



HAVERFORD COLLEGE

FALL 2023 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-3:55 PM
M	7:30 PM-9:55 PM
M F	1:00 PM-2:25 PM
M W F	8:30 AM-9:25 AM
M W F	9:30 AM-10:25 AM
M W F	10:30 AM-11:25 AM
M W F	11:30 AM-12:25 PM
M W F	1:30 PM-2:25 PM
M W F	2:30 PM-3:25 PM
M W	11:30 AM-12:55 PM
M W	1:00 PM-2:25 PM
M W	2:30 PM-3:55 PM
M F	11:30 AM-12:55 PM
M F	2:30 PM-3:55 PM
T	1:30 PM-3:55 PM
T	7:30 PM-9:55 PM
T Th	8:30 AM-9:55 AM
T Th	10:00 AM-11:25 AM
T Th	11:30 AM-12:55 PM
T Th	1:00 PM-2:25 PM
T Th	2:30 PM-3:55 PM
Th	1:30 PM-3:55 PM
W	1:30 PM-3:55 PM
W F	11:30 AM-12:55 PM
W F	1:00 PM-2:25 PM
W F	2:30 PM-3:55 PM
F	1:30 PM-3:55 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 2023)	
Wednesday, August 30	First year and transfer students arrive
Sunday, September 3	Residence Halls open for returning students
Monday, September 4	Labor Day – Classes not in session
Tuesday, September 5	Classes begin at Haverford, Bryn Mawr, and Swarthmore
Friday, September 8	Last day to uncover Pass/Fail courses from previous semester
Wednesday, September 13	Final academic verification at Haverford and Bryn Mawr Registration ends
Friday, September 22	Last day to drop a credit at Haverford and Bryn Mawr
Friday, October 6	Faculty reports of concern to CSSP due Academic Flexibility Petitions to CSSP due
Friday, October 13	Fall break begins at 4:00 p.m.
Monday, October 23	Classes resume at 8:30 a.m.
Friday, October 27	First quarter classes end. Last day to request Pass/Fail, First Quarter courses only.
Friday, October 27 - Sunday, October 29	Family and Friends Weekend (Tentative)
Monday, October 30	Second quarter class begin
Monday, November 6	Pre-Registration for spring semester begins
Wednesday, November 8	Last day to drop second quarter class
Friday, November 10	Faculty reports of concern to CSSP due Academic Flexibility Petitions to CSSP due
Friday, November 17	Pre-Registration for spring semester ends
Wednesday, November 22	Thanksgiving break begins at 4:00 p.m.
Monday, November 27	Classes resume at 8:30 a.m.
Friday, December 15	Classes end at Haverford; optional Reading Day Last day to request Pass/Fail, full semester & 2nd quarter courses All papers (except those in lieu of exams) due
Saturday, December 16 - Sunday, December 17	Reading Period
Monday, December 18- Friday, December 22	Final Examination Period
Friday, December 22	Semester ends at 12:00 noon Final examinations due at 12:00 noon
Friday, January 5	Final grades due in Registrar's Office by 12:00 noon

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
AFST	H101A	Introduction to African and Africana Studies								
		An interdisciplinary introduction to Africana Studies, emphasizing change and response among African peoples in Africa and outside.								
		<i>Attributes: Africana Studies B: Analysis of the Social World Social Science</i>								
		2708	001	1.0	Kevin Quin	T Th	2:30PM	3:55PM	CHS101	5
		2708	001	1.0	Kevin Quin	T Th	2:30PM	3:55PM	CHS101	5
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 <i>Attributes: A: Meaning, Interpretation (Texts) Africana Studies B: Analysis of the Social World Gender and Sexuality Studies Humanities</i>								
		2707	001	1.0	Terrance Wiley	M	7:30PM	9:55PM	UN111	1
AFST	H376A	Literature and Politics of South African Apartheid								
		This course explores the history and historiography of South African apartheid from its inception in 1948 to its democratic overthrow in 1994. We will consider the interplay between complex definitions of race, gender, nation and difference in novels, plays, and poetry written during the apartheid years. We will also discuss the tension between an ethics and aesthetics of literary production in a time of political oppression. What would it mean for one to write an apolitical text in a cultural space rife with racial and social tensions? Authors will include Nadine Gordimer, Alan Paton, J.M.Coetzee, Bessie Head, and Alex La Guma. Crosslisted with Africana Studies.								
		Enrollment Limit: 15 Lottery Preferences: 1. English majors, 2. Africana Studies concentrators, then all others by class year. <i>Attributes: Africana Studies Humanities</i>								
		2642	001	1.0	Laura McGrane	W	1:30PM	3:55PM	UN111	2
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 <i>Attributes: B: Analysis of the Social World Social Science</i>								
		1689	001	1.0	Zolani Noonan-Ngwane	M W	11:30AM	12:55PM	SHA410	36
ANTH	H265A	Medical Anthropology								
		What does it mean to attempt a critical anthropology of the body, illness experience, disease etiology, healing practices, and the epistemology of contemporary biomedicine across a diverse group of cultures and traditions? This course seeks to begin to answer this and other questions by examining the historical development of the field of medical anthropology, exploring the theoretical and philosophical underpinnings of the debates that have shaped the field, and examining the methodological concerns and ethnographic investigations that have broadened the scope of its inquiry. Readings range from classical ethnographic writings, philosophical treatises, anthropological theory, indigenous philosophers, and first person accounts of illness and health.								
		Enrollment Limit: 25 Lottery Preference(s): 1.) Health Studies minors 2.) Anthropology majors and minors <i>Attributes: B: Analysis of the Social World Health Studies Humanities</i>								
		1716	001	1.0	Michael D'Arcy	T Th	1:00PM	2:25PM	UNMAC	17
ANTH	H275A	Race and Representation in Documentary Filmmaking								

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<p>This is an introductory cross-listed (Visual Studies/Anthropology) production course on the theory and practice of documentary filmmaking through an exploration of race onscreen. The objective of the course is to enable students to build a critical awareness of the ways in which film and media in general perpetuate racist discourses and representations and explore how students can challenge such representations through their own filmmaking practices. As inspiration, we will watch and study a wide variety of innovative documentary films that bring alternative voices and histories to screen and read/watch filmmaker interviews. Classes will combine elements of a studio (sharing and critiquing filmmaking work in progress) and seminar (discussing weekly themes).</p> <p>Crosslisted: VIST.</p> <p>Lottery Preference: Senior students in anthropology and visual studies have a priority to take this class.</p> <p>Enrollment Limit: 12.00</p> <p>Attributes: A: Creative Expression B: Analysis of the Social World Social Science Visual Studies</p> <p>1711 001 1.0 Zeynep Sertbulut T Th 11:30AM 12:55PM VCAM201 11</p>										
ANTH	H276A	<p>Global Media Worlds</p> <p>This course takes an anthropological approach to examine social and cultural practices of media production, circulation, and consumption. Drawing on ethnographic studies from around the world, it provides an overview of the increasing theoretical attention given to media by anthropologists. It examines cross-culturally how media as representation and as cultural practice have been fundamental to the formation and transformation of subjectivities, collectivities and social relations in the contemporary world.</p> <p>Pre-requisite(s): 100-level course in social sciences, or humanities.</p> <p>Lottery Preference: Senior anthropology students have a priority to take the class.</p> <p>Enrollment Limit: 25.00</p> <p>Attributes: B: Analysis of the Social World Social Science</p> <p>1713 001 1.0 Zeynep Sertbulut T Th 2:30PM 3:55PM 10</p>								
ANTH	H303A	<p>History and Theory of Anthropology</p> <p>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.</p> <p>Prerequisite(s): One course in ANTH, excluding BMC ANTH B303</p> <p>Attributes: B: Analysis of the Social World Social Science</p> <p>1154 001 1.0 Zolani Noonan-Ngwane Th 1:30PM 3:55PM 15</p>								
ANTH	H336A	<p>Science, Technology, Medicine, Power: (De)colonial knowledge production & epistemological community</p> <p>This course traces the relationship between scientific knowledge production, notions of technological "progress," and political, economic, and institutional power through the disciplinary histories of anthropology and Science and Technology Studies. Texts will include STS classics that frame contemporary science and medicine as the products of political and economic history, as well as work in anthropology and STS that center non-western and indigenous traditions of knowledge and the voices of BIPOC and feminist scholars.</p> <p>Crosslisted: HLTH.</p> <p>Pre-requisite(s): Introductory level coursework in anthropology (sociocultural or medical) or health studies</p> <p>Lottery Preference: Anthropology, health studies, history, political science</p> <p>Enrollment Limit: 15.00</p> <p>Attributes: B: Analysis of the Social World Health Studies Social Science</p> <p>2717 001 1.0 Michael D'Arcy W 1:30PM 3:55PM 10</p>								
ANTH	H450A	<p>Senior Seminar: Research and Writing</p> <p>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.</p> <p>Attributes: B: Analysis of the Social World Social Science</p> <p>1157 001 1.0 Emily Teera-Hong T 1:30PM 3:55PM 13</p>								
ARAB	H001A	<p>Introduction to Modern Standard Arabic</p> <p>Three additional hours of Drill required.</p>								

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	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									
	1143	001	1.5	Manar Darwish		T Th	8:30AM	10:00AM	STO10	12
	1144	00A	.0	Manar Darwish	Meets at Haverford	M W F	8:30AM	9:25AM	STO10	8
	1145	00B	.0	Manar Darwish	Meets at Bryn Mawr	M W F	10:10AM	11:00AM		4
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								
	1236	001	.5	Michael Shultis		M	7:30PM	9:55PM	ARTS8A	15
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: A: Creative Expression Humanities Visual Studies								
	1246	001	.5	Michael Shultis		M	7:30PM	9:55PM	ARTS8A	15
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: A: Creative Expression Humanities Visual Studies								
	1234	001	.5	William Williams		M	1:30PM	3:55PM	ARTS15	14
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: A: Creative Expression Humanities Visual Studies								
	1245	001	.5	Markus Baenziger		W	1:30PM	3:55PM	ARTS8A	15
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								

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					Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1238 001 .5 Markus Baenziger	W	1:30PM	3:55PM	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: A: Creative Expression Humanities Visual Studies 2457 001 .5 Jonathan C. Goodrich	T	10:00AM	12:25PM	ARTS8A	15
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 & 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: A: Creative Expression Humanities Visual Studies 1237 001 .5 Jonathan C. Goodrich	T	10:00AM	12:25PM	ARTS8A	5
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: A: Creative Expression Humanities Visual Studies 1235 001 .5 William Williams	M	1:30PM	3:55PM	ARTS15	13
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: A: Creative Expression Humanities Visual Studies 1247 001 .5 Hee Sook Kim	W	10:00AM	12:25PM	LOCK105	13
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: A: Creative Expression Humanities Visual Studies 1240 001 .5 Hee Sook Kim	W	10:00AM	12:25PM	LOCK105	12
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 visibility itself. Crosslisted: Visual Studies, Fine Arts, Comparative Literature Enrollment Limit: 25 Lottery Preference(s):					

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
					1.) Senior Visual Studies minors 2.) Other declared Visual Studies minors 5 spaces reserved for incoming first years <i>Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies</i> 1508 001 1.0 John Hancock Muse	T Th	10:00AM	11:25AM	VCAM201	3
ARTS	H231A				Drawing (2-D): All Media Students are encouraged to experiment with various drawing media and to explore the relationships between media, techniques and expression. Each student will strive to develop a personal approach to drawing while addressing fundamental issues of pictorial space, structure, scale, and rhythm. Students will work from observation, conceptual ideas and imagination. Course includes drawing projects, individual and group crits, slide lectures, museum and gallery visits. <i>Attributes: A: Creative Expression Humanities Visual Studies</i> 1581 001 1.0 Jonathan C. Goodrich	T	1:30PM	3:55PM	ARTS8A	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. <i>Attributes: A: Creative Expression Humanities Visual Studies</i> 1239 001 1.0 Markus Baenziger	W	10:00AM	12:25PM	ARTS8A	10
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. <i>Attributes: A: Creative Expression Humanities Visual Studies</i> 1250 001 1.0 William Williams	M	10:00AM	12:25PM	ARTS15	5
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 <i>Attributes: Humanities</i> 2456 001 1.0 Hee Sook Kim	Th	10:00AM	12:25PM	LOCK105	4
ARTS	H333A				Experimental Studio: Painting Students will build on the work done in 200 level courses to develop further their individual approach to painting. Students are expected to create projects that demonstrate the unique character of their chosen media in making their own art. Completed projects will be exhibited at the end of semester. Class will include weekly crits, museum visits, visiting artists' lecture and crits. Each student will present a 15- minute slide talk and discussion of either their own work or the work of artists who influenced them. <i>Attributes: A: Creative Expression Humanities Visual Studies</i> 1582 001 1.0 Jonathan C. Goodrich	W	10:00AM	12:25PM	ARTS8A	6

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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. <i>Attributes: A: Creative Expression Humanities Visual Studies</i>								
		1249	001	1.0	William Williams	W	10:00AM	12:25PM	ARTS15	1
ARTS	H460A	Teaching Assistant 1248 001 .5 TBA Department staff								
ARTS	H460D	Teaching Assistant 1242 001 .5 TBA Department staff 1244 002 .5 TBA Department staff								
ARTS	H460E	Teaching Assistant 1243 001 .5 TBA Department staff								
ARTS	H480A	Independent Study This course gives the advanced student the opportunity to experiment with concepts and ideas and to explore in depth his or her talent. Prerequisite: consent of instructor. 2749 001 1.0 Jonathan C. Goodrich								
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. <i>Attributes: Humanities</i> 1241 001 1.0 Hee Sook Kim								
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 <i>Attributes: C: Physical and Natural Processes Natural Science Scientific Computing</i> 1295 001 1.0 Islam Khan								
ASTR	H325A	Advanced Topics in Theoretical Physics An introductory course in general relativity with an emphasis on physical principles and geodesics in curved spacetime. Topics include special relativity, the calculus of variations, metrics, tensors, parallel transport, covariant derivatives, geodesics, the equivalence principle, gravitational redshift, the static weak-field metric, the Schwarzschild metric describing spacetime outside of a black holes or star, the precession of planetary orbits and the bending of light by massive objects. Additional topics may include applications to rotating black holes, gravitational waves, cosmology, or Hawking radiation. Prerequisites: Phys H213 or PHYS B205 and B207. <i>Attributes: C: Physical and Natural Processes Natural Science</i>								

