology of Music**									
	What functions does music serve and how does it influence behavior? This course examines the evolutionary and biological bases of music as well as its effects upon cognition, social behavior, and our sense of self and identity. Prerequisite(s): PSYC 100, PSYC 200, and at least one additional 200-level course in psychology. Enrollment Limit: 12 Priority will be given to psychology majors at both Haverford and Bryn Mawr Colleges, followed by all psychology minors. *Attributes: Social Science B: Analysis of the Social World C: Physical and Natural Processes*									
		1631	001	1.0	Marilyn Boltz	T Th	10:00AM	11:30AM	LNKL205	11
PSYC	**H315F Laboratory in Personality Psychology**									
	An overview of methods used to conduct research on personality. Through lab activities and class projects, students will learn about important methodological topics within the study of personality, including measurement, reliability and validity, different modes of data collection (self-report questionnaires, interviews and narratives, observational and experimental approaches), and how to analyze and interpret personality data. Prerequisite(s): Past or concurrent enrollment in PSYC 215 is required. Prior completion of PSYC 200 or PSYC B205 is									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	recommended; however, concurrent enrollment in PSYC 200 or PSYC B205 may be permissible with instructor consent Enrollment Limit: 16 Lottery Preference(s): PSYC senior majors first, then junior majors next, then minors in that order; then by Class, i.e. seniors first, etc. *Attributes: B: Analysis of the Social World Social Science*	1633	001	.5	Jennifer L Lilgendahl	T	10:00AM	11:30AM	STO4	10
PSYC	**H328A**	**Neurobiology of Sexual Behavior**								
	An examination of the neurobiology underlying sexual behavior. This seminar will focus on systems-level understanding of the neural regulation of both pre-copulatory and copulatory behavior, drawing from primary literature in invertebrate, rodent, and human model systems. Prerequisite(s): PSYC 100 and PSYC 217, or instructor consent Enrollment Limit: 12 Lottery Preference(s): priority to senior psychology or neuroscience majors, followed by junior psychology or neuroscience majors, followed by psychology or neuroscience minors. *Attributes: Neuroscience C: Physical and Natural Processes Natural Science Gender and Sexuality Studies*	1613	001	1.0	Laura E. Been	M W	1:00PM	2:30PM	UN114	16
PSYC	**H329A**	**Neuroscience and Society**								
	Examines the intersection between neuroscience research and broad domains of society, including education, law, politics, and the marketplace. The course will emphasize critically evaluating appropriate versus inappropriate application of neuroscientific findings to these various societal domains. Prerequisite(s): 200-level coursework in neuroscience, e.g. Psych 217 or Psych 260 Enrollment Limit: 12 Lottery Preference(s): Priority to senior psychology or neuroscience majors, followed by junior psychology or neuroscience majors, followed by psychology or neuroscience minors *Attributes: C: Physical and Natural Processes B: Analysis of the Social World Neuroscience Social Science*	1628	001	1.0	Rebecca Compton	T	1:30PM	4:00PM	SHA416	12
PSYC	**H339A**	**Asian American Psychology**								
	This seminar course addresses major theories and findings in Asian American Psychology, with a focus on immigration and acculturation, ethnic identity, stereotyping and discrimination, families and development, and mental health. Prerequisite(s): One 200 level PSYC course or permission from instructor Enrollment Limit: 15 Lottery Preference(s): PSYC majors, minors, then class year (seniors, juniors, etc.) *Attributes: B: Analysis of the Social World Social Science*	1669	001	1.0	Shu-wen Wong	Th	1:30PM	4:00PM	STO14	13
PSYC	**H360F**	**Laboratory in Cognitive Neuroscience**								
	An examination of methodologies used to study the neural basis of higher mental functions. Students will utilize both cognitive and electrophysiological (EEG, ERP) recording methods, and will examine methodological issues in hemodynamic neuroimaging and the study of patient populations. A half-credit course. Prerequisite(s): Stats/Methods (PSYC H200 or B205), or instructor consent. The PSYC H260 lecture is not required for this lab Enrollment Limit: 16 Lottery Preference(s): priority to senior psychology or neuroscience majors, followed by junior psychology or neuroscience majors, followed by psychology or neuroscience minors. *Attributes: Neuroscience C: Physical and Natural Processes Natural Science*	1671	001	.5	Rebecca Compton	M	11:30AM	1:00PM	STO4	16
PSYC	**H390A**	**Senior Thesis**								
	Open to senior psychology majors doing a one semester thesis in current semester. Enrollment Limit: 10 *Attributes: Social Science*	1599	001	1.0	TBA Department staff	F	1:30PM	4:00PM	SHA410	34