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		2624	001	1.0	Daniel Grin	T Th	1:00PM	2:25PM	HLS109	13
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									
	Attributes: Natural Science									
	1296	001	1.0	Andrea N. Lommen						0
	1297	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									
	1300	001	.5	Andrea N. Lommen						0
	1301	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 but does satisfy the prerequisite for BiolH200A. There is no separate lab section (labs are integrated into the class time).									
	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									
	2888	001	1.0	Rachel Hoang	Th	1:30PM	3:55PM	FDR220		9
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. Four sections, limited to 35.									
	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									
	Attributes: C: Physical and Natural Processes Natural Science									
	1262	001	1.0	Foen Peng	M W	11:30AM	12:55PM	CHS101		31
	1572	002	1.0	Eric Miller	T Th	10:00AM	11:25AM	CHS101		37
	1573	003	1.0	Jessica Comstock	T Th	10:00AM	11:25AM	CHS104		35
	2867	004	1.0	Jessica Comstock	M W	11:30AM	12:55PM	CHS104		0
	1263	00A	.0	Lee Dietterich	Lab	T	1:00PM	4:00PM	SHA118	24
	1263	00A	.0	Shirley Lang	Pre-Lab	T	1:00PM	2:30PM	SHA113	24
	1264	00B	.0	Shirley Lang	Pre-Lab	W	1:00PM	2:30PM	SHA113	23
	1264	00B	.0	Nancy Maas	Lab	W	1:00PM	4:00PM	SHA118	23

Haverford College Fall 2023 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1265	00C	.0	Shirley Lang	Th	1:00PM	2:30PM	SHA113	24
		1265	00C	.0	Lee Dietterich	Th	1:00PM	4:00PM	SHA118	24
		1266	00D	.0	Shirley Lang	F	1:00PM	2:30PM	SHA113	24
		1266	00D	.0	Nancy Maas	F	1:00PM	4:00PM	SHA118	24
		2868	00E	.0	Nancy Maas	F	8:30AM	11:30AM	SHA118	8
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.								
		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, NEUR H100, Psychology AP Score 4								
		Enrollment Limit: 35								
		Lottery Preference(s): 1) Psych majors, neuroscience majors, and neuroscience minors, 2) sophomores, 3) other juniors and seniors								
		<i>Attributes: B: Analysis of the Social World C: Physical and Natural Processes Natural Science Neuroscience</i>								
		1683	001	1.0	Samantha Fortin	T Th	10:00AM	11:25AM	FDR220	20
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								
		<i>Attributes: C: Physical and Natural Processes Natural Science C: Physical and Natural Processes Natural Science</i>								
		1665	001	.0	Robert Fairman	M	1:00PM	2:25PM	SHAAUD	36
		1665	001	.0	Karl A. Johnson	M	1:00PM	2:25PM	SHAAUD	36
		1663	00A	1.0	Robert Fairman	T Th	1:00PM	4:00PM	ESTW105	19
		1663	00A	1.0	Karl A. Johnson	T Th	1:00PM	4:00PM	ESTW105	19
		1664	00B	1.0	Karl A. Johnson	W F	1:00PM	4:00PM	ESTW105	17
		1664	00B	1.0	Robert Fairman	W F	1:00PM	4:00PM	ESTW105	17
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								
		<i>Attributes: C: Physical and Natural Processes Natural Science</i>								
		1279	001	.5	Robert Fairman	M	1:00PM	2:25PM	SHAAUD	0
		1280	00A	.0	Robert Fairman	T Th	1:00PM	4:00PM	ESTW105	0
		1281	00B	.0	Robert Fairman	W F	1:00PM	4:00PM	ESTW105	0

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
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.								
		Enrollment Limit: 32								
		Lottery Preference(s): Biology majors								
		Attributes: C: Physical and Natural Processes Natural Science								
		1282	001	.5	Karl A. Johnson	M	1:00PM	2:25PM	SHAAUD	0
		1283	00A	.0	Karl A. Johnson	T Th	1:00PM	4:00PM	ESTW105	0
		1284	00B	.0	Karl A. Johnson	W F	1:00PM	4:00PM	ESTW105	0
BIOL	H302A	Advanced Lab in Neuroscience								
		One lecture and two laboratory periods per week. An introduction to applying modern molecular, cellular, and/or behavioral experimental approaches for studying nervous system development and function. Model organisms will be used to investigate novel neurobiological questions, drawing from experimental techniques including: genetic manipulation, electrophysiological recording, neuropharmacology, fluorescence imaging, optogenetic manipulation of neural activity, behavioral assay design, and computational tracking and analysis of animal behavior.								
		Prerequisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, or PSYC 217/218 and a second 200-level natural science course, or instructor consent.								
		Enrollment Limit: 16								
		Lottery Preference(s): 1. Junior & Senior Biology and Neuroscience Majors, 2. Neuroscience minors, 3. class year								
		Attributes: C: Physical and Natural Processes Natural Science								
		2898	001	1.0	Roshan Jain	M	7:30PM	8:55PM	SHA510	0
		2899	00A	.0	Roshan Jain	W F	1:00PM	3:55PM	SHA510	0
BIOL	H304D	Neurobiology of Aging								
		This course will take an in-depth look at age-related changes in the central nervous system (CNS), focusing on both neuronal and non-neuronal contributors. The relationship of these nervous system changes to age-related cognitive decline will be highlighted.								
		Prerequisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above.								
		Enrollment Limit: 25								
		Attributes: C: Physical and Natural Processes Health Studies Natural Science Neuroscience								
		2638	001	.5	Mary Ellen Kelly	T	7:30PM	9:55PM		25
BIOL	H313D	Structure and Function of Macromolecules								
		A study of the structure and function of proteins, including enzymes, assembly systems and proteins involved in interactions with nucleic acids and membranes.								
		Prerequisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, CHEM H221 or equivalent to be taken previously or concurrently, or instructor consent								
		Attributes: Biochemistry and Molecular Biology Biophysics C: Physical and Natural Processes Natural Science								
				2730	001	.5	Robert Fairman	M W	10:00AM	11:25AM
BIOL	H314E	Biochemistry: Metabolic Basis of Disease								
		This course will introduce students to advanced biosynthetic processes associated with carbohydrate, nucleic acid, protein and lipid metabolism. A coverage of the pathways and the experiments which defined them will be accompanied by discussions of their direct relevance to disease, abnormality and evolutionary adaptation.								
		Prerequisite(s): BIOL H200A and B or instructor consent								
		Attributes: C: Physical and Natural Processes Natural Science								
				2731	001	.5	Robert Fairman	M W	10:00AM	11:25AM

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
BIOL	H329E	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 Enrollment Limit: 25 Lottery Preference(s): Seniors and then Juniors, or by permission of instructor Attributes: C: Physical and Natural Processes Natural Science								
	2604	001	.5	Jay Lunden		T	7:30PM	9:55PM		23
BIOL	H335E	Bioinformatics This course will provide an introduction to the interdisciplinary field of Bioinformatics. Students will learn a variety of approaches for the acquisition, organization, analysis and interpretation of biological data sets using computational tools. Pre-requisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, or instructor consent Enrollment Limit: 25 Attributes: C: Physical and Natural Processes Natural Science								
	2889	001	.5	Geoffrey Hutinet		T Th	10:00AM	11:25AM		0
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								
	1268	001	1.0	TBA Department staff						0
	1794	002	1.0	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								
	1292	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								
	1289	001	.5	TBA Department staff						0
	1797	002	.5	TBA Department staff						0
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								
	1287	001	1.0	Eric Miller						3
BIOL	H400F	Senior Research Tutorial at Off-Campus Research Labs								

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<p>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 410 must have designated on-campus and off-campus supervisors.</p> <p>Prerequisite(s): BIOL H300A and B with a grade of 2.0 or above and instructor consent.</p> <p>Attributes: Natural Science</p>										
		1550	001	.5	Foen Peng					0
BIOL	H403A	<p>Senior Research Tutorial in Protein Aggregation and Disease</p> <p>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.</p> <p>Prerequisite(s): Instructor consent</p> <p>Enrollment Limit: 7</p> <p>Attributes: Natural Science Neuroscience</p>								
		1270	001	1.0	Robert Fairman	F	1:30PM	2:55PM		5
BIOL	H403F	<p>Senior Research Tutorial in Protein Aggregation and Disease</p> <p>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.</p> <p>Prerequisite(s): Instructor consent</p> <p>Enrollment Limit: 7</p> <p>Attributes: Natural Science Neuroscience</p>								
		1271	001	.5	Robert Fairman					0
BIOL	H404A	<p>Senior Research Tutorial in Molecular Microbiology</p> <p>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.</p> <p>Prerequisite(s): Instructor consent</p> <p>Attributes: Natural Science</p>								
		1274	001	1.0	Eric Miller					1
		2602	002	1.0	Jessica Comstock					5
BIOL	H404F	<p>Senior Research Tutorial in Molecular Microbiology</p> <p>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.</p> <p>Prerequisite(s): Instructor consent.</p> <p>Attributes: Natural Science</p>								

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		1275	001	.5	Eric Miller					0
		2603	002	.5	Jessica Comstock					0
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								
		1260	001	1.0	Kristen Whalen					1
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								
		1261	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								
		1276	001	1.0	Rachel Hoang					3
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 hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 Attributes: Natural Science								
		1277	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								
		1272	001	1.0	Karl A. Johnson					3
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.								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld	
Prerequisite(s): Instructor consent Enrollment Limit: 7 Attributes: Natural Science 1273 001 .5 Karl A. Johnson											
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: Natural Science Neuroscience 1285 001 1.0 Roshan Jain									2
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 1286 001 .5 Karl A. Johnson									4
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 1291 001 1.0 Amy Cooke									0
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: C: Physical and Natural Processes Natural Science 1294 001 1.0 Amy Cooke									1
BIOL	H418A	Senior Research Tutorial in Evolutionary Genetics									0

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<p>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.</p> <p>Pre-requisite(s): Instructor consent</p> <p>Lottery Preference: None (this is a senior capstone course for Biology Majors)</p> <p>Enrollment Limit: 7</p> <p>Attributes: C: Physical and Natural Processes Natural Science</p>										
		1526	001	1.0	Foen Peng					3
BIOL	H418F	<p>Senior Research Tutorial in Evolutionary Genetics</p> <p>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.</p> <p>Pre-requisite(s): Instructor consent</p> <p>Lottery Preference: None (this is a senior capstone course for Biology Majors)</p> <p>Enrollment Limit: 7</p> <p>Attributes: C: Physical and Natural Processes Natural Science</p>								
		1527	001	.5	Foen Peng					0
BIOL	H450D	<p>Advanced Topics in Biology</p> <p>A seminar course exploring the primary literature in a specialized area of cell and molecular biology. Students will read current and historically important original papers as well as pertinent review articles. Oral presentations and written work provide the opportunity for students to demonstrate their ability to critically evaluate current literature in a sub-field of their major discipline.</p> <p>Prerequisite(s): BIOL H300 and BIOL H301 with a grade of 2.0 or above, or instructor consent</p> <p>Enrollment Limit: 15</p> <p>Lottery Preference(s): (1) Senior Haverford Biology majors , (2) other seniors, (3) junior Haverford Biology majors</p> <p>Attributes: Natural Science Scientific Computing</p>								
		1579	001	.5	Eric Miller	M W	10:00AM	11:25AM		11
BIOL	H450E	<p>Advanced Topics in Biology</p> <p>A seminar course exploring the primary literature in a specialized area of cell and molecular biology. Students will read current and historically important original papers as well as pertinent review articles. Oral presentations and written work provide the opportunity for students to demonstrate their ability to critically evaluate current literature in a sub-field of their major discipline.</p> <p>Prerequisite(s): BIOL H300 and BIOL H301 with a grade of 2.0 or above, or instructor consent</p> <p>Enrollment Limit: 15</p> <p>Lottery Preference(s): (1) Senior Haverford Biology majors , (2) other seniors, (3) junior Haverford Biology majors</p> <p>Attributes: Natural Science Scientific Computing</p>								
		1709	001	.5	Foen Peng	M W	10:00AM	11:25AM		7
		2869	002	.5	Lee Dietterich	M W	1:00PM	2:25PM		0
BIOL	H499J	<p>Senior Department Studies</p> <p>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.</p> <p>Prerequisite(s): Department consent</p> <p>Attributes: Natural Science</p>								
		1278	001	.5	Karl A. Johnson	M	2:30PM	3:55PM	SHAAUD	31
CHEM	H111A	<p>Chemical Structure and Bonding</p>								

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					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: Biochemistry and Molecular Biology	C: Physical and Natural Processes	Natural Science	Quantitative		
	2347	001	1.0	Alexander Norquist		M W F	8:30AM	9:25AM	STO131	23
	1369	002	1.0	Alexander Norquist		M W F	9:30AM	10:25AM	STO131	13
	1392	003	1.0	Robert C. Scarrow		M W F	9:30AM	10:25AM	HLS109	0
	2519	004	1.0	Robert C. Scarrow		M W F	11:30AM	12:25PM	HLS109	10
	1360	00A	.0	Kelly Ginion Matz		T	1:00PM	3:55PM	ESTW305	18
	1361	00B	.0	Kelly Ginion Matz		W	1:00PM	3:55PM	ESTW305	9
	1362	00C	.0	Kelly Ginion Matz		Th	1:00PM	3:55PM	ESTW305	7
	1363	00D	.0	Kelly Ginion Matz		F	1:00PM	3:55PM	ESTW305	12
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: Biochemistry and Molecular Biology	C: Physical and Natural Processes	Natural Science	Quantitative		
	1367	001	1.0	Theresa D. Gaines		M T W Th F	9:00AM	9:55AM	SHA113	5
	1370	00A	.0	Kelly Ginion Matz		T	1:00PM	3:55PM	ESTW305	3
	1371	00B	.0	Kelly Ginion Matz		W	1:00PM	3:55PM	ESTW305	2
	1372	00C	.0	Kelly Ginion Matz		Th	1:00PM	3:55PM	ESTW305	0
	1373	00D	.0	Kelly Ginion Matz		F	1:00PM	3:55PM	ESTW305	0
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: Biochemistry and Molecular Biology	C: Physical and Natural Processes	Health Studies	Natural Science		
	1355	001	1.0	Louise Charkoudian		M W F	9:30AM	10:25AM	UNMAC	27
	1590	002	1.0	Leah Seebald		M W F	9:30AM	10:25AM	ESTW309	27
	2520	003	1.0	Louise Charkoudian		M W F	11:30AM	12:25PM	UNMAC	21
	2813	004	1.0	Leah Seebald		M W F	11:30AM	12:25PM	ESTW309	19
	1357	00B	.0	Alberto Lopez		T	1:00PM	3:55PM	ESTW307	27
	1358	00C	.0	Alberto Lopez		W	1:00PM	3:55PM	ESTW307	22
	1359	00D	.0	Alberto Lopez		Th	1:00PM	3:55PM	ESTW307	28
	2832	00F	.0	Alberto Lopez		M	1:00PM	3:55PM	ESTW307	17
CHEM	H261J	Research Tutorial in Physical Chemistry								

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					<p>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.)</p> <p>Prerequisite(s): Instructor consent: interested students should discuss possible enrollment with the instructor.</p> <p>Attributes: C: Physical and Natural Processes Natural Science</p>					
		1374	001	.5	Casey H Londergan					2
		2522	002	.5	Samuel Shepard					0
CHEM	H262J	<p>Research Tutorial in Theoretical Chemistry</p> <p>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.)</p> <p>Prerequisite(s): Instructor consent</p> <p>Attributes: C: Physical and Natural Processes Natural Science</p>								
		1393	001	.5	Clyde Daly					0
CHEM	H263J	<p>Research Tutorial in Organic Chemistry</p> <p>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.)</p> <p>Prerequisite(s): Instructor consent</p> <p>Attributes: C: Physical and Natural Processes Natural Science</p>								
		1375	001	.5	Theresa D. Gaines					0
CHEM	H265J	<p>Research Tutorial in Bioinorganic Chemistry</p> <p>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.</p> <p>Prerequisite(s): Instructor consent (requires prior discussion of, and agreement on, type of research to be pursued; this 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</p> <p>Attributes: C: Physical and Natural Processes Natural Science</p>								
		1376	001	.5	Robert C. Scarrow					0
CHEM	H267J	<p>Research Tutorial in Biological Chemistry</p> <p>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.</p> <p>Prerequisite(s): Instructor consent</p>								
		1377	001	.5	Louise Charkoudian					0
		1591	002	.5	Leah Seebald					1
CHEM	H268A	<p>Research Tutorial in Environmental Chemistry</p> <p>One-half credit course for the semester 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.)</p> <p>Prerequisite(s): Instructor consent</p> <p>Attributes: C: Physical and Natural Processes Natural Science</p>								
		1553	001	1.0	Helen K. White					0
CHEM	H268F	<p>Research Tutorial in Environmental Chemistry</p> <p>One-half credit course for the semester 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.)</p> <p>Prerequisite(s): Instructor consent</p> <p>Attributes: C: Physical and Natural Processes Natural Science</p>								
		1552	001	.5	Helen K. White					0

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
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 1378 001 .5 Helen K. White					0
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: C: Physical and Natural Processes Natural Science 1379 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: Biochemistry and Molecular Biology C: Physical and Natural Processes Natural Science 1365 001 1.0 Frances R. Blase 1366 00A .0 Frances R. Blase	T T Th	11:30AM 1:00PM	12:25PM 3:55PM	HLS108 ESTW108	38 38
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: Biochemistry and Molecular Biology Biophysics C: Physical and Natural Processes Natural Science Quantitative 1364 001 1.0 Casey H Londergan	T Th	8:30AM	9:55AM	UNMAC	48
CHEM	H310D				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 Lottery Preference: Declared Majors: Seniors, then Juniors Enrollment Limit: 25 Attributes: C: Physical and Natural Processes Natural Science 2523 001 .5 Helen K. White	T	7:30PM	9:55PM	HLS108	21
CHEM	H355E				Topics in Advanced Organic Chemistry: Photochemistry Photochemistry, the study of the interaction of molecules with light, gives us insight into topics as diverse as photosynthesis, atmospheric ozone formation, semiconductor manufacturing, and even the mechanism by which you are currently perceiving the words on this page. This course will build off of concepts introduced in quantum chemistry to dive deeply into these fundamental light-matter interactions. We'll discuss core photophysical topics such as what determines why some					

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
					molecules interact with visible light and what causes fluorescence, and photochemical concepts of chemical reactions from the excited state. The course will culminate with students presenting an independent project on a photochemical concept or application that interests them. Prerequisite(s): CHEM H305 or co-requisite: CHEM B221 Attributes: C: Physical and Natural Processes Natural Science					
		1704	001	.5	TBA Department staff	M W F	9:30AM	10:25AM		4
CHEM	H359D				Topics in Inorganic Chemistry The specific content of the course varies, depending on faculty and student interests. The course will focus on a specific topic within the realm of Inorganic Chemistry; example topics include electrochemical technology, organometallic catalysis, main group chemistry, and f-block elements. The Spring 2022 topic is organometallic catalysis, and the course will introduce fundamental concepts in organometallic chemistry including different types of organometallic reactions, catalyst development and applications in organic synthesis. Prerequisite(s): CHEM 225 and CHEM 320 Attributes: C: Physical and Natural Processes Natural Science					
		2538	001	.5	TBA Department staff	T Th	11:30AM	12:55PM		3
CHEM	H359E				Topics in Inorganic Chemistry The specific content of the course varies, depending on faculty and student interests. The course will focus on a specific topic within the realm of Inorganic Chemistry; example topics include electrochemical technology, organometallic catalysis, main group chemistry, and f-block elements. The Spring 2022 topic is organometallic catalysis, and the course will introduce fundamental concepts in organometallic chemistry including different types of organometallic reactions, catalyst development and applications in organic synthesis. Prerequisite(s): CHEM 225 and CHEM 320 Attributes: C: Physical and Natural Processes Natural Science					
		2524	001	.5	TBA Department staff	T Th	11:30AM	12:55PM		1
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					
		1381	001	1.0	Casey H Londergan					3
		2525	002	1.0	Samuel Shepard					1
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					
		1395	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					
		1382	001	1.0	Theresa D. Gaines					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					
		1383	001	1.0	Robert C. Scarrow					1

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
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 <i>Attributes: Natural Science</i>								
		1384	001	1.0	Louise Charkoudian					3
		1594	002	1.0	Leah Seebald					3
CHEM	H368A	Senior Research Tutorial in Environmental Chemistry 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 <i>Attributes: Natural Science</i>								
		1385	001	1.0	Helen K. White					4
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 <i>Attributes: Natural Science</i>								
		1386	001	1.0	Alexander Norquist					4
CHEM	H380A	Independent Research in Chemistry This course is designed for chemistry majors who want to pursue a non-experimental research experience. Students will work closely with a faculty member on a topic in the current chemical literature to prepare a thesis paper. Prerequisite(s): CHEM 221b and CHEM 304a <i>Attributes: Natural Science</i>								
		1539	001	1.0	TBA Department staff					1
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).								
		1380	001	.5	Casey H Londergan	F	2:30PM	3:55PM	HLS109	30
CHEM	H480A	Independent Study Independent Study <i>Attributes: Natural Science</i>								
		1387	001	1.0	TBA Department staff					0
CHEM	H480F	Independent Study Enrollment Limit: 5 <i>Attributes: Natural Science</i>								
		1368	001	.5	TBA Department staff					0
CHEM	H480J	Independent Study								
		2531	001	.5	TBA Department staff					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								

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					Enrollment Limit: 32 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: C: Physical and Natural Processes Natural Science Quantitative					
	1199	001	.0		Yuxin Zhou	M W	11:30AM	12:55PM	HLS204	17
	1528	002	.0		Christopher Braun	M W	2:30PM	3:55PM	HLS204	15
	1196	00A	1.0		Suzanne Lindell	F	9:30AM	10:25AM	HLS110	7
	1197	00B	1.0		Suzanne Lindell	F	10:30AM	11:25AM	HLS110	11
	1198	00C	1.0		Suzanne Lindell	F	11:30AM	12:25PM	HLS110	10
	1542	00D	1.0		Suzanne Lindell	F	1:30PM	2:25PM	HLS110	1
	1543	00E	1.0		Suzanne Lindell	F	2:30PM	3:25PM	HLS110	3
CMSC	H106A	Introduction to Data Structures An introduction to the fundamental data structures of computer science: strings, lists, stacks, queues, trees, BSTs, graphs, sets and their accompanying algorithms. Principles of algorithmic analysis and object reasoning and design will be introduced using mathematical techniques for the notions of both complexity and correctness. More practical issues, such as memory management and hashing, will also be covered. The programming language used to illustrate and implement these concepts will be able to support functional, imperative and object-oriented approaches. Emphasis will be placed on recursive thinking and its connection to iteration. Students must attend a one-hour weekly lab. Labs will be sectioned by course professor. Prerequisite(s): CMSC 105 (or 110 or 113 at Bryn Mawr) or instructor consent; may not be taken by students who have taken any one of HC: CMSC 104, CMSC 107; BMC: CMSC 206, CMSC 151, except by instructor consent Enrollment Limit: 32 Lottery Preference(s): Sophomores then first-years, then Scientific Computing concentrators, then Computer Science minors and concentrators Attributes: C: Physical and Natural Processes Natural Science Quantitative								
	2896	001	.0		Christopher Braun	T Th	1:00PM	2:25PM	HLS204	1
	2894	00A	1.0		Christopher Braun	W	12:30PM	1:25PM	HLS110	0
	2895	00B	1.0		Christopher Braun	Th	11:30AM	12:25PM	HLS110	1
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 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 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: 32 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: C: Physical and Natural Processes Natural Science Quantitative								
	1194	001	.0		David Wonnacott	M W	11:30AM	12:55PM	SHA113	18
	1192	00A	1.0		David Wonnacott	Th	1:00PM	1:55PM	HLS110	5
	1193	00B	1.0		Suzanne Lindell	Th	2:00PM	2:55PM	HLS110	5

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Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1195	00C	1.0	Suzanne Lindell	Th	3:00PM	3:55PM	HLS110	8
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: 24										
Lottery Preference(s): 8 spaces reserved for incoming first-year students, 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: C: Physical and Natural Processes Natural Science Quantitative										
		1798	001	1.0	Yuxin Zhou	M W	10:00AM	11:25AM		16
		2685	00A	.0	Yuxin Zhou	F	10:00AM	11:25AM		16
CMSC	H251A	Principles of Computing Systems								
What actually happens when you hit "run", after writing your program? This course introduces the elements of hardware and language/O.S. software that execute a program, serving as a foundation for later work in these areas, and providing insights into computing efficiency that may be important to a wide range of programmers. Includes weekly lab exercises, on principles covered in lecture, and details from lecture and self-teaching (according to resource-use principles presented in the course).										
Pre-requisite(s): Both CMSC H106, H107, B151, or B206; and CMSC 231 (the latter as co-requisite)										
Lottery Preference: In fall: Senior CS majors, Junior CS majors, Sophomores, other Seniors, other Juniors (with 4 seats reserved for frosh) In spring: Senior CS majors, Frosh and Sophomores, Junior CS majors, other Seniors, other Juniors										
Enrollment Limit: 25										
Attributes: C: Physical and Natural Processes Natural Science										
		1619	001	.0	John P. Dougherty	T Th	11:30AM	12:55PM	SHA113	7
		1617	00A	1.0	John P. Dougherty	W	1:30PM	2:25PM	HLS110	7
		1618	00B	1.0	John P. Dougherty	W	2:30PM	3:25PM	HLS110	0
CMSC	H257A	Programming Languages and Security								
An introduction to the role programming languages can play in checking important properties of software, including those vital to security.										
Pre-requisite(s): CMSC 231, and either CMSC 106 or 151										
Lottery Preference: 1. Senior CS majors 2. Junior CS majors 3. Sophomores 4. Computer Science minors										
Enrollment Limit: 25.00										
Attributes: C: Physical and Natural Processes Natural Science										
		2839	001	.0	Pritam Choudhury					0
		2837	00A	1.0	Pritam Choudhury					0
		2838	00B	1.0	Pritam Choudhury					0
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: C: Physical and Natural Processes Natural Science										
		1209	001	.0	Sara Mathieson	T Th	10:00AM	11:25AM	HLS204	24

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1207	00A	1.0	Sara Mathieson	T	1:00PM	1:55PM	HLS110	12
		1208	00B	1.0	Sara Mathieson	T	2:00PM	2:55PM	HLS110	12
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 <i>Attributes: C: Physical and Natural Processes Natural Science Quantitative</i>								
		1204	001	.0	Steven Lindell	M W	10:00AM	11:25AM	SHA410	27
		1203	00A	1.0	Steven Lindell	F	10:00AM	11:25AM		27
CMSC	H394A	Advanced Topics in Theoretical Computer Science: Math Foundations of Machine Learning An introduction to the mathematical principles behind modern machine learning algorithms. Covers advanced topics in linear algebra, vector calculus, probability theory, and optimization, with a particular focus on their relevance to machine learning tasks. We will also discuss various practical applications. Crosslisted: Mathematics, Computer Science Prerequisite(s): MATH 121 and 215, or instructor permission Enrollment Limit: 15 <i>Attributes: C: Physical and Natural Processes Natural Science</i>								
		2577	001	1.0	Mehdi Abdi Anbouhi	M W F	9:30AM	10:25AM		3
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 <i>Attributes: Natural Science</i>								
		1191	001	1.0	Steven Lindell	F	1:30PM	3:55PM	FDR220	23
CMSC	H480A	Independent Study Independent study, supervised by a member of the Computer Science department. Prerequisite(s): Instructor consent								
		1200	001	1.0						0
CMSC	H480F	Independent Study Independent study, supervised by a member of the Computer Science department. Prerequisite(s): Instructor consent								
		1201	001	.5						0
		1202	002	.5						0
		1205	003	.5						0
CNSE	H201A	Advanced Chinese: Food and Food Production 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 <i>Attributes: A: Meaning, Interpretation (Texts) East Asian Languages and Cultures Humanities</i>								
		1401	001	1.0	Shizhe Huang	T Th	10:00AM	11:25AM	LUT211	5
CNSE	H480A	Independent Study								