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
PSYC	**H391A**	**Senior Research Tutorial in Cognition**								
	This senior research tutorial involves small group collaborative research on topics in memory and cognition, and especially those involving music cognition, the psychology of time, audiovisual interactions, and language behavior. Open to senior psychology majors.									
	Enrollment Limit: 10									
	Attributes: Social Science									
		1600	001	1.0	Marilyn Boltz				SHA410	0
PSYC	**H392A**	**Senior Research Tutorial in Personality**								
	This senior research tutorial examines personality processes and identity development in emerging and middle adulthood, with an emphasis on the role of narrative meaning-making for understanding life trajectories and outcomes. Open to senior psychology majors.									
	Enrollment Limit: 10									
	Attributes: Social Science									
		1624	001	1.0	Jennifer L Lilgendahl	F	1:30PM	4:00PM	SHA410	0
PSYC	**H393A**	**Senior Research Tutorial in Social Psychology**								
	This senior thesis tutorial explores social psychological processes and close relationships using both experimental and survey methodologies, with an emphasis on transparency and utilizing best-practices for open science. Open to senior psychology majors.									
	Enrollment Limit: 10									
	Attributes: Social Science									
		1705	001	1.0	Benjamin Le	F	1:30PM	4:00PM	SHA410	1
PSYC	**H394A**	**Senior Research Tutorial in Behavioral Neuroscience**								
	This senior thesis tutorial examines the bidirectional relationship between the brain and behavior, emphasizing how hormones influence this relationship. Using a rodent model and cutting-edge neuroscience methodologies, students will design and conduct independent empirical projects in behavioral neuroendocrinology. Open to senior psychology majors.									
	Enrollment Limit: 10									
	Attributes: Natural Science Neuroscience									
		1595	001	1.0	Laura E. Been	F	1:30PM	4:00PM	SHA410	1
		1610	002	1.0	Patrese Robinson-Drummer	F	1:30PM	4:00PM	SHA410	0
PSYC	**H395A**	**Senior Research Tutorial in Cognitive Neuroscience**								
	This senior thesis tutorial involves designing and implementing projects using EEG methods to study aspects of human cognition. Specific topics vary, but often involve executive functions, attention, or emotion regulation. Open to senior psychology majors.									
	Enrollment Limit: 10									
	Attributes: Neuroscience Social Science									
		1596	001	1.0	Rebecca Compton	F	1:30PM	4:00PM	SHA410	0
PSYC	**H397A**	**Senior Research Tutorial in Developmental Psychology**								
	Open to Senior Psychology Majors									
	Attributes: Social Science									
		1607	001	1.0	Ryan Lei	F	1:30PM	4:00PM	SHA410	0
PSYC	**H398A**	**Senior Research Tutorial in Cultural Psychology**								
	This senior thesis tutorial examines the influence of culture, ethnicity, and race on psychological processes. Topics on social behavior and support, emotion processes, and health and well-being are emphasized. Open to senior psychology majors.									
	Enrollment Limit: 10									
	Attributes: Social Science									
		1627	001	1.0	Shu-wen Wong	F	1:30PM	4:00PM	SHA410	1
RELG	**H110A**	**Sacred Texts and Religious Traditions**								
	An introduction to Religion through the close reading of selected sacred texts of various religious traditions in their historical, literary, philosophical, and religious contexts.									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		Enrollment Limit: 20 Lottery Preference(s): 10 spaces reserved for first-year students *Attributes: Middle Eastern & Islamic Studies A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities*								
		1983	001	1.0	Anne Marie McGuire	M W	10:00AM	11:30AM	STO104	20
RELG	**H116A**	**Ethical Struggles in Catastrophic Times: Quakers' Responses to the Holocaust**								
		An examination of some of the remarkable--and highly controversial--activities in which Quakers engaged as they tried to provide assistance to Jews who were being persecuted by the Nazis. Crosslisted: Independent College Programs; Religion; Peace, Justice and Human Rights Enrollment Limit: 15 *Attributes: A: Meaning, Interpretation (Texts) Humanities Peace, Justice and Human Rights B: Analysis of the Social World*								
		1979	001	1.0	David Harrington Watt	T Th	1:00PM	2:30PM	FDR220	2
RELG	**H128A**	**Reading Sacred Texts**								
		An introduction to reading sacred texts in an academic setting. In this course we will apply a variety of methodological approaches--literary, historical, sociological, anthropological or philosophical--to the reading of religious texts, documents and materials. Open only to first-year students as assigned by the Director of College Writing. Enrollment Limit 12 *Attributes: Humanities*								
		2362	001	1.0	Naomi Koltun-Fromm	T Th	11:30AM	1:00PM	GST102	0
RELG	**H150A**	**South Asian Religious Cultures**								
		An introductory course covering the variegated expressions of Hinduism, Buddhism, Jainism, Islam, and Sikhism in South Asia. Enrollment Limit: 25 *Attributes: Middle Eastern & Islamic Studies B: Analysis of the Social World Humanities*								
		1976	001	1.0	Pika Ghosh	T Th	1:00PM	2:30PM	ESTW309	8
RELG	**H159A**	**Gender and Sexuality in Islamic Texts and Practices**								
		This course introduces students to the different views of gender and sexuality in Islamic thought, and situates these views within Muslim histories and societies. We will draw on primary sources, historiographical work, ethnographies of Muslim societies, fiction, poetry, and play. One major focus will be on homosexuality in Islam and Muslim societies. In the course of this examination we will also have a chance to question what "homosexuality" is and whether this term can be applied cross-culturally and cross-religiously. To think critically about homosexuality in Islam will thus compel us to reconsider homosexuality and Islam at once. Open only to first-year students as assigned by the Director of College Writing. Enrollment Limit: 12 *Attributes: First Year Writing Middle Eastern & Islamic Studies Gender and Sexuality Studies*								
		2570	001	1.0	Guangtian Ha	T Th	2:30PM	4:00PM	GST103	0
RELG	**H201A**	**Introduction to Buddhism**								
		Focusing on the East Asian Buddhist tradition, the course examines Buddhist philosophy, doctrine and practice as textual traditions and as lived religion. Crosslisted: East Asian Languages & Cultures, Religion Enrollment Limit: 30 *Attributes: Visual Studies B: Analysis of the Social World A: Meaning, Interpretation (Texts) Humanities*								
		2128	001	1.0	Hank Glassman	T Th	1:00PM	2:30PM	STO18	7
RELG	**H222A**	**Gnosticism**								
		The phenomenon of Gnosticism examined through close reading of primary sources, including the recently discovered texts of Nag Hammadi. Topics include the relation of Gnosticism to Greek, Jewish, and Christian thought; the variety of Gnostic schools and sects; gender imagery, mythology and other issues in the interpretation of Gnostic texts. Enrollment Limit: 25 *Attributes: A: Meaning, Interpretation (Texts) Humanities*								
		2009	001	1.0	Anne Marie McGuire	T Th	10:00AM	11:30AM	HLL112	10