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		2723	001	1.0	Shizhe Huang					2
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 visibility 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) Humanities Visual Studies								
		1507	001	1.0	John Hancock Muse	T Th	10:00AM	11:25AM	VCAM201	2
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: A: Meaning, Interpretation (Texts) Humanities								
		2590	001	1.0	David Sedley	T Th	2:30PM	3:55PM	HLL106	5
COML	H244A	Our Americas: Imagining the Hemisphere This course focuses on theorists of culture and society across the Americas, as well as major genres of nineteenth- and twentieth-century literature, considering interventions from Caribbean, Latin American, and North American figures. Reading novels, memoir, travel writing and poetry, we'll theorize the structures of hemispheric life: how did race and the color line, slavery and the plantation, settler colonialism, labor and migration, travel and transit, and war and imperialism create a shared hemispheric history? Crosslisted: PEAC, COML Pre-requisite(s): One course involving literary analysis. Enrollment Limit: 20.00 Attributes: A: Meaning, Interpretation (Texts) Humanities Peace, Justice and Human Rights								
		2630	001	1.0	Dennis Hogan	T Th	1:00PM	2:25PM	UN111	2
COML	H245A	Performance, Literature and the Archive The 'archive,' as both an institutional and performance practice and a theoretical concept, has been one of the most studied sites in performance and literary studies. The hegemonic, patriarchal institution of the archive that constructs and perpetuates the canon and the master narratives of history while, marginalizing, silencing, and erasing the subaltern and the subcultural has been contested by the poststructuralist philosophers and critical theorists of the late 20 th and early 21 st century. A new concept of the archive transpired in the interdisciplinary fields of postcolonial, gender, cultural, and performance studies, one that is more utopian and more inclusive and is not limited by dominant repressive power structures and ideologies. This archive does not merely revisit the past to excavate the eradicated traces and silenced voices, but also, perhaps more importantly, opens the potential for a formerly unimaginable, and yet-to-be-imagined future. Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies Humanities Visual Studies								
		2713	001	1.0	Lindsay V. Reckson	T	1:30PM	3:55PM		1
COML	H254A	Matters of Taste: France and its Culinary Culture In 2010, "the gastronomic meal of the French" was inscribed on the UNESCO Intangible Cultural Heritage of Humanity, with particular mention to "togetherness, the pleasure of taste, and the balance between human beings and the products of nature." In addition, UNESCO noted the importance in choosing the right dish or recipe, how products are procured, which flavors marry well, the art of the table setting, and the specific structure of the meal. Why is "food" so central to French culture? Culinary culture is constructed from a rich fabric of narratives that sustain its very practice. What are those stories and how are they shared? In this course, we will explore the discourse, indeed the language, that led to the								

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					emergence of French cuisine and the rise of gastronomy in the nineteenth century. (We will even consider why the French don't like doggie bags... anymore.) Materials for consideration include literature, cookbooks, menus, film, television, sociological and historical text, as well as topics of contemporary political and social debate. Crosslisted: COML. Pre-requisite(s): First-year writing course Attributes: A: Meaning, Interpretation (Texts) Humanities 2660 001 1.0 Kathryn Adair Corbin	T Th	1:00PM	2:25PM	ST016	5
COML	H262A				European Film This course will explore what role film plays in the conceptualization of the European Union. After a brief historical overview, we will familiarize ourselves with a variety of important European film movements after 1945. Our class discussion will cover important European film movements such as German Expressionist Film, Italian Neorealism, French New Wave, Czech New Wave, New German Cinema, and Dogma 95. In addition, we will be watching films from Poland, the Netherlands, and the Balkans. Towards the end of the semester we will discuss how the accelerated integration of the European Union since the 1990s has affected film production within the European Union and what aesthetic, and political ideas shape contemporary European films. Furthermore, this class also aims to highlight transnational aspects of European film in particular in light of the recent European refugee crisis. This course is taught in English with an extra-session in German. (Taught in English with an extra session in German.) Crosslisted: Comparative Literature, German Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies Humanities 1869 001 1.0 Imke Brust	M W	11:30AM	12:55PM		3
COML	H312A				Adv Topics French Literature: L'Amérique' vue du monde francophone: Entre admiration et mépris Georges Duhamel, one of the authors on the program, called the United States of America "Outre-Occident". Obviously, the term is semantically loaded and connotes above all a certain exoticism, a difference. In this course, we will study and interrogate representations of "America" by French-speaking authors: what are the dominant features of these depictions? What are the ideas that underpin them? The tradition of portraying "America" is an old and very rich one, at least since the publication of On Democracy in America, de Tocqueville's famous study. Consequently, we will limit ourselves mostly to authors of the 20th and 21st centuries: Baudrillard, Beauvoir, Dalember, Duhamel, Godbout, Hergé, Labro and Sartre. Crosslisted: FREN and COML Attributes: A: Meaning, Interpretation (Texts) Africana Studies Humanities 1158 001 1.0 Koffi Anyinefa	M	1:30PM	3:55PM		0
COML	H318A				The Western Dramatic Tradition An investigation of Western drama through close study of major representative plays from Aeschylus and Sophocles to Beckett and Shange. Differing notions of the dramatic event, from classical to modern and "post-modern" theaters, will be examined in relation to evolving ideas of character, consciousness, destiny, social structure, linguistic power, and theatricality itself. Emphasis placed on both thematic and structural problems of "play" and on the relation of the text to consequences of performance (e.g., acting, stagecraft, and audience response). Prerequisite: 1 course in English, Comparative Literature, or Theater Studies.. Enrollment Limit: 15 Lottery Lottery Preference English Majors, Comp Lit majors, Seniors, Juniors, Sophomores, First year students. Attributes: Humanities 2326 001 1.0 Kimberly Benston	M W	1:00PM	2:25PM	LUT230	2
COML	H480A				Independent Study 1549 001 1.0					0
CSTS	H211A				What Does Ancient Rome Taste Like? We will seek to understand why Roman eating was, and still is, important for our understanding an ancient culture and humanity's relationship with its food. Emphasis will be placed on the interpretation of Roman literature in English					

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translation as well as the use of primary and secondary sources to craft an academic argument. Grading will be based on class participation, reaction journals, two short papers, and a final paper or creative project. Lottery Preference: Classics Majors & Minors Enrollment Limit: 25.00 Attributes: A: <i>Meaning, Interpretation (Texts)</i> B: <i>Analysis of the Social World</i> Humanities										
		2729	001	1.0	Robert S Santucci	M W	1:00PM	2:25PM		25
CSTS	H460F	Teaching Assistant								
		2534	001	.5	Bret Mulligan					0
EALC	H200A	Major Seminar: Approaches to the Study of East Asian Cultures This course is a writing intensive course for EALC majors and minors to some foundational ideas and concepts in the study of East Asia. Beginning with close readings of primary source texts in translation, students are introduced to the philosophy and culture of China, and its subsequent transmission and adaptation across the vast geographical and cultural area that is commonly referred to as "East Asia." Students will gain familiarity with methods in this interdisciplinary field and develop skills in the practice of close critical analysis, bibliography, and the formulation of a research topic. Required of EALC majors and minors. Majors should take this course before the senior year. This is a one-term course offered in the Fall and the Spring. The Fall term focuses more on development and transformation of Chinese thought and systems in Japan, and the Spring term on the elaboration of these key themes in a Chinese context. Prerequisite: One year of Chinese or Japanese. Attributes: B: <i>Analysis of the Social World</i> Humanities Social Science								
		2591	001	1.0	Erin Schoneveld	W	1:30PM	3:55PM	VCAM201	7
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: <i>Meaning, Interpretation (Texts)</i> B: <i>Analysis of the Social World</i> Humanities Visual Studies								
		2657	001	1.0	Hank Glassman	M W	1:00PM	2:25PM	GST101	27
EALC	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 Attributes: A: <i>Meaning, Interpretation (Texts)</i> B: <i>Analysis of the Social World</i> Humanities Visual Studies A: <i>Meaning, Interpretation (Texts)</i> B: <i>Analysis of the Social World</i>								
		2593	001	1.0	Erin Schoneveld	T Th	1:00PM	2:25PM	VCAM201	9
		2593	001	1.0	Erin Schoneveld	W	7:30PM	9:55PM	VCAM001	9
EALC	H231A	Pre-modern Japanese Literature This is a course introducing classical and medieval Japanese literature, and also related performance traditions. No background in either East Asian culture or in the study of literature is required; all works will be read in English translation. (Advanced Japanese language students are invited to speak with the instructor about arranging to read some of the works in the original or in translation into modern Japanese.) The course is a chronological survey of Japanese literature from the tenth century to the fifteenth. It will focus on well-known texts like the Tale of Genji and the Pillow Book, both written by women, and the ballad-form Tale of the Heike. Attributes: A: <i>Meaning, Interpretation (Texts)</i> B: <i>Analysis of the Social World</i> Humanities Visual Studies								
		2592	001	1.0	Hank Glassman	T Th	2:30PM	3:55PM	VCAM201	15
EALC	H297A	Social Protest in Modern China								

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<p>Since 1949, Chinese state policies have engendered diverse modes of resistance, and today, popular uprisings continue to challenge assumptions about passivity under authoritarianism. This course reads contemporary Chinese history through the lens of social protest. Major events we will examine include: contestations of rule in the early People's Republic; the Cultural Revolution; the 1989 protests in Tiananmen Square; labor and rural resistance; the 2019-2020 demonstrations in Hong Kong; and most recently, the "A4 Revolution."</p> <p>Crosslisted: EALC.</p> <p>Enrollment Limit: 25.00</p> <p>Attributes: B: Analysis of the Social World Social Science</p>										
	2645	001	1.0	Ruodi Duan		T Th	11:30AM	12:55PM	HLL107	7
ECON	H105A	Introduction to Economics								
<p>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.</p> <p>Attributes: B: Analysis of the Social World Social Science</p>										
	1328	001	1.0	Timothy Lambie-Hanson		M W	1:00PM	2:25PM	CHS104	10
	1329	002	1.0	David M. Owens		T Th	8:30AM	9:55AM		17
	1560	003	1.0	Alberto Arredondo-Chavez		T Th	2:30PM	3:55PM	CHS104	5
ECON	H201A	Analytical Methods for Economics								
<p>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.</p> <p>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</p> <p>Attributes: B: Analysis of the Social World C: Physical and Natural Processes Quantitative Social Science</p>										
	1344	001	1.0	David M. Owens		M W	10:00AM	11:25AM	FDR220	20
ECON	H203A	Statistical Methods in Economics								
<p>Foundations of statistical inference and data analysis. Three class hours and two lab hours.</p> <p>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.</p> <p>Attributes: B: Analysis of the Social World Quantitative Social Science</p>										
	1338	001	1.0	Richard J. Ball		M W	1:00PM	2:25PM	FDR220	25
	1345	00A	.0	Richard J. Ball		T	7:30PM	9:55PM	FDR220	25
ECON	H236A	Introduction to Behavioral Economics								
<p>This course explores how observations of human psychology has influenced our understanding of economic thinking and decision-making. Students will reinforce and expand their understanding of classical economic models, and learn to work with new models incorporating insights from the field of psychology. Course assignments include problem sets, as well as work with real world data sets and academic writing.</p> <p>Crosslisted: PSYC.</p> <p>Pre-requisite(s): Economics 104 or 105, or equivalent</p> <p>Enrollment Limit: 25</p> <p>Attributes: B: Analysis of the Social World Social Science</p>										
	2545	001	1.0	David M. Owens		M W	11:30AM	12:55PM	FDR220	21
ECON	H298A	Impact Investing								
<p>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</p>										

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<p>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.</p> <p>Crosslisted: Economics, Independent College Programs, PJHR</p> <p>Prerequisite(s): ECON 104 or 105 or 106</p> <p>Enrollment Limit: 16</p> <p>Attributes: B: Analysis of the Social World Peace, Justice and Human Rights Social Science B: Analysis of the Social World Peace, Justice and Human Rights Social Science</p>										
	2431	001	1.0	Shannon B. Mudd		F	2:30PM	3:25PM	UN114	15
	2431	001	1.0	Shannon B. Mudd		M W	2:30PM	3:55PM	UN114	15
ECON	H300A	Intermediate Microeconomic Analysis								
<p>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.</p> <p>Prerequisite(s): ECON 201</p> <p>Attributes: B: Analysis of the Social World Social Science</p>										
	2890	001	1.0	Giridhar Parameswaran	Asynchronous lecture					16
	2891	001A	.0	Giridhar Parameswaran		T	1:00PM	2:25PM	STO102	16
	2892	00A	.0	David Wonnacott		Th	2:00PM	2:55PM	STO4	12
	2893	00B	.0	David Wonnacott		Th	3:00PM	3:55PM	STO4	4
ECON	H304A	Introduction to Econometrics								
<p>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.</p> <p>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</p> <p>Attributes: C: Physical and Natural Processes Social Science</p>										
	1330	001	1.0	Timothy Lambie-Hanson		M W	10:00AM	11:25AM	CHS104	31
ECON	H324A	Advanced Econometrics								
<p>This course covers advanced topics in theoretical and applied econometrics. The first half focuses on time series econometrics with applications to macroeconomic and financial analysis. The second half focuses on structural estimation and Bayesian statistics. The course emphasizes the role of econometrics in causal inference and forecasting.</p> <p>Prerequisite(s): ECON 304 or MATH 218 or MATH/STAT 286</p> <p>Attributes: B: Analysis of the Social World C: Physical and Natural Processes Social Science</p>										
	2449	001	1.0	Giridhar Parameswaran		T	10:00AM	12:55PM	STO16	18
ECON	H378A	Junior Research Seminar: Sports as an Economics Laboratory								
<p>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.</p> <p>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</p> <p>Enrollment Limit: 15</p> <p>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World C: Physical and Natural Processes Social Science</p>										
	2830	001	1.0	Anne Preston		M W	1:00PM	2:25PM		0