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld

RELG H228A Break Every Yoke: Incarceration, Abolition, and Social Justice

Students in this course will be invited to explore the intersection of religion with issues of mass incarceration, prison abolition, and social justice in the United States. Students will read important works of abolitionist thought, will explore the religious origins of the modern penitentiary, and will produce original research that draws on the history of religious approaches to incarceration, abolition, and social justice to comment on contemporary debates over these same issues.
Crosslisted: PEAC.
Lottery Preference: Religion Majors, PJHR Concentrators
Enrollment Limit: 20
Attributes: Humanities A: Meaning, Interpretation (Texts) Peace, Justice and Human Rights B: Analysis of the Social World

	2434	001	1.0	Richard Kent Evans	M W	11:30AM	1:00PM	UN114	1

RELG H240A History and Principles of Quakerism

The development of Quakerism and its relationship to other religious movements and to political and social life, especially in America. The roots of the Society of Friends in 17th-century Britain, and the expansion of Quaker influences among Third World populations, particularly the Native American, Hispanic, east African, and Asian populations.
Crosslisted: Religion, History
Enrollment Limit: 35
Attributes: Social Science B: Analysis of the Social World

	2012	001	1.0	Emma Lapsansky	T Th	11:30AM	1:00PM	GST101	9

RELG H274A The Problem of Evil: Ancient Answers to a Difficult Question

What is evil, and where does it come from? The difficulty of answering these questions is only matched by their importance to our lived human experience. Together we will study a wide range of texts from Archaic Greece through the early Middle Ages, and throughout the course, students will be encouraged to consider and reconsider their own understanding of these urgent issues. No previous experience in Classics or the ancient world is required.
Crosslisted: COML,RELG.
Pre-requisite(s): None
Lottery Preference: Ten slots reserved for first years, preference to Classics majors and minors
Enrollment Limit: 45
Attributes: Humanities A: Meaning, Interpretation (Texts)

	1455	001	1.0	Charles N. Kuper	M W	1:00PM	2:30PM	HLL107	8

RELG H299A Theoretical Perspectives in the Study of Religion

An introduction to theories of the nature and function of religion from theological, philosophical, psychological, anthropological, and sociological perspectives. Readings may include: Schleiermacher, Marx, Nietzche, Freud, Tylor, Durkheim, Weber, James, Otto, Benjamin, Eliade, Geertz, Foucault, Douglas, Smith, Berger, Haraway.
Enrollment Limit: 25
Lottery Preference(s): Senior majors/minors, then Junior majors/minors
Attributes: A: Meaning, Interpretation (Texts) Humanities

	1978	001	1.0	Molly Farneth	T Th	11:30AM	1:00PM	UNMAC	5

RELG H303A Religion, Literature and Representation: Images of Krishna

This course approaches the Hindu god Krishna through varied expressions in architecture, sculpture, paintings, textiles, landscape design, poetry, music, dance, and drama. We will ask how these practices were employed to visualize the divine, to nurture faith and passion, and to gain proximity to the transcendent deity. Class work will include field trips to local temples and museums.
Enrollment Limit: 15
Attributes: A: Meaning, Interpretation (Texts) Visual Studies Gender and Sexuality Studies Humanities

	2014	001	1.0	Pika Ghosh	F	1:30PM	4:00PM	VCAM102	3

RELG H319A Black Queer Saints: Sex, Gender, Race, Class and the Quest for Liberation

Drawing on fiction, biography, critical theory, film, essays, and memoirs, participants will explore how certain African American artists, activists, and religionists have resisted, represented, and reinterpreted sex, sexuality, and gender norms in the context of capitalist, white supremacist, male supremacist, and heteronormative cultures.

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Crosslisted: Africana Studies, Religion Prerequisite(s): 200-level Humanities course, or instructor consent Enrollment Limit: 15 *Attributes: Gender and Sexuality Studies B: Analysis of the Social World A: Meaning, Interpretation (Texts) Humanities Africana Studies*									
		1981	001	1.0	Terrance Wiley	M	7:30PM	10:00PM	UN114	1
RELG	**H398A Senior Thesis Seminar Part 1** A practical methodology course which prepares senior Religion majors to write their senior theses. Enrollment Limit: 25 Lottery Preference(s): Open to Senior Religion majors only *Attributes: Humanities*									
		1972	001	1.0	Naomi Koltun-Fromm	M	1:30PM	4:00PM	LUT211	4
RELG	**H460A Teaching Assistant** Teaching Assistant Enrollment Limit: 5 *Attributes: Humanities*									
		2457	001	1.0	David Harrington Watt					1
RELG	**H480A Independent Study** Independent Study Enrollment Limit: 5 *Attributes: Humanities*									
		1973	001	1.0	TBA Department staff					0
		1974	002	1.0						0
RUSS	**H001A Elementary Russian Intensive** Study of basic grammar and syntax. Fundamental skills in speaking, reading, writing, and oral comprehension are developed. Eight hours a week including conversation sections and language laboratory work. Two additional hours of Conversation (per week) will be set according to students' schedules. *Attributes: Humanities A: Meaning, Interpretation (Texts) A: Meaning, Interpretation (Texts) Humanities*									
		2377	001	1.5	Jane Robin Shaw	W	6:10PM	7:00PM	DAL300	1
		2377	001	1.5	Jane Robin Shaw	M T W Th F	2:30PM	3:30PM	STO16	1
RUSS	**H245A Russia in the 20th Century** Continuity and change in Russian and Soviet society since the 1890s. Major topics: the revolutionary period, the cultural ferment of the 1920s, Stalinism, the Thaw, the culture of dissent, and the collapse of the system. Open only to first-year students as assigned by the Director of College Writing. Enrollment Limit: 12 *Attributes: First Year Writing*									
		1812	001	1.0	Linda Gerstein	T Th	11:30AM	1:00PM	HLL201	1
RUSS	**H249A The Soviet System and Its Demise** The Soviet system was inspired by some of the loftiest ideals of humanity. The entire society was redesigned so as to pursue common goals, rather than conflicting private objectives. The economy was run for people, not profits. The Soviet system is no more, but the ideas on which it was founded will probably always be with us. What does the largest social and economic experiment in history teach us? The course is 1/3 political science and 2/3 economics. Crosslisted: Economics, Russian Prerequisite(s): ECON 104, 105, or 106, or two one-semester courses in political science or history, or instructor consent *Attributes: Social Science B: Analysis of the Social World*									
		1986	001	1.0	Vladimir Kontorovich	T Th	2:30PM	4:00PM	STO102	2
SOCL	**H155A Foundations in Social Theory** This seminar provides an introduction to sociology, to the doing of sociology, through an examination of selected major									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	works in the discipline. We use these works as exemplifications of how we might do social theory, not as texts to be criticized. The two semesters of this course are autonomous; either semester in the sequence may be taken alone, and either semester may be taken first. Together, the two mesh into a systematically-constructed whole, leading to a more coherent perspective on the accomplishments and future tasks of sociology than either provides alone. Section 001 with Gould will highlight works by Marx and Weber (supplemented by a bit of Parsons, Hegel, etc.). Section 002 with McKeever will highlight works by Marx, Weber, Polanyi, and Durkheim. *Attributes: Social Science B: Analysis of the Social World*									
		1744	001	1.0	Mark Gould	T Th	1:00PM	2:30PM	HLL107	13
		1745	002	1.0	Matthew McKeever	T Th	10:00AM	11:30AM	HLL107	8
SOCL	**H270A**	**Measuring Education**								
	This course explores contemporary political movements to measure learning outcomes in educational institutions. It covers such topics as NCLB legislation, standardized testing for college admissions, assessment of college education, and development of online learning tools. Crosslisted: Sociology, Educcation *Attributes: B: Analysis of the Social World Social Science*									
		1751	001	1.0	Matthew McKeever	T	1:30PM	4:00PM	HLL6	5
SOCL	**H298A**	**Law and Sociology**								
	An examination of the jurisprudential consequences derived from the sociological reconstruction of micro-economic and philosophical theories. *Attributes: Social Science B: Analysis of the Social World*									
		1757	001	1.0	Mark Gould	T Th	11:30AM	1:00PM	STO207	10
SOCL	**H450A**	**Senior Departmental Studies**								
	Thesis work, two semesters required of majors in their senior year. *Attributes: Social Science*									
		1748	002	1.0	Matthew McKeever					1
		1756	003	1.0	Shelly Ronen					1
SOCL	**H460A**	**Teaching Assistant**								
	Students may act as assistants in certain courses that they themselves have already completed. Responsibilities may include the opportunity to lead discussions, informal teaching assistance, a short list of advanced reading and a paper on an agreed topic. *Attributes: Social Science*									
		1746	001	1.0	Mark Gould					1
SOCL	**H480A**	**Independent Study**								
	Research papers and reading courses on special topics related to the individual interests of advanced students. Prerequisite(s): The instructor' s approval of a research or reading proposal									
		1753	001	1.0						0
SPAN	**H001A**	**Elementary Spanish**								
	This course is the first part of the introduction to the Spanish language. We study grammar and vocabulary in order to learn about the culture of the Spanish-speaking world and to communicate effectively. The focus is on engaging in conveying meaning. The course meets for five hours (5) a week: three hours (3) with the instructor, one (1) hour with a TA, and (1) mandatory study group hour. This is a two-semester course. Both semesters need to be taken consecutively to receive credit. Students who take the first semester at HC have priority of enrollment in the second semester. Reserved for students with no previous to very little experience in Spanish. Enrollment Limit: 18 *Attributes: Humanities A: Meaning, Interpretation (Texts)*									
		2238	001	1.0	Ariana Huberman	M W F	10:30AM	11:30AM	STO18	13
		2239	002	1.0	Ana López-Sánchez	M W F	11:30AM	12:30PM	HLL6	3
		2240	003	1.0	Ana López-Sánchez	M W F	12:30PM	1:30PM	HLL6	6
SPAN	**H100A**	**Basic Intermediate Spanish**								