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ECON	H384A	Junior Research Seminar: Labor Economics This seminar examines various aspects of labor markets, particularly focusing on empirical research. We will study critical topics relevant to ongoing policy debates such as the minimum wage, discrimination, income inequality, immigration, unemployment insurance, and more. We will also examine the growing role of technological change and how this can be expected to affect labor markets in the future. Pre-requisite(s): Econ 300, Econ 304-corequisite Lottery Preference: Majors, Seniors and then juniors Enrollment Limit: 15 <i>Attributes: B: Analysis of the Social World C: Physical and Natural Processes Social Science</i>								
		2778	001	1.0	Wei Qian	M W	11:30AM	12:55PM		0
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) <i>Attributes: Social Science</i>								
		2444	001	1.0	Anne Preston					28
		2445	00A	.0	Anne Preston					28
ECON	H396B	Research Seminar Must be a senior Economics major. Prerequisite(s): ECON 304; an ECON 37X Jr. Research Seminar; ECON 396A. <i>Attributes: B: Analysis of the Social World Social Science</i>								
		1681	001	1.0	Anne Preston					3
ECON	H480A	Independent Study								
		1336	001	1.0						0
ECON	H480I	Independent Study								
		1351	001	.5						0
EDUC	H200A	Community Learning Collaborative: Practicing Partnership 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 <i>Attributes: B: Analysis of the Social World Child and Family Studies Social Science</i>								
		1251	001	1.0	Alison Cook-Sather	M	7:30PM	9:55PM	STO104	22
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, Education Enrollment Limit: 25 Lottery Preferences: Haverford Sociology majors, Haverford Sociology minors, Education Studies majors, Education Studies minors. <i>Attributes: B: Analysis of the Social World Social Science</i>								
		1936	001	1.0	Matthew McKeever	M	1:30PM	3:55PM	HLL107	13
EDUC	H275A	Emergent Multilingual Learners in U.S. Schools								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
<p>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.</p> <p>Prerequisite(s): EDUC 200 or instructor consent</p> <p>Lottery Preference(s): 1. EDUC majors and Certification students; 2. EDUC minors; 3. then by seniority</p> <p>Attributes: B: Analysis of the Social World Child and Family Studies Peace, Justice and Human Rights Social Science</p>										
		1252	001	1.0	Kelly Gavin Zuckerman	M W	10:00AM	11:25AM		18
EDUC	H308A	<p>Inquiries into Black Study, Language Justice, and Education</p> <p>Growing out of the Lagim Tehi Tuma/"Thinking Together" program (LTT), the course will explore the implications for education in realizing the significance of global Black liberation and Black Study/ies—particularly in relation to questions of the suppression and sustenance of language diversity and with a focus, as well, on Pan-Africanism—by engaging with one particular community as a touchstone for learning from and forwarding culturally sustaining knowledge. Prerequisites: Two courses, at least one in Education, with the second in Africana Studies, Linguistics, Sociology, or Anthropology; or permission of the instructor.</p> <p>Attributes: Africana Studies B: Analysis of the Social World Education Praxis Program Social Science</p>								
		2589	001	1.0	Alice Lesnick	F	1:30PM	3:55PM		3
ENGL	H113A	<p>Playing in the Dark: Freedom, Slavery & the Haunting of US Literature</p> <p>According to Toni Morrison, the relentless valorization of freedom in a nation built upon the enslavement of people of African descent created a literature full of ghosts and other spectral presences. This course looks at how horror, the Gothic, and the supernatural structure U. S. narrative (mostly) fiction's engagement with race and history, focusing on how literature disorients our understanding of the "real" when that supposed real conceals histories of violence, terror, revenge, and subversion.</p> <p>Enrollment Limit: 20.00</p> <p>Attributes: A: Meaning, Interpretation (Texts) Africana Studies Humanities</p>								
		2632	001	1.0	Gustavus T. Stadler	T Th	1:00PM	2:25PM	VCAM102	12
ENGL	H115A	<p>Black Memoir and Mythography: an Introduction</p> <p>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.</p> <p>Pre-requisite(s): First year writing seminar</p> <p>Enrollment Limit: 25</p> <p>Lottery Preference: Sophomores, English majors, First year students, Africana concentrators</p> <p>Attributes: A: Meaning, Interpretation (Texts) Africana Studies Humanities</p>								
		2317	001	1.0	Asali Solomon	T Th	11:30AM	12:55PM	HLL106	10
ENGL	H201A	<p>Chaucer: Canterbury Tales</p> <p>Course devoted to close reading of Chaucer's Canterbury Tales; secondary readings include critical approaches and brief excerpts from other medieval sources.</p> <p>Attributes: Humanities Visual Studies</p>								
		2339	001	1.0	Danielle Allor	M W	2:30PM	3:55PM		13
ENGL	H238A	<p>Creative Writing: Nonfiction</p> <p>In this workshop-centered class, students will learn to generate and revise works of prose nonfiction such as memoir, long-form reporting, intellectual essays and reviews.</p> <p>Enrollment Limit: 15</p> <p>Lottery Preference(s): All interested students should register and submit a 5-10pp prose writing sample to asolomon@haverford.edu.</p> <p>Attributes: A: Creative Expression Humanities</p>								
		2341	001	1.0	Thomas Devaney	F	1:30PM	3:55PM	WDS	13
ENGL	H245A	<p>Performance, Literature and the Archive</p>								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
<p>The 'archive,' as both an institutional and performance practice and a theoretical concept, has been one of the most studied sites in performance and literary studies. The hegemonic, patriarchal institution of the archive that constructs and perpetuates the canon and the master narratives of history while, marginalizing, silencing, and erasing the subaltern and the subcultural has been contested by the poststructuralist philosophers and critical theorists of the late 20 th and early 21 st century. A new concept of the archive transpired in the interdisciplinary fields of postcolonial, gender, cultural, and performance studies, one that is more utopian and more inclusive and is not limited by dominant repressive power structures and ideologies. This archive does not merely revisit the past to excavate the eradicated traces and silenced voices, but also, perhaps more importantly, opens the potential for a formerly unimaginable, and yet-to-be-imagined future.</p> <p><i>Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies Humanities Visual Studies</i></p>										
	2712	001	1.0	Lindsay V. Reckson		T	1:30PM	3:55PM		14
ENGL	H249A	<p>Introduction to Asian American Literature</p> <p>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?</p> <p>Crosslisted: ENGL.</p> <p>Pre-requisite(s): None</p> <p><i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities</i></p>								
	1533	001	1.0	Elizabeth Kim		T Th	1:00PM	2:25PM	HLL106	15
ENGL	H253A	<p>English Poetry from Tennyson to Eliot</p> <p>A study of Tennyson, Christina Rossetti, Browning, Hopkins, Hardy, Owen, and Eliot, from "In Memoriam" (1850) to "Little Gidding" (1942). Poetry will be approached via the visual arts.</p> <p><i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i></p>								
	2342	001	1.0	C. Stephen Finley		T	7:30PM	9:55PM		12
ENGL	H258A	<p>Desire and Domestic Fiction: The Development of the Novel in the 19th c.</p> <p>This course is designed as an introduction to the novel and to narrative theory in a trajectory loosely inscribed from the late 18th to the mid19th century, beginning with Richardson's Pamela and culminating in George Eliot's extraordinary and exemplary Middlemarch. These several novels propose both an epistemology—what we know—as well as an affective sensibility, or a structure of feeling, and we might question their purpose: to amuse, to entertain, certainly, but to educate, to compel, to convince us of a certain understanding of the world. As well, the course will look at the purchase of contemporary critical investments upon the act of reading itself or how reading is inflected through different models of critical and theoretical discourse: how narrative economies shape and determine the nature of our experience or what we can know of our experience; how narrative determines a subject "self" and how these selves are then transected by race, gender, class, and other social and political determinants; how narratives manage the less obvious and sublimated worlds of desire and the body's disruptions; how narratives negotiate the grotesque, the spectacular, and the sensational; and finally, how these variously constituted needs and desires become constructions of "textual knowledge".</p> <p><i>Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies Humanities</i></p>								
	2343	001	1.0	Debora Sherman		T Th	2:30PM	3:55PM	WDS	10
ENGL	H260A	<p>Topics in American Literature: Comics and Other Graphic Narrative</p> <p>Enrollment Limit: 30</p> <p><i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i></p>								
	2886	001	1.0	Joshua Kopin		T Th	11:30AM	12:55PM		0
ENGL	H275A	<p>British Immigrant Writing</p> <p>The starting premise of this course is that the English language and its literary traditions hybridize into rich and strange forms when thrown into contact with regional cultures, myths, and aesthetic practices in the many parts of the world that were once British colonies. This course will trace the English literary tradition in South Asia beginning with responses to the colonial encounter, moving on to the role played by literature during decolonization, and ending with the ways poetry, novels, and plays engage the challenges of nationalism and, more recently, globalization. Writers we read will include Anita</p>								

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Desai, Salman Rushdie, Rokeya Hossain, Michael Ondaatje, Lalithambika Antherjanam, Nessim Ezekiel, Kamila Shamsie, and Amitav Ghosh. <i>Attributes: Humanities</i>										
		2321	001	1.0	Alexander Millen	M W	10:00AM	11:25AM		7
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 <i>Attributes: A: Creative Expression Creative Writing Humanities</i>								
		1413	001	1.0	Elizabeth Kim	F	11:00AM	1:25PM	WDS	15
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 <i>Attributes: A: Creative Expression Humanities</i>								
		1418	001	1.0	Asali Solomon	W	1:30PM	3:55PM	WDS	19
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: 15 <i>Attributes: Humanities</i>								
		1419	001	1.0	Kimberly Benston	T Th	10:00AM	11:25AM	WDS	16
		2775	002	1.0	Lindsay V. Reckson	T Th	10:00AM	11:25AM		15
ENGL	H298J	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. <i>Attributes: Humanities</i>								
		1414	001	.5	Kimberly Benston					9
		2776	002	.5	Lindsay V. Reckson					0
ENGL	H305A	The Premodern Life of Trees: Interdisciplinarity and Literary Study of the Past This course seeks to examine premodern literary representations of the natural world alongside historical, scientific, and experiential ways of understanding the environment. Our case study will be the figure of the tree. In collaboration with the Haverford College Arboretum, we will study literature from the premodern world that depicts trees, forests, and gardens while cultivating botanical, artistic, and historical knowledge about the trees of Haverford. Pre-requisite(s): One English course or ENVS 101, 202, or 203 Lottery Preference: English majors Enrollment Limit: 15.00 <i>Attributes: A: Meaning, Interpretation (Texts) Environmental Studies Humanities</i>								
		2633	001	1.0	Danielle Allor	M W	11:30AM	12:55PM		14
ENGL	H318A	The Western Dramatic Tradition An investigation of Western drama through close study of major representative plays from Aeschylus and Sophocles to Beckett and Shange. Differing notions of the dramatic event, from classical to modern and "post-modern" theaters, will be examined								

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					in relation to evolving ideas of character, consciousness, destiny, social structure, linguistic power, and theatricality itself. Emphasis placed on both thematic and structural problems of "play" and on the relation of the text to consequences of performance (e.g., acting, stagecraft, and audience response). Prerequisite: 1 course in English, Comparative Literature, or Theater Studies.. Enrollment Limit: 15 Lottery Lottery Preference English Majors,Comp Lit majors,Seniors,Juniors, Sophomores,First year students. Attributes: Humanities					
	2325	001	1.0	Kimberly Benston		M W	1:00PM	2:25PM	LUT230	12
ENGL	H371A	Sound Studies: Modernity and Synthesis								
					The 20th century marks a time of rapid transformation in Anglo-American ideas about sound, music, listening, and communication. Technologies that electronically store, transmit, and generate sonic information have caused a fundamental shift in how and why we listen. In this course we will immerse ourselves in the technologies and ideas that continue to shape our ongoing relationship with the auditory and each other. Students will compose new works for electronic hardware systems while investigating related topics in sound and critical listening. We will learn the basics of modular synthesis and gain inspiration from some of the foremost thinkers on the subject of the auditory. No prior experience with music-making is necessary, but students should be prepared to perform and show work on a regular basis. Prerequisite(s): Two 200-level English courses or instructor consent Enrollment Limit: 15 Attributes: A: Meaning, Interpretation (Texts) Humanities					
	2344	001	1.0	Matthew O'Hare		Th	1:30PM	3:55PM		8
ENGL	H376A	Literature and Politics of South African Apartheid								
					This course explores the history and historiography of South African apartheid from its inception in 1948 to its democratic overthrow in 1994. We will consider the interplay between complex definitions of race, gender, nation and difference in novels, plays, and poetry written during the apartheid years. We will also discuss the tension between an ethics and aesthetics of literary production in a time of political oppression. What would it mean for one to write an apolitical text in a cultural space rife with racial and social tensions? Authors will include Nadine Gordimer, Alan Paton, J.M.Coetzee, Bessie Head, and Alex La Guma. Crosslisted with Africana Studies. Enrollment Limit: 15 Lottery Preferences: 1. English majors, 2. Africana Studies concentrators, then all others by class year. Attributes: Africana Studies Humanities					
	2641	001	1.0	Laura McGrane		W	1:30PM	3:55PM	UN111	8
ENGL	H399F	Senior Conference								
					Senior Thesis work with advisor. Prerequisite(s): Limited to senior English majors Attributes: Humanities					
	1422	001	.5	TBA Department staff						2
	1423	00A	.0	Kimberly Benston						3
	1424	00B	.0	Elizabeth Kim						0
	1425	00C	.0	Laura McGrane						0
	1426	00D	.0	Lindsay V. Reckson						6
	2328	00E	.5	Asali Solomon						3
	2329	00F	.5	Gustavus T. Stadler						4
ENVS	H204A	Place, People and Collaborative Research in Environmental Studies								
					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					

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Lottery Preference(s): Senior ENVS majors, then Junior ENVS Majors, then Sophomores, ENVS minors, everyone else Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Environmental Studies Praxis Program Social Science										
	2649	001	1.0	Jonathan Wilson		T	1:30PM	3:55PM	ESTW309	15
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 Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities Visual Studies A: Meaning, Interpretation (Texts) B: Analysis of the Social World								
	2702	001	1.0	Erin Schoneveld		T Th	1:00PM	2:25PM	VCAM201	4
	2702	001	1.0	Erin Schoneveld	Film Screening	W	7:30PM	9:55PM	VCAM001	4
ENVS	H307A	Introduction to Fisheries Science Fisheries science is the study of fish in the context of harvest. This course will provide an introduction to some of the concepts and quantitative methods and skills involved in fisheries science. Prerequisite(s): ENVS 101; and at least one of ENVS 201-204, or permission of the instructor. Familiarity and comfort with general biology and algebra. Enrollment Limit: 15 Lottery Preference(s): ENVS majors, then sophomores, then ENVS minors. Attributes: C: Physical and Natural Processes Natural Science								
	2699	001	1.0	Talia Young		T Th	10:00AM	11:25AM	STO104	7
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								
	2700	001	1.0	Talia Young		T Th	11:30AM	12:55PM	STO104	12
ENVS	H315A	Environmental & Social Data Analysis - Introduction to GIS Maps are a powerful way to visualize and gain a better understanding of our cultural and environmental landscape. This course explores the many ways of collecting, analyzing, and presenting spatial information using Geographic Information Systems. This is a skills-based methodology course that utilizes the powerful ArcGIS software. Historical and current issues related to the data sets used in class will be discussed. Pre-requisite(s): ENVS 101 and ENVS 201; or, ENVS 101 and permission of instructor Lottery Preference: ENVS seniors, followed by ENVS juniors, followed by ENVS minors. Enrollment Limit: 15.00 Attributes: C: Physical and Natural Processes Natural Science								
	2724	001	1.0	David Hunt Backus		T Th	10:00AM	11:25AM		11
ENVS	H328A	Botany This course is a multidisciplinary approach to the biology of plants through their development, physiology, anatomy, and growth and their consequent effects on human society. Course topics include plant biology, anatomy, diversity, morphology, physiology, and ecology, followed by case studies of plants, from cacao to apples. Pre-requisite(s): ENVS 101 and ENVS 201 or ENVS 101 and 200-level ENVS, GEO, BIO or ENVS 101 and permission of instructor. Lottery Preference: Senior ENVS majors, junior ENVS majors, senior ENVS minors, junior ENVS minors, then seniors, followed by juniors, followed by all other students. If this course is tied to a 360 or study tour, that section will be closed to further enrollment. Enrollment Limit: 15								

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<i>Attributes: C: Physical and Natural Processes Environmental Studies Natural Science</i> 1676 001 1.0 Jonathan Wilson M W 10:00AM 11:25AM ESTW115 8										
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 <i>Attributes: Natural Science</i> 2701 001 1.0 Jonathan Wilson 3								
ENVS	H480F	Independent Study <i>Attributes: Environmental Studies</i> 1735 001 .5 Talia Young 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 <i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i> 1146 001 1.0 Kathryne Adair Corbin M W F 8:30AM 9:25AM STO16 18								
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. <i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i> 1147 001 1.0 Koffi Anyinefa M W F 10:30AM 11:25AM STO207 4 1148 002 1.0 Christophe Corbin M W F 9:30AM 10:25AM 1								
FREN	H101A	Perspectives sur la France contemporaine This course introduces French culture and cultural analysis through a series of flashpoints in France's history. What distinguishes France as a nation? How did it emerge before the Revolution of 1789 and how has it evolved since? What questions have shaped and reshaped French and Francophone identities? Today, France has a diverse population, due to its colonial pasts and its place at the crossroads of several ideological and aesthetic traditions. How does French society accommodate antithetical perspectives? As we explore these issues, we will learn to examine them analytically. Because the tools of analysis are often themselves "made in France," French culture will provide not only objects of study but also their means of interrogation. All the while, students will strengthen their skills in French language and expression through grammatical exercises, discussions, presentations, and essays. Prerequisite(s): FREN 004, or French placement exam <i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i> 1149 001 1.0 Kathryne Adair Corbin M W 11:30AM 12:55PM STO16 8 1150 002 1.0 Koffi Anyinefa T Th 2:30PM 3:55PM STO301 6								
FREN	H203A	Le 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,								

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<p>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 development of a centralized--i.e., modern--state (as represented, e.g., through the palace of Versailles and its gardens), and to the establishment of the French colonial empire and its infamous code noir. In French.</p> <p>Prerequisite(s): FREN 101 and 102/105, or 005 and 102/105</p> <p>Attributes: A: <i>Meaning, Interpretation (Texts)</i> Humanities</p>										
		2711	001	1.0	David Sedley	T Th	11:30AM	12:55PM	LUT211	7
FREN	H254A	<p>Matters of Taste: France and its Culinary Culture</p> <p>In 2010, "the gastronomic meal of the French" was inscribed on the UNESCO Intangible Cultural Heritage of Humanity, with particular mention to "togetherness, the pleasure of taste, and the balance between human beings and the products of nature." In addition, UNESCO noted the importance in choosing the right dish or recipe, how products are procured, which flavors marry well, the art of the table setting, and the specific structure of the meal. Why is "food" so central to French culture? Culinary culture is constructed from a rich fabric of narratives that sustain its very practice. What are those stories and how are they shared? In this course, we will explore the discourse, indeed the language, that led to the emergence of French cuisine and the rise of gastronomy in the nineteenth century. (We will even consider why the French don't like doggie bags... anymore.)</p> <p>Materials for consideration include literature, cookbooks, menus, film, television, sociological and historical text, as well as topics of contemporary political and social debate.</p> <p>Crosslisted: COML.</p> <p>Pre-requisite(s): First-year writing course</p> <p>Attributes: A: <i>Meaning, Interpretation (Texts)</i> Humanities</p>								
		2659	001	1.0	Kathryne Adair Corbin	T Th	1:00PM	2:25PM	STO16	4
FREN	H312A	<p>Adv Topics French Literature: L'Amérique' vue du monde francophone: Entre admiration et mépris</p> <p>Georges Duhamel, one of the authors on the program, called the United States of America "Outre-Occident". Obviously, the term is semantically loaded and connotes above all a certain exoticism, a difference. In this course, we will study and interrogate representations of "America" by French-speaking authors: what are the dominant features of these depictions? What are the ideas that underpin them? The tradition of portraying "America" is an old and very rich one, at least since the publication of On Democracy in America, de Tocqueville's famous study. Consequently, we will limit ourselves mostly to authors of the 20th and 21st centuries: Baudrillard, Beauvoir, Dalember, Duhamel, Godbout, Hergé, Labro and Sartre.</p> <p>Crosslisted: FREN and COML</p> <p>Attributes: A: <i>Meaning, Interpretation (Texts)</i> Africana Studies Humanities</p>								
		1151	001	1.0	Koffi Anyinefa	M	1:30PM	3:55PM		5
GERM	H001A	<p>Elementary German</p> <p>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.</p> <p>Enrollment Limit: 18</p> <p>Attributes: A: <i>Meaning, Interpretation (Texts)</i> Humanities</p>								
		1396	001	1.0	Michael Austin Burri	M T W Th F	9:30AM	10:25AM		3
GERM	H101A	<p>Intermediate German</p> <p>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.</p> <p>Enrollment Limit: 18</p>								

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	<i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i>									
	1397	001	1.0	Margaret Strair		M W F	11:30AM	12:25PM		4
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								
	<i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities</i>									
	1867	001	1.0	Imke Brust		M W	10:00AM	11:25AM		6
GERM	H262A	European Film This course will explore what role film plays in the conceptualization of the European Union. After a brief historical overview, we will familiarize ourselves with a variety of important European film movements after 1945. Our class discussion will cover important European film movements such as German Expressionist Film, Italian Neorealism, French New Wave, Czech New Wave, New German Cinema, and Dogma 95. In addition, we will be watching films from Poland, the Netherlands, and the Balkans. Towards the end of the semester we will discuss how the accelerated integration of the European Union since the 1990s has affected film production within the European Union and what aesthetic, and political ideas shape contemporary European films. Furthermore, this class also aims to highlight transnational aspects of European film in particular in light of the recent European refugee crisis. This course is taught in English with an extra-session in German. (Taught in English with an extra session in German.) Crosslisted: Coparative Literature, German								
	<i>Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies Humanities</i>									
	1868	001	1.0	Imke Brust		M W	11:30AM	12:55PM		9
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.								
	<i>Attributes: A: Meaning, Interpretation (Texts) Classics Humanities</i>									
	1159	001	1.0	Matthew Cullen Farmer		M W F	11:30AM	12:25PM		10
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								
	<i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i>									
	2535	001	1.0	Matthew Cullen Farmer		T Th	11:30AM	12:55PM		8
GSST	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 Lottery Preference(s): Gen/Sex concentrators, then first years and sophomores.								
	<i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Gender and Sexuality Studies Humanities</i>									
	2682	001	1.0	Regina K Velasco		T	1:30PM	3:55PM	FDR220	7
GSST	H192A	Introduction to Trans Studies Transgender (Trans) Studies is an interdisciplinary field that explores understandings of sex and gender through the discussion of lived trans experiences and theoretical tools to analyze gender, desire, embodiment, and identity. Students								

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					will learn to situate and assess assumptions about gender and sexuality, categories of identity, and social location. This course will raise questions about the social, political, cultural, legal, and historical rhetoric surrounding gender diversity in the U.S. context. Enrollment Limit: 25.00 Attributes: B: Analysis of the Social World Gender and Sexuality Studies Humanities					
	2913	001	1.0	Benae Beamon		T Th	11:30AM	12:55PM		1
GSST	H262A	Women and Philosophy in the Early Modern Era Women played an important yet often neglected role in the development of early modern philosophical thought. Despite social barriers, they remained at the center of philosophical conversations by writing influential letters and publishing philosophical novels, plays, and poems, in addition to more standard philosophical genres. This course seeks to revive women's voices from 17th-19th century European philosophy. We will cover various topics (mind/body, education, happiness), with a special focus on early modern feminism. Pre-requisite(s): One 100-level course in Philosophy Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies Humanities								
	2684	001	1.0	Charles Goldhaber		T Th	11:30AM	12:55PM	UN114	4
GSST	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) Gender and Sexuality Studies Humanities								
	2683	001	1.0	Regina K Velasco		M	1:30PM	3:55PM	UN111	9
HIST	H111A	Ruin and Renewal: Europe to 1500 The fall-semester course is a survey of Western Civilization from the fall of Rome to the sixteenth century. It focuses on the institutional and intellectual dimensions of the western tradition, by closely interrogating both primary sources and secondary accounts. The second semester of this course (which may be taken independent of the first semester) picks up at the beginning of the sixteenth century and goes to the present. It explores the development of the modern European world. Enrollment Limit: 25 Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Social Science								
	2689	001	1.0	Lisa Jane Graham		W F	11:30AM	12:55PM	HLL201	13
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								
	2426	001	1.0	Bethel A. Saler		T Th	2:30PM	3:55PM		11
HIST	H213A	Astrology: History & Practice This course examines the scientific and socio-cultural importance of astrology in the medieval and early modern world. The course combines analysis of the historical contexts in which astrology was practiced and made authoritative with instruction in mathematical and technical practices that made astrology an expert body of knowledge. Pre-requisite(s): A previous history course. Lottery Preference: none Enrollment Limit: 25.00 Attributes: B: Analysis of the Social World Social Science Symbolic Reasoning								
	2646	001	1.0	Darin Hayton		M W	11:30AM	12:55PM	HLL107	25
HIST	H225A	Europe: 1870-1914 Topics included are Marxism, The Dreyfus Affair, Imperialism, Sexual Anxiety, and Art Nouveau.								

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<i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Social Science</i> 2428 001 1.0 Linda Gerstein M W 1:00PM 2:25PM HLL201 6										
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 <i>Attributes: B: Analysis of the Social World Social Science</i> 2820 001 1.0 Emma Lapsansky T Th 1:00PM 2:25PM STO205 0								
HIST	H297A	Social Protest in Modern China Since 1949, Chinese state policies have engendered diverse modes of resistance, and today, popular uprisings continue to challenge assumptions about passivity under authoritarianism. This course reads contemporary Chinese history through the lens of social protest. Major events we will examine include: contestations of rule in the early People's Republic; the Cultural Revolution; the 1989 protests in Tiananmen Square; labor and rural resistance; the 2019-2020 demonstrations in Hong Kong; and most recently, the "A4 Revolution." Crosslisted: EALC. Enrollment Limit: 25.00 <i>Attributes: B: Analysis of the Social World Social Science</i> 2644 001 1.0 Ruodi Duan T Th 11:30AM 12:55PM HLL107 18								
HIST	H299A	Historical Methods Lab: Archive Theory and Practice In recent decades, the historical concept of "the archive" has served as a cornerstone for inquiry across disciplines in the humanities and social sciences. At a moment of dramatic transformation in archival practice through digital technologies, one that is fundamentally altering the nature of archives and our relationship to them, this course introduces students to the interdisciplinary theory and practice of the archive as method, material culture, power, and idea of the world. Prerequisite(s): Sophomore standing or above Enrollment Limit: 25 <i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Museum Studies Social Science</i> 2429 001 1.0 Marlen Rosas T Th 2:30PM 3:55PM 8								
HIST	H314A	Topics in Global Latin American History: Land and the Left in the Americas This course traces the debates over land distribution and agrarian reform that have been at the forefront of modern political strife and Indigenous activism in the Americas. We will explore how Latin America's rural poor have supported socialism and environmentalism as alternatives to capitalist extraction, as a strategy to break colonial vestiges, and as an anti-imperialist ideology. The course focuses on various case studies to address the meaning of socialism in largely agrarian societies, how states have implemented nationalist policies to redistribute land, and how new social movements approached land and community rights in ways that challenged the status quo. This class requires every student's vocal participation in discussions. Students will also complete historical research papers on a topic of their choice, related to the course themes. Lottery Preference: History Majors; Latin American Studies concentrators; Seniors/Juniors Enrollment Limit: 12.00 <i>Attributes: B: Analysis of the Social World Latin American, Iberian, and Latinx Studies Social Science</i> 2643 001 1.0 Marlen Rosas W 1:30PM 3:55PM 12								
HIST	H350A	Topics in the History of Science: Madness <i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Social Science</i> 2425 001 1.0 Darin Hayton M 1:30PM 3:55PM 15								
HIST	H356A	Topics European History:The Russian Revolutionary Movement the Russian Intelligentsia (from the Decembrists in 1825 to Dissidents in the 1970s.) Readings in primary sources (Herzen's memoir, Dostoevsky's novels, prison memoirs of Populist Terrorists, the Marxist underground and the SR terrorists 1900-1917, civil war resisters, resisters to Stalinism, the dissidents in the 1960s and 70s. <i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Social Science</i>								

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		2703	001	1.0	Linda Gerstein	Th	1:30PM	3:55PM	HLL201	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. <i>Attributes: Social Science</i>								
		1258	001	1.0	Lisa Jane Graham	F	1:30PM	3:55PM	HLL201	9
		1259	002	1.0	Ruodi Duan	F	1:30PM	3:55PM	HLL106	3
		1589	003	1.0	Bethel A. Saler	F	1:30PM	3:55PM	HLL112	2
HLTH	H115A	Introduction to Health Studies The multidisciplinary foundation for the health studies minor. Students will be introduced to theories and methods from the life sciences, social sciences, and humanities and will learn to apply them to problems of health and illness. Topics include epidemiological, public health, and biomedical perspectives on health and disease; social, behavioral, and environmental determinants of health; globalization of health issues; cultural representations of illness; health inequalities, social justice, and the ethics of health as a human right. Enrollment Limit: 25 Lottery Preference(s): 15 spaces to first-year students, 10 spaces to others 1. Health Studies minors 2. Sophomores 3. Juniors 4. Seniors <i>Attributes: B: Analysis of the Social World Health Studies Social Science</i>								
		1595	001	1.0	Lauren Minsky	T Th	11:30AM	12:55PM		14
HLTH	H215A	Sacrifice Zones: Empires, Epidemics, and Climate Changes Global health environments have been shaped by human activities of imperialism and globalization since antiquity. Explore the relationships between intensive agriculture and the cultivation of disease; trade and disease spread; industrial capitalism, metabolic disorders and cancers; and differential racial, gendered and class entitlements and life expectancy. Participate in debates over how to address humanity's current existential crisis, and learn about alternative approaches to "healing" global health environments that can be recycled from our global past. Pre-requisite(s): Intro to Health Studies (HLTH H115/HLTH B115) or permission of instructor. Lottery Preference: (1) Declared Health Studies minors, (2) Environmental Studies and/or History majors/minors Enrollment Limit: 25.00 <i>Attributes: B: Analysis of the Social World Environmental Studies Health Studies Social Science</i>								
		2835	001	1.0	Lauren Minsky	M W	11:30AM	12:55PM		0
HLTH	H216A	Epidemic City: Philadelphia from Yellow Fever to COVID-19 This course will examine how Philadelphia and other American cities have responded to epidemic disease throughout history, and, in turn, how epidemic diseases have shaped urban space and urban life. As part of the Tri-Co Philly Program, the course will provide students with opportunities to engage with historical sites and institutions in Philadelphia on topics relating to epidemics such as yellow fever, influenza, HIV/AIDS, and COVID. Prerequisite(s): Priority in registration will be given to students participating in the Tri-Co Philly Program and Health Studies minors. Remaining seats are available to other Tri-Co students, by lottery, if demand exceeds remaining spaces in the course. If you are interested in the program, you must fill out the application, which is due on Friday, March 31 by 11:59 pm (https://www.haverford.edu/philly-program). The program includes registering for two of three program's three courses: this course or Environmental Justice: Ethnography, Politics, Action/Philadelphia (ENVS 035/SOAN 035) or Public Art, Historical Preservation, and the Ethics of Commemoration (PHIL B234). Those not participating in the Philly program do not need to complete the application and can simply pre-register for a class. Lottery Preference: (1) Tri-Co Philly Cohort, (2) Health Studies minors. Enrollment Limit: 18.00 TriCo Philly students should expect to participate in program-related activities on Fridays, from 12:15 PM - 3:00 PM.								