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	This is a course for students who have achieved a basic knowledge of Spanish. Students will improve their conversational and writing skills while learning about contemporary issues of Spanish-speaking countries. The course meets for five hours a week: three (3) hours with the instructor, (1) hour with a TA, and (1) mandatory study group hour. Prerequisite(s): Placement score or instructor consent. Enrollment Limit: 18 *Attributes: Humanities A: Meaning, Interpretation (Texts)*									
		2241	001	1.0	Aurelia Gómez De Unamuno	M W	10:00AM	11:30AM	LUT230	2
		2242	002	1.0	Dana Khromov	T Th	11:30AM	1:00PM	HLL7	8
		2431	003	1.0	Dana Khromov	T Th	2:30PM	4:00PM	HLL7	1
SPAN	**H101A**	**Intermediate Spanish**								
	The main goals of this course are to strengthen and expand writing and conversational skills, with a focus on key social, cultural, and historical issues of the Spanish-speaking world. Vocabulary and grammar are taught within the context of the specific themes chosen to enhance students' familiarity with Hispanic societies and cultures. The course meets for five hours a week: three (3) hours with the instructor, (1) hour with a TA, and (1) mandatory study group hour. Prerequisite(s): SPAN 100, Placement score, or instructor consent. Enrollment Limit: 18 *Attributes: A: Meaning, Interpretation (Texts) Humanities*									
		2243	001	1.0	Lina Maria Martinez Hernandez	T Th	10:00AM	11:30AM	STO16	2
		2244	002	1.0	Lina Maria Martinez Hernandez	T Th	1:00PM	2:30PM	STO16	4
		2248	003	1.0	Luis Rodriguez-Rincon	M W	10:00AM	11:30AM	UN114	5
SPAN	**H102A**	**Advanced Intermediate Spanish**								
	This course aims to refine the student's ability to exercise critical analysis and to communicate effectively in Spanish (orally and in writing) by learning about a variety of cultural themes and literary genres and to prepare to take courses at the 200 level The course meets for five hours a week: three (3) hours with the instructor, (1) hour with a TA, and (1) mandatory study group hour. Prerequisite(s): SPAN 101, Placement score, or instructor consent. Enrollment Limit: 18 *Attributes: A: Meaning, Interpretation (Texts) Humanities*									
		2236	001	1.0	Roberto Castillo Sandoval	T Th	10:00AM	11:30AM	STO104	7
		2237	002	1.0	Roberto Castillo Sandoval	T Th	11:30AM	1:00PM	STO104	3
SPAN	**H201A**	**Exploring Critical Issues Through Writing**								
	The course aims to provide students with the skills necessary to successfully undertake writing assignments in the upper-division Spanish courses. Students will be engaged in discussions of, and write about topics such as identity, borders and migrations, and manifestations of violence. This course is conducted in Spanish. Prerequisite(s): SPAN 102, placement, or instructor consent Enrollment Limit: 15 Lottery Preference(s): 8 spaces reserve for first year students *Attributes: Latin American, Iberian, and Latinx Studies Humanities A: Meaning, Interpretation (Texts) B: Analysis of the Social World*									
		2245	001	1.0	Ariana Huberman	M W	1:00PM	2:30PM	STO207	8
SPAN	**H210A**	**Spanish and Spanish American Film Studies**								
	Exploration of Latin American film. The course will discuss approximately one movie per week. The class will focus on the analysis of cinematic discourses as well as the films' cultural and historic background. The course will also provide advanced language training with particular emphasis in refining oral and writing skills. This course is conducted in Spanish.									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Crosslisted: Spanish, Comparative Literature. Prerequisite(s): SPAN 102, or placement, or instructor consent. Enrollment Limit: 20 *Attributes: Visual Studies Humanities Latin American, Iberian, and Latinx Studies*									
		2432	001	1.0	TBA Department staff	T Th	10:00AM	11:30AM	VCAM102	7
SPAN	**H221A Narrating Modern Mexico** This course approaches the reconstruction of the nation after the Mexican Revolution and its relevance in foundational narratives. Through literary texts and visual production including the Mexican Muralism, photography and films, this course analyses the Mexican Revolution and the post-revolutionary process stressing the tensions, contradictions, and debts of the Mexican Revolution to rural sectors including campesino and indigenous groups. This course is conducted in Spanish. Enrollment Limit: 25 *Attributes: Latin American, Iberian, and Latinx Studies A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities*									
		2253	001	1.0	Aurelia Gómez De Unamuno	M W	11:30AM	1:00PM	LUT230	14
SPAN	**H250A Quixotic Narratives** This course proposes a bilingual reading of Miguel de Cervantes' famous novel, El ingenioso hidalgo don Quijote de la Mancha. Course readings and discussion will be in English with the option of reading the novel in Spanish and participating in a Spanish-language discussion group for interested students. The course will focus on analyzing the novel's self-reflexivity and narrative ambiguity as well as its depiction of gender, race, and class. We will also study the legacy of Cervantes' novel and its influence on subsequent fiction, philosophy, music, art and film. This course fulfills the "pre 1898" requirement. Crosslisted: Spanish, Comparative Literature. Enrollment Limit: 25 *Attributes: A: Meaning, Interpretation (Texts) Latin American, Iberian, and Latinx Studies Humanities*									
		2254	001	1.0	Luis Rodriguez-Rincon	T Th	1:00PM	2:30PM	HLL112	14
SPAN	**H253A Hispanic Caribbean Migration Tales** Students will learn about different Hispanic Caribbean migratory experiences through a selection of short stories, novels, memoirs, and essays, as well as in film, and performative production. The texts that will be analyzed are mostly originally written in Spanish. Crosslisted: Spanish, Comparative Literature Prerequisite(s): SPAN H102 or 200-300 level in the placement test Enrollment Limit: 25 *Attributes: A: Meaning, Interpretation (Texts) Humanities Latin American, Iberian, and Latinx Studies*									
		2256	001	1.0	Lina Maria Martinez Hernandez	M W	2:30PM	4:00PM	HLL6	4
SPAN	**H314A Spanish in the US: Language, identity and politics** The course introduces students to basic concepts of (critical) sociolinguistics with a focus on Spanish in the US. It examines the history and politics of Spanish in the US, the relationship of language to Latinx identities, and how language ideologies and policies reflect and shape societal views of Spanish and its speakers (and contribute to discrimination and social injustices). Course taught in Spanish. Prerequisite(s): Course at the 200-level in Spanish or Linguistics Enrollment Limit: 25 Lottery Preference(s): 1. Spanish and Linguistics Majors, LAILS concentrators 2. Seniors and Juniors *Attributes: B: Analysis of the Social World A: Meaning, Interpretation (Texts) Humanities Latin American, Iberian, and Latinx Studies*									
		2258	001	1.0	Ana López-Sánchez	T Th	2:30PM	4:00PM	STO18	11
SPAN	**H322A Politics of Memory in Latin America**									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	This course explores the issue of memory, the narration of political violence and the tension between truth and fiction. A selection of documents, visual archives and documentary films are compared with literary genres including testimonies memories, diaries, poetry, and fiction writing. This course also compares the coup and dictatorship of Pinochet with the repression of the student movement of '68 and the guerrilla warfare in Mexico. This course is conducted in Spanish. Cross-listed: Spanish, Comparative Literature, PJHR *Attributes: Latin American, Iberian, and Latinx Studies Gender and Sexuality Studies Peace, Justice and Human Rights Humanities*									