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	<i>Attributes: B: Analysis of the Social World Health Studies Social Science</i>									
	2650	001	1.0	Nicholas Bonneau		W	12:30PM	3:00PM	FRDCTR1	18
HLTH	H232A	Food, Health, & Justice This class examines the complex connections between food, understandings of health, and social justice. The availability of sufficient, appealing, and healthy food is critical for human wellbeing, but what constitutes good food and what it means to thrive are each significantly shaped by social, cultural, and historical context. This class takes an interdisciplinary approach to situate food and health in their social and cultural contexts. Pre-requisite(s): HLTH 115 or instructor consent Lottery Preference: 1) declared health studies minors, 2) sophomores Enrollment Limit: 25.00 <i>Attributes: B: Analysis of the Social World Health Studies Social Science</i>								
	2916	001	1.0	Damien Droney		T Th	11:30AM	12:55PM		0
HLTH	H265A	Medical Anthropology What does it mean to attempt a critical anthropology of the body, illness experience, disease etiology, healing practices, and the epistemology of contemporary biomedicine across a diverse group of cultures and traditions? This course seeks to begin to answer this and other questions by examining the historical development of the field of medical anthropology, exploring the theoretical and philosophical underpinnings of the debates that have shaped the field, and examining the methodological concerns and ethnographic investigations that have broadened the scope of its inquiry. Readings range from classical ethnographic writings, philosophical treatises, anthropological theory, indigenous philosophers, and first person accounts of illness and health. Enrollment Limit: 25 Lottery Preference(s): 1.) Health Studies minors 2.) Anthropology majors and minors <i>Attributes: B: Analysis of the Social World Health Studies Humanities</i>								
	1717	001	1.0	Michael D'Arcy		T Th	1:00PM	2:25PM	UNMAC	4
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 concentrators. <i>Attributes: Africana Studies B: Analysis of the Social World Health Studies Social Science</i>								
	2556	001	1.0	Anna M West		T Th	11:30AM	12:55PM	UN111	15
HLTH	H318A	Traditional Medicine: Histories and Ethnographies What is "traditional medicine" and why is it simultaneously revered, reviled and suppressed? How does traditional medicine relate to "antique" senses and sensibilities of an enchanted cosmos, seasonality and stewardship? How have people translated and transformed traditional medicine for a "modern" world? Does traditional medicine have relevance for the climate crisis and billionaires' efforts to conjure transhumanism? Readings include TCM; Kampo; Talmudic Medicine; Ayurveda; Unani-tibb; Homeopathy; Sufi, Saint and Goddess cults; Yoga; and Nature Cure. Pre-requisite(s): HLTH 115, or any course in History, Anthropology or Religion, or permission of the instructor Lottery Preference: (1) Declared Health Studies seniors; (2) Declared Health Studies juniors; (3) History, Anthropology, Environmental studies, or Religion majors; (4) Everyone else. Enrollment Limit: 15.00 <i>Attributes: B: Analysis of the Social World Environmental Studies Health Studies Social Science</i>								
	2836	001	1.0	Lauren Minsky		F	11:00AM	1:25PM	UN114	0
HLTH	H320A	Biopolitics: The Governance of Life & Death Philosopher Michel Foucault described biopolitics as a kind of politics aimed at fostering life or disallowing it to the point of death. As such, this class considers "the politics of life itself." After reading key texts in biopolitical theory,								

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<p>we will examine works by social scientists who analyze institutions and forms of expertise that take life as an object of knowledge or intervention in a variety of political and economic settings.</p> <p>Pre-requisite(s): HLTH 115 or instructor consent</p> <p>Lottery Preference: 1) declared health studies minors, 2) seniors</p> <p>Enrollment Limit: 15.00</p> <p>Attributes: B: Analysis of the Social World Health Studies Social Science</p>										
		2917	001	1.0	Damien Droney	F	11:30AM	1:55PM		0
HLTH	H336A	<p>Science, Technology, Medicine, Power: (De)colonial knowledge production & epistemological community</p> <p>This course traces the relationship between scientific knowledge production, notions of technological "progress," and political, economic, and institutional power through the disciplinary histories of anthropology and Science and Technology Studies. Texts will include STS classics that frame contemporary science and medicine as the products of political and economic history, as well as work in anthropology and STS that center non-western and indigenous traditions of knowledge and the voices of BIPOC and feminist scholars.</p> <p>Crosslisted: HLTH.</p> <p>Pre-requisite(s): Introductory level coursework in anthropology (sociocultural or medical) or health studies</p> <p>Lottery Preference: Anthropology, health studies, history, political science</p> <p>Enrollment Limit: 15.00</p> <p>Attributes: B: Analysis of the Social World Health Studies Social Science</p>								
		2718	001	1.0	Michael D'Arcy	W	1:30PM	3:55PM		3
HLTH	H498A	<p>Senior Thesis Seminar: Supervised Research and Writing</p> <p>Thesis advising for independent majors that are related to Health Studies.</p>								
		2557	001	1.0	Anna M West	T Th	1:00PM	2:25PM	UN114	4
ICPR	H116A	<p>Ethical Struggles in Catastrophic Times: Quakers' Responses to the Holocaust</p> <p>In the 1930s and 1940s, Quakers engaged in a number of remarkable—and controversial—activities that were intended to provide assistance to people who were being persecuted by the Nazis. Those actions were criticized by some US citizens (who thought that Quakers were giving unwitting aid to the Nazis) and also derided by Nazis such as Joseph Goebbels (who thought that Quakers were demonstrating a complete lack of awareness about how the world really works.) Nevertheless, Quakers' actions did end up saving some lives. Students in this course will examine what Quakers accomplished—and failed to accomplish—in the 1930s and 1940s. The course is not designed as a venue in which to decide, once and for all, which of the Quakers' actions were wise and which were foolish. The course is meant, rather, to offer students an opportunity to reflect on the ethical questions with which Quakers wrestled and an invitation to compare those questions with the ones they face themselves.</p> <p>Crosslisted: Independent College Programs; Religion; Peace, Justice and Human Rights</p> <p>Enrollment Limit: 15</p> <p>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities Peace, Justice and Human Rights</p>								
		2767	001	1.0	David Harrington Watt	T Th	1:00PM	2:25PM	LUT230	0
ICPR	H298A	<p>Impact Investing</p> <p>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.</p> <p>Crosslisted: Economics, Independent College Programs, PJHR</p> <p>Prerequisite(s): ECON 104 or 105 or 106</p> <p>Enrollment Limit: 16</p> <p>Attributes: B: Analysis of the Social World Peace, Justice and Human Rights Social Science B: Analysis of the Social World Peace, Justice and Human Rights Social Science</p>								

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		2432	001	1.0	Shannon B. Mudd	F	2:30PM	3:25PM	UN114	0
		2432	001	1.0	Shannon B. Mudd	M W	2:30PM	3:55PM	UN114	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: B: <i>Analysis of the Social World</i> <i>Peace, Justice and Human Rights</i> <i>Social Justice</i> <i>Social Science</i>								
		1186	001	1.0	Thomas J. Donahue	W	1:30PM	3:55PM	STO104	3
ICPR	H319A	Human Rights in Philadelphia and Pennsylvania-In National and Global Context This course considers human rights as moral aspirations and as interdependent experiences created through civil law, drawing on student internships with social sector organizations in Philadelphia and throughout the United States, to interrogate the relationship between social issues and policy structures. Prerequisite(s): An internship through the Center for Peace and Global Citizenship. Exceptions may be made for students involved in other forms of sustained community engagement and/or activism. Enrollment Limit: 25 Lottery Preference(s): Returning CPGC Interns Attributes: B: <i>Analysis of the Social World</i> <i>Peace, Justice and Human Rights</i> <i>Social Science</i>								
		1647	001	1.0	Eric Hartman	F	11:00AM	1:25PM	VCAM201	4
ITAL	H001A	Beginning Italian I This course provides a solid introduction to the Italian language and culture. It is intended for students with no previous knowledge of Italian and aims at giving them a complete foundation in Italian grammar and pronunciation, with particular attention to listening, speaking, reading, and writing skills. Students refine communicative and cross-cultural comparison abilities by completing tasks such as role-plays, music projects, and creative compositions, in pairs and/or small groups, to stimulate dialogue and create a dynamic and vibrant learning environment. Classes are student-centered and designed to foster students' language skills, keeping in mind their different ways of learning. ITAL001 is based on five weekly 50 minute-sessions: four sessions with the instructor and one with a TA, to work on written and oral assignments and hone language communicative skills. This course promotes diversity, equity, and inclusion by adopting a free OER textbook. Prerequisites: none. Enrollment Limit: 15 Attributes: A: <i>Meaning, Interpretation (Texts)</i> <i>Humanities</i>								
		1399	001	1.0	Daria Bozzato	M T W Th F	8:30AM	9:25AM	STO301	3
		1400	002	1.0	Daria Bozzato	M T W Th F	9:30AM	10:25AM	STO301	5
JNSE	H001A	First-Year Japanese (Intensive) Class meets six hours per week. Students must register for sections 1, 2 or 3 and A, B or C. An introduction to the four basic skills (reading, writing, speaking, and listening), with special emphasis on the development of conversational fluency in socio-cultural contexts. This is a year-long course; both semesters (001 & 002) are required for credit. Enrollment Limit: 18 Attributes: A: <i>Meaning, Interpretation (Texts)</i> <i>East Asian Languages and Cultures</i> <i>Humanities</i>								

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		1404	001	1.5	Tetsuya Sato	M W	8:30AM	9:55AM	STO18	8
		1407	002	1.5	Yuka Usami Casey	M W	10:00AM	11:25AM	STO18	5
		1410	003	1.5	Yuka Usami Casey	M W	1:00PM	2:25PM	STO18	5
		1405	00A	.0	Kei Walsh	T Th	8:30AM	9:55AM	STO18	8
		1406	00B	.0	Minako Kobayashi	T Th	10:00AM	11:25AM	STO18	5
		1411	00C	.0	Minako Kobayashi	T Th	1:00PM	2:25PM	STO18	5
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								
		<i>Attributes: A: Meaning, Interpretation (Texts) East Asian Languages and Cultures Humanities</i>								
		1429	001	1.0	Kimiko Suzuki	M W	8:30AM	9:55AM	STO14	4
		1430	002	1.0	Kimiko Suzuki	M W	10:00AM	11:25AM	STO14	9
		1431	00A	.0	Yuka Usami Casey	T Th	10:30AM	11:25AM	STO14	5
		1432	00B	.0	Yuka Usami Casey	T Th	11:30AM	12:25PM	STO14	8
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								
		<i>Attributes: A: Meaning, Interpretation (Texts) East Asian Languages and Cultures Humanities</i>								
		1408	001	1.0	Tetsuya Sato	M W F	11:30AM	12:25PM	GST102	4
JNSE	H201A	Advanced Japanese								
		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								
		<i>Attributes: A: Meaning, Interpretation (Texts) East Asian Languages and Cultures Humanities</i>								
		1409	001	1.0	Kimiko Suzuki	T Th	11:30AM	12:55PM	GST102	8
JNSE	H480A	Independent Study								
		2755	001	1.0	Tetsuya Sato					1
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.								
		Enrollment Limit: 18								
		<i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i>								
		1160	001	1.0	Bret Mulligan	M W F	10:30AM	11:25AM	HLL107	12
		1546	002	1.0	Bret Mulligan	M W F	9:30AM	10:25AM	HLL107	9
LATN	H102A	Intermediate Latin: Roman Identities								
		Our focus in this intermediate language course will be on reading and analyzing selections from two Latin texts, Catullus' Carmina (Poems) and The Passion of Perpetua and Felicity. Through this exercise, we will review various aspects of Latin								