		2260	001	1.0	Aurelia Gómez De Unamuno	T Th	10:00AM	11:30AM	LUT211	3
SPAN	**H490A**	**Senior Departmental Studies**								
	The course will consist of two one-semester parts. The first, taken in the fall, will have the format of a seminar under the supervision of one Spanish department faculty member. The purpose of this seminar is to prepare students for the research and writing their senior theses by 1) enhancing and refining the reading tools and critical approaches to texts in Spanish acquired in previous courses; 2) elucidating and contextualizing relevant aspects of literary history, theory, and culture 3) determining the thesis topic, key secondary sources and approach to be deployed in writing the thesis, and 4) polishing the skills and methods for successful research and proper use of available resources. Problems in literary and cultural analysis-selected with a view to their pertinence in relation to the group's interests-will be presented through close readings of works from various periods and genres and through selected works of criticism or theory. The Spring semester will involve the process of writing the thesis. Students work under the supervision of individual professors. *Attributes: B: Analysis of the Social World A: Meaning, Interpretation (Texts) Humanities*									
		2246	001	1.0	Graciela Michelotti	M	1:30PM	4:00PM	HLL106	5
STAT	**H203A**	**Statistical Methods and their Applications**								
	An introduction to statistical methods used to analyze data in the natural and social sciences. It covers descriptive statistics, the binomial and normal distributions, expected value and variance, confidence intervals and hypothesis testing, comparison of two samples, regression, and analysis of variance. A required computer lab, using R, is taught alongside this course. Crosslisted: Mathematics, Statistics Prerequisite(s): MATH 118 or higher, placement into MATH 121 or higher, or instructor consent. Students who have taken another introductory statistics course at Haverford or Bryn Mawr may only enroll in STAT 203 with instructor consent Enrollment Limit: 20 *Attributes: C: Physical and Natural Processes Quantitative Health Studies Natural Science*									
		2339	001	1.0	Weiwen Miao	M W	10:00AM	11:30AM	SHA113	7
		2340	00A	.0	Weiwen Miao	F	10:00AM	11:30AM	HLS204	7
STAT	**H286A**	**Applied Multivariate Statistical Analysis**								
	An introduction to multivariate statistical analysis. The course includes methods for choosing, fitting, and evaluating multiple regression models and analysis of variance models. A required computer lab, using R, is taught alongside this course. Crosslisted: Mathematics, Statistics Prerequisite(s): MATH 215 and one of the following: ECON 204, MATH 203, PSYC 200, SOCL 215 Enrollment Limit: 15 Lottery Preference(s): Senior and Junior Statistics Minors *Attributes: Natural Science C: Physical and Natural Processes Quantitative*									
		2353	001	1.0	Weiwen Miao	M W	1:00PM	2:30PM	HLS204	5
		2355	00A	.0	Weiwen Miao	Th	1:00PM	2:30PM	HLS204	5
VIST	**H116A**	**Speculative Filmmaking**								
	Students will learn the craft of digital video production and post-production through the creation of short video projects focused on the genres of speculation, especially about the future of humans and human societies, as a creative framework. Students will learn the basics of HD cameras, digital sound recording and lighting techniques, as well as non-linear video editing, sound editing and exporting video using Adobe Premiere. Pre-requisite(s): Enrollment limit of 12 students.									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Lottery Preference: Visual Studies minors Enrollment Limit: 12 *Attributes: Humanities A: Creative Expression Visual Studies*									
		2409	001	1.0	Menkkat Asli Dukan	W	1:30PM	4:00PM	VCAM102	13
VIST	**H130A**	**Introduction to Performance Studies**								
	Through readings of theoretical texts, art works, dance, and experimental performance, we will explore performance as an interpretive framework for social behaviors, institutions, and presentations of self. Readings engage philosophy, psychoanalysis, anthropology, race studies, disability studies, and sexuality studies. Enrollment Limit: 25 No Notes *Attributes: A: Meaning, Interpretation (Texts) Humanities Gender and Sexuality Studies Visual Studies*									
		2371	001	1.0	Raegan Truax	M	1:30PM	4:00PM	VCAM201	3
VIST	**H142A**	**Introduction to Visual Studies**								
	An introduction to the trans-disciplinary field of Visual Studies, its methods of analysis and topical concerns. Traditional media and artifacts of art history and film theory, and also an examination of the ubiquity of images of all kinds, their systems of transmission, their points of consumption, and the very limits of visuality itself. Crosslisted: Visual Studies, Fine Arts, Comparative Literature Enrollment Limit: 25 Lottery Preference(s): 1.) Senior Visual Studies minors 2.) Other declared Visual Studies minors 5 spaces reserved for incoming first years *Attributes: A: Meaning, Interpretation (Texts) Visual Studies Humanities*									
		2365	001	1.0	Christina Knight	T Th	1:00PM	2:30PM	VCAM201	13
VIST	**H217A**	**Myth and Meaning in Contemporary Media Narratives**								
	This course explores contemporary myths presented through film, television, and gaming narratives that follow frameworks and story models of classic and post-millennial mythic journeys. These frameworks and models are used in the construction of myth and meaning as well as in the analysis and interpretation of contemporary stories with the power to entertain, educate and inspire audiences. Pre-requisite(s): N/A *Attributes: A: Meaning, Interpretation (Texts) Visual Studies Humanities*									
		2375	001	1.0	Elisabeth Sumpter	Th	1:30PM	4:00PM	VCAM102	11
VIST	**H230A**	**Postwar Japanese Cinema**								
	This course provides an introduction to Japanese cinema from the immediate Postwar period of 1945 to the present day. Focusing on films by influential directors including Ozu Yasujiro, Kurosawa Akira, and Mizoguchi Kenji among others we will consider how Japanese filmmakers use cinema to investigate issues of truth, beauty, identity, and nationhood in an attempt to answer fundamental questions regarding life and death in Japan’s Postwar period. Crosslisted: East Asian Languages & Cultures, Visual Studies, Environmental Studies Enrollment Limit: 15									
		2125	001	1.0						0
VIST	**H267A**	**Beauty Problems: Rhetoric, Aesthetics, Philosophy**								
	This course will examine a series of problems that beauty and other sensuous pleasures make for philosophy, film, and contemporary art. Works will include those of Plato, Immanuel Kant, Friedrich Nietzsche, Tanizaki Jun’ichiro, Isaac Julien, Elaine Scarry, Rosemarie Garland-Thomson, Fred Moten and others. *Attributes: A: Meaning, Interpretation (Texts) Visual Studies Humanities*									
		2407	001	1.0	John Hancock Muse	T Th	10:00AM	11:30AM	VCAM201	9
VIST	**H399A**	**Capstone for Visual Studies Minors**								
	Examines art, writing and exhibition practices centering in particular cultural contexts. Explores artists and curators who link art, identity, and politics, and the environment in their practice. Focuses on developing practical skills related to archival research, analysis of visual material and critical making. To be taken in fall semester of senior year.									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Prerequisite(s): Visual Studies minor Enrollment Limit: 12 *Attributes: Humanities Visual Studies*									
		2364	001	1.0	John Hancock Muse	F	1:30PM	4:00PM	VCAM201	11
WRPR	**H101A**	**Finding a Voice: Identity, Environment, and Intellectual Inquiry**								
	This course considers students fluid relationship to identities that they examine, explore, and take on through course materials. We begin by examining how difference is perceived/obscured/challenged and/or bridged in constructions of identity. We then consider how identities exist in the physical environment and how environment affects these identities. The different positions that experts have taken serves as a model, finally, for students to enter another scholarly debate within an area of interest in a possible prospective major. Open only to members of the first-year class as assigned by the Director of College Writing. Enrollment Limit: 12 *Attributes: First Year Writing*									
		2436	001	1.0	Nimisha Ladva	M W	11:30AM	1:00PM	GST103	9
		2437	002	1.0	Nimisha Ladva	M W	1:00PM	2:30PM	GST103	8
WRPR	**H102A**	**The Internet & Participatory Culture**								
	This semester, we will read and write, critically and purposefully, on what is considered the new public sphere: the internet. We will do this by investigating three major areas of internet culture: Cancel or Call-Out Culture, Meme Culture and the Culture of Web Activism (sometimes referred to as Slacktivism). Pre-requisite(s): Placement by Director of College Writing. Lottery Preference: Only open to first year students as placed by the Director of College Writing. Enrollment Limit: 10 *Attributes: First Year Writing*									
		2732	001	1.0	Marjorie Ana Hartman	T Th	10:00AM	11:30AM	ESTW115	8
		2733	002	1.0	Marjorie Ana Hartman	T Th	1:00PM	2:30PM	GST103	9
WRPR	**H112A**	**Interaction Ritual: The Novel and Sociology**								
	In this course, we will read a range of texts devoted to dissecting the interaction in British and American society and culture. These texts explore how the social interaction functions when it goes smoothly—and how it can go wrong. Prerequisite(s): First-year students as assigned by the Director of College Writing. Enrollment Limit: 12 *Attributes: First Year Writing*									
		2438	001	1.0	Rosetta Young	T Th	2:30AM	4:00AM	STO207	12
		2439	002	1.0	Rosetta Young	T Th	1:00PM	2:30PM	STO207	12
WRPR	**H118A**	**Portraits of Disability and Difference**								
	Rosemarie Garland-Thomson writes that "staring is an interrogative gesture that asks whats going on and demands the story. The eyes hang on, working to recognize what seems illegible, order what seems unruly, know what seems strange." In this seminar we will explore visual and literary portraits and self-portraits of bodies marked by difference, bodies that often elicit stares. We will ask: What kinds of stories are told about these bodies? How do memoirs and self-portraits by people with disabilities draw on and challenge traditions of life writing and portraiture? How does this work enlarge cultural and aesthetic views of embodiment, disability, and difference? Open only to first-year students as assigned by the Director of College writing. Enrollment Limit: 12 *Attributes: First Year Writing*									
		2440	001	1.0	Kristin Anne Lindgren	T Th	2:30PM	4:00PM	HLL106	11
WRPR	**H125A**	**On Higher Ed: Introduction to Critical University Studies**								
	A number of structural and historical conditions define higher education. This seminar offers an opportunity to explore such conditions by asking what college is as a historical, political-economic, and cultural institution. Pre-requisite(s): Placement by the Director of College Writing. Lottery Preference: Limited to first year students. Enrollment Limit: 12									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Attributes: First Year Writing									
		2676	001	1.0	Shannan Hayes					12
WRPR	**H128A**	**Reading Sacred Texts**								
	An introduction to reading sacred texts in an academic setting. In this course we will apply a variety of methodological approaches--literary, historical, sociological, anthropological or philosophical--to the reading of religious texts, documents and materials. Open only to first-year students as assigned by the Director of College Writing.									
	Enrollment Limit 12									
	Attributes: Humanities									
		2441	001	1.0	Naomi Koltun-Fromm	T Th	11:30AM	1:00PM	GST102	12
WRPR	**H133A**	**The American West in Fact and Fiction**								
	An examination of the imagery of the American West. Using visual and verbal images, this course explores such diverse aspects of the West as cowboys, cartography, water rights, race and social class, technology, religion, prostitution, and landscape painting.									
	Open only to member of the first-year class as assigned by the Director of College Writing.									
	Enrollment Limit: 12									
	Attributes: First Year Writing A: Meaning, Interpretation (Texts)									
		2442	001	1.0	Emma Lapsansky	T Th	10:00AM	11:30AM	GST103	12
WRPR	**H136A**	**Black Ecologies**								
	This course engages writings and cultural works about Black eco-literary and ecological traditions. Black Ecologies focuses on the multiple ecological and spatial conditions that have over-determined Black life and relationships to nature including the middle passage, slavery, racial segregation, food apartheid, gentrification and even incarceration. All these phenomena have produced unequal access to natural resources, space, food and land through systems that racialize, gender and commodify space. By exploring Black cultural and land based worker's literary, cultural, and community responses to anti-Black environmental conditions, we will consider how Black communities reclaim spatial autonomy through creative modes of collective liberation. Student's critical and creative writing will be based on course texts and outdoor experiences of observation and laboring collectively at Haverfarm. Open only to first-year students as assigned by the Director of College Writing.									
	Crosslisted: AFST,ENVS.									
	Attributes: Environmental Studies Africana Studies									
		2448	001	1.0	Tajah Ebram	T Th	11:30AM	1:00PM	HLL106	12
		2449	002	1.0	Tajah Ebram	T Th	1:00PM	2:30PM	HLL106	12
WRPR	**H137A**	**Cleopatra: The Woman, The Queen, The Icon**								
	This seminar will guide students through recovering the historical figure of Cleopatra, as well as applying feminist theory to investigate how her image has been manipulated to suit the purposes of moralists, artists, and scholars. Students will read several pieces of modern scholarship that argue for different interpretations of her racial and ethnic identity, and consider why Cleopatra's racial and ethnic identity is (or is not) an important question for us as modern students.									
	Pre-requisite(s): Placement by the Director of College Writing.									
	Lottery Preference: First year students through the writing placement.									
	Enrollment Limit: 12									
	Attributes: First Year Writing									
		2609	001	1.0	Katheryn E. Whitcomb	T Th	10:00AM	11:30AM	UN114	12
WRPR	**H150A**	**Approaches to Literary Analysis**								
	Intended like other sections of the Writing Program to advance students' critical reading and analytical writing skills, this course is geared specifically towards introducing students to the discipline that studies the literary traditions of the English language. One of its aims is to explore the broad range of thematic interests inherent in these traditions, sharing as they do common roots in the history of our language and its influences. The powers and limits of language; ideas of character and community, and the relation between person and place; heroic endeavor and the mystery of evil; loss and renovation these are among the themes to be tracked through various strategies of literary representation and interpretation in a variety of genres (epic, narrative, and poetry) and modes (realism, allegory, and romance), and across a range of historical periods. Our goal is to develop the vocabulary, skills, and knowledge necessary to understand not only how we									

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	decide what literary texts mean, but also how literary texts generate and contemplate meaning. Open only to first-year students as assigned by the Director of College Writing. Enrollment Limit: 12 *Attributes: First Year Writing*									
		2443	001	1.0	Kimberly Benston	T Th	2:30PM	4:00PM	LUT230	12
		2444	002	1.0	Maud B McInerney	T Th	10:00AM	11:30AM	GST102	12
		2445	003	1.0	Elizabeth Kim	T Th	10:00AM	11:30AM	SHA416	10
		2672	004	1.0	Debora Sherman	T Th	10:00AM	11:30AM	WDS	11
WRPR	**H159A** **Gender and Sexuality in Islamic Texts and Practices** This course introduces students to the different views of gender and sexuality in Islamic thought, and situates these views within Muslim histories and societies. We will draw on primary sources, historiographical work, ethnographies of Muslim societies, fiction, poetry, and play. One major focus will be on homosexuality in Islam and Muslim societies. In the course of this examination we will also have a chance to question what “homosexuality” is and whether this term can be applied cross-culturally and cross-religiously. To think critically about homosexuality in Islam will thus compel us to reconsider homosexuality and Islam at once. Open only to first-year students as assigned by the Director of College Writing. Enrollment Limit: 12 *Attributes: Middle Eastern & Islamic Studies First Year Writing Gender and Sexuality Studies*									
		2569	001	1.0	Guangtian Ha	T Th	2:30PM	4:00PM	GST103	12
WRPR	**H188A** **Epidemics and Society** An examination of the ways epidemics are shaped by society, culture, and popular representation, using historical sources to explore the politics of disease narratives and how class, race, and identity influence responses to epidemics. Open only to first-year students as assigned by the Director of College Writing. Enrollment Limit: 12 *Attributes: First Year Writing Health Studies*									
		2446	001	1.0	Eli Anders	T Th	10:00AM	11:30AM	LUT002	12
		2447	002	1.0	Eli Anders	T Th	1:00PM	2:30PM	LUT002	12