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					grammar and develop sound reading strategies as we continue our study of Latin together. Doing so will help us appreciate the cultural, literary, and historical issues that these two texts speak to, particularly those concerning identity (cultural, gender, or religious) and Roman social mores. Prerequisite(s): LATN 002 or placement into LATN 102. Attributes: A: Meaning, Interpretation (Texts) Classics Humanities					
		1161	001	1.0	Robert S Santucci	M W F	10:30AM	11:25AM		4
LATN	H201A	Advanced Latin Literature Prerequisite(s): Two semesters of 100-level Latin, or instructor consent Attributes: A: Meaning, Interpretation (Texts) Humanities								
		2714	001	1.0	TBA Department staff	T Th	10:00AM	11:25AM		7
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 majors/minors (6) sophomores (7) first years (8) everyone else (jrs/seniors) Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities								
		1940	001	1.0	Noah Elkins	M W	10:00AM	11:25AM	STO102	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: B: Analysis of the Social World Humanities Neuroscience Symbolic Reasoning								
		1941	001	1.0	Amanda Payne	T Th	11:30AM	12:55PM	STO102	25
LING	H114A	Introduction to Semantics This course focuses on the study of meaning in human language. We will explore semantic issues that arise from the lexicon, the sentences, and the discourse. Along the way, we will investigate not only the semantic structure of natural language but also pragmatic factors that affect language use. This is a participation-intensive course. In the process, students will not only learn the basic semantic theory but will also develop skills in observing semantic patterns and analyzing these patterns in order to come to some generalizations on their own.								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
Prerequisite(s): Any previous linguistics class or instructor permission. 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: B: Analysis of the Social World Humanities Neuroscience Symbolic Reasoning 1597 001 1.0 Shizhe Huang T Th 1:00PM 2:25PM CHS101 19										
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: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins M W 1:00PM 2:25PM 12					
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: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities Latin American, Iberian, and Latinx Studies 2745 001 1.0 Ana López-Sánchez T Th 11:30AM 12:55PM 3					
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					

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Lottery Preference(s): Linguistics majors, Linguistics minors, then first years and sophomores, then juniors, then seniors. <i>Attributes: B: Analysis of the Social World Social Science</i> 1939 001 1.0 Amanda Payne T 1:30PM 3:55PM STO207 1										
LING	H299A	Advanced Research Methods Students will explore the methods and tools used in research in many linguistics subfields, such as theoretical, corpus, experimental, and sociolinguistics. We will study examples of previous senior theses as well as published articles, identifying their research questions, contributions, and argument structure. Students will also work on a topic of their own choosing, compiling and synthesizing literature and culminating in a research proposal that could serve as the starting point for their senior thesis. Pre-requisite(s): Any TWO of the following, or instructor permission: LING101 (S001) Introduction to Linguistics, LING125 (S025) Sociolinguistics, LING113 (S050) Syntax, LING114 (S040) Semantics, LING115 (S045) Phonetics and Phonology Lottery Preference: 1) Senior majors, 2) Junior Majors, 3) Minors, 4) Everyone else Enrollment Limit: 15.00 <i>Attributes: B: Analysis of the Social World Social Science</i> 1612 001 1.0 Jane Chandlee F 1:30PM 3:55PM STO207 5								
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. <i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities</i> 1440 001 1.0 Brook Danielle F 1:30PM 3:55PM GST102 2 Lillehaugen 1441 002 1.0 Shizhe Huang F 1:30PM 3:55PM GST103 0								
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: 25 <i>Attributes: C: Physical and Natural Processes Natural Science Quantitative</i> 1493 001 1.0 Jeffrey Tecosky-M W F 10:30AM 11:25AM HLS109 24 Feldman 2547 002 1.0 Rebecca Everett M W F 10:30AM 11:25AM UNMAC 2								
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 <i>Attributes: C: Physical and Natural Processes Natural Science Quantitative</i> 1465 001 1.0 Anthony Kling M W 10:00AM 11:25AM STO10 2 1466 002 1.0 Joshua Sabloff M W 10:00AM 11:25AM STO16 9 1488 003 1.0 Anthony Kling M W 11:30AM 12:55PM STO10 8 1495 004 1.0 Joshua Sabloff M W 1:00PM 2:25PM STO16 10								
MATH	H121A	Multivariable Calculus								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld																																				
<p>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.</p> <p>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</p> <p>Enrollment Limit: 24</p> <p>Attributes: Biophysics C: Physical and Natural Processes Natural Science Quantitative</p> <table><tr><td>1467</td><td>001</td><td>1.0</td><td>Tianyuan Xu</td><td>M W F</td><td>9:30AM</td><td>10:25AM</td><td>HLL7</td><td>10</td></tr><tr><td>1468</td><td>002</td><td>1.0</td><td>Tianyuan Xu</td><td>M W F</td><td>10:30AM</td><td>11:25AM</td><td>HLL7</td><td>4</td></tr><tr><td>1483</td><td>003</td><td>1.0</td><td>Elizabeth Townsend Milicevic</td><td>M W F</td><td>10:30AM</td><td>11:25AM</td><td>HLS11</td><td>18</td></tr><tr><td>1496</td><td>004</td><td>1.0</td><td>Elizabeth Townsend Milicevic</td><td>M W F</td><td>11:30AM</td><td>12:25PM</td><td>HLS11</td><td>9</td></tr></table>											1467	001	1.0	Tianyuan Xu	M W F	9:30AM	10:25AM	HLL7	10	1468	002	1.0	Tianyuan Xu	M W F	10:30AM	11:25AM	HLL7	4	1483	003	1.0	Elizabeth Townsend Milicevic	M W F	10:30AM	11:25AM	HLS11	18	1496	004	1.0	Elizabeth Townsend Milicevic	M W F	11:30AM	12:25PM	HLS11	9
1467	001	1.0	Tianyuan Xu	M W F	9:30AM	10:25AM	HLL7	10																																						
1468	002	1.0	Tianyuan Xu	M W F	10:30AM	11:25AM	HLL7	4																																						
1483	003	1.0	Elizabeth Townsend Milicevic	M W F	10:30AM	11:25AM	HLS11	18																																						
1496	004	1.0	Elizabeth Townsend Milicevic	M W F	11:30AM	12:25PM	HLS11	9																																						
MATH	H203A	<p>Statistical Methods and their Applications</p> <p>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.</p> <p>Crosslisted: Mathematics, Statistics</p> <p>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</p> <p>Enrollment Limit: 20</p> <p>Attributes: C: Physical and Natural Processes Health Studies Natural Science Quantitative</p> <table><tr><td>1471</td><td>001</td><td>1.0</td><td>Weiwen Miao</td><td>M W</td><td>2:30PM</td><td>3:55PM</td><td>HLS12</td><td>9</td></tr><tr><td>1472</td><td>00A</td><td>.0</td><td>Weiwen Miao</td><td>F</td><td>2:30PM</td><td>3:55PM</td><td>HLS12</td><td>9</td></tr></table>									1471	001	1.0	Weiwen Miao	M W	2:30PM	3:55PM	HLS12	9	1472	00A	.0	Weiwen Miao	F	2:30PM	3:55PM	HLS12	9																		
1471	001	1.0	Weiwen Miao	M W	2:30PM	3:55PM	HLS12	9																																						
1472	00A	.0	Weiwen Miao	F	2:30PM	3:55PM	HLS12	9																																						
MATH	H206A	<p>Introduction to Mathematical Cryptography</p> <p>This course introduces modern cryptography from a mathematical perspective, focusing on public key cryptosystems. We will emphasize the theory, analysis, and practical application of various cryptosystems. Topics will include Diffie-Hellman, RSA, and elliptic curve cryptography. We will also develop any necessary mathematical background, including modular arithmetic.</p> <p>Pre-requisite(s): MATH 121 or 215, or permission of the instructor</p> <p>Lottery Preference: Random</p> <p>Enrollment Limit: 25.00</p> <p>Attributes: C: Physical and Natural Processes Natural Science</p> <table><tr><td>2571</td><td>001</td><td>1.0</td><td>Anthony Kling</td><td>T Th</td><td>10:00AM</td><td>11:25AM</td><td>HLS11</td><td>21</td></tr></table>									2571	001	1.0	Anthony Kling	T Th	10:00AM	11:25AM	HLS11	21																											
2571	001	1.0	Anthony Kling	T Th	10:00AM	11:25AM	HLS11	21																																						
MATH	H215A	<p>Linear Algebra</p> <p>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.</p> <p>Prerequisite(s): MATH 121 or equivalent placement, or 118 with instructor consent, or CMSC 231</p> <p>Enrollment Limit: 25</p> <p>Attributes: C: Physical and Natural Processes Natural Science Quantitative</p> <table><tr><td>1459</td><td>001</td><td>1.0</td><td>Mehdi Abdi Anbouhi</td><td>M W F</td><td>8:30AM</td><td>9:25AM</td><td></td><td>18</td></tr><tr><td>1460</td><td>002</td><td>1.0</td><td>Jeffrey Tecosky-Feldman</td><td>M W F</td><td>12:30PM</td><td>1:25PM</td><td>HLS109</td><td>18</td></tr></table>									1459	001	1.0	Mehdi Abdi Anbouhi	M W F	8:30AM	9:25AM		18	1460	002	1.0	Jeffrey Tecosky-Feldman	M W F	12:30PM	1:25PM	HLS109	18																		
1459	001	1.0	Mehdi Abdi Anbouhi	M W F	8:30AM	9:25AM		18																																						
1460	002	1.0	Jeffrey Tecosky-Feldman	M W F	12:30PM	1:25PM	HLS109	18																																						
MATH	H218A	<p>Probability</p> <p>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.</p> <p>Prerequisite(s): MATH 216 or 121 or consent</p> <p>Enrollment Limit: 30</p> <p>Attributes: C: Physical and Natural Processes Natural Science Quantitative</p>																																												

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1470	001	1.0	Lynne M. Butler	M W F	10:30AM	11:25AM	HLS108	30
MATH	H299A	Junior Seminar in Mathematics and Statistics								
		A course to introduce all math majors to research and communication methods used by mathematicians and statisticians, and to discuss the structures and workings of mathematical communities, including the ethical implications of bringing mathematical skills to a workplace or community. Students produce a "junior paper" anchored in an application of linear algebra, helping prepare them to write a thesis as a senior, and plan a colloquium or panel discussion open to the entire Haverford community.								
		Pre-requisite(s): Linear Algebra (MATH H215) or instructor consent								
		Lottery Preference: Math Majors, by seniority within that group								
		Enrollment Limit: 25.00								
		Attributes: C: Physical and Natural Processes Natural Science								
		2568	001	1.0	Elizabeth Townsend Milicevic	F	1:30PM	3:55PM	HLS11	13
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								
		Enrollment Limit: 25								
		Attributes: C: Physical and Natural Processes Natural Science Quantitative								
		1469	001	1.0	David Lippel	M W F	11:30AM	12:25PM	STO14	25
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: 25								
		Attributes: C: Physical and Natural Processes Natural Science								
		2549	001	1.0	Tarik Aougab	M W	2:30PM	3:55PM		17
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: C: Physical and Natural Processes Natural Science Quantitative								
		1211	001	.0	Steven Lindell	M W	10:00AM	11:25AM	SHA410	0
		1210	00A	1.0	Steven Lindell	F	10:00AM	11:25AM		0
MATH	H382A	Mathematical Modeling and Differential Equations								
		An introduction to modeling in applied mathematics using differential equations, with examples from biology, chemistry, engineering, physics, and/or the social sciences. Through these examples, we build mathematical models that reflect real world scenarios and analyze them to gain an understanding of the problem. Techniques of analysis may include phase plane methods, stability analysis, bifurcation theory, and computer simulation.								

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Pre-requisite(s): MATH H204 or equivalent, or permission of the instructor Lottery Preference: Math majors, then math minors, then by seniority Enrollment Limit: 15.00 Attributes: C: Physical and Natural Processes Natural Science										
	2578	001	1.0	Rebecca Everett		M W F	12:30PM	1:25PM	ESTW309	15
MATH	H390A	Advanced Topics in Algebra: Algebraic Combinatorics An introduction to applications of algebra to combinatorics and vice versa. Topics include Polya's theory of counting, generating functions, the matrix-tree theorem, the Robinson-Schensted-Knuth correspondence, symmetric functions, and the basic theory of Coxeter groups. Prerequisite(s): MATH 333 Enrollment Limit: 15 Attributes: C: Physical and Natural Processes Natural Science								
	2575	001	1.0	Tianyuan Xu		M W F	12:30PM	1:25PM		6
MATH	H394A	Advanced Topics in Theoretical Computer Science: Math Foundations of Machine Learning An introduction to the mathematical principles behind modern machine learning algorithms. Covers advanced topics in linear algebra, vector calculus, probability theory, and optimization, with a particular focus on their relevance to machine learning tasks. We will also discuss various practical applications. Crosslisted: Mathematics, Computer Science Prerequisite(s): MATH 121 and 215, or instructor permission Enrollment Limit: 15 Attributes: C: Physical and Natural Processes Natural Science								
	2576	001	1.0	Mehdi Abdi Anbouhi		M W F	9:30AM	10:25AM		12
MATH	H396A	Advanced Topics in Probability and Statistics: Categorical Data Analysis Various topics in statistics will be covered. Statistical methods for qualitative and counted data. Topics include description and inference for binomial and multinomial data using proportions and odds ratios; multi-way contingency tables; generalized linear models for discrete data, including logistic regression for binary responses and loglinear models for counted data; multi-category logit models for nominal and ordinal responses; and inference for matched-pairs and correlated data. Applications and interpretations of statistical models are emphasized. Crosslisted: Mathematics, Statistics Prerequisite(s): MATH 218. Students who have taken STAT 203 or 286 may take MATH 218 concurrently. Enrollment Limit: 50 Attributes: Natural Science Quantitative								
	2569	001	1.0	Lynne M. Butler		M W	2:30PM	3:55PM	ESTW309	4
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								
	1458	001	.5	Lynne M. Butler		F	1:30PM	3:55PM	HLS108	16
MATH	H400F	Senior Research Work on Senior Thesis with Advisor. Attributes: C: Physical and Natural Processes Natural Science Quantitative								
	1457	001	.5	Rebecca Everett						0
	1461	002	.5	Lynne M. Butler						1
	1462	003	.5	Joshua Sabloff						1
	1463	004	.5	Elizabeth Townsend Milicevic						0
	1464	005	.5	Tarik Aougab						0
	1477	006	.5	David Lippel						0
	1503	007	.5	TBA Department staff						1

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1504	008	.5	Anthony Kling					0
MATH	H480A	Independent Study Independent Study								
		1487	001	1.0						0
		1492	002	1.0						0
MATH	H480F	Independent Study								
		1479	001	.5						0
		1484	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. <i>Attributes: Humanities</i>								
		1214	001	.5	Scott AuCoin	W	7:00PM	9:15PM	ROB100	10
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. <i>Attributes: A: Creative Expression Humanities</i>								
		1226	001	1.0	Ingrid Arauco	T Th	10:00AM	11:25AM	ROB200	13
MUSC	H203A	Principles of Tonal Harmony I An introduction to tonal music theory and compositional practice, drawing on diverse American and European repertoires. Explored are techniques of musical analysis, harmonization in four parts, and the craft of composition from the phrase level to larger units of structure. Composition of a set of variations, sonatina, or other homophonic piece is the final project. Lab period covers related aural and keyboard harmony skills. Prerequisite(s): MUSC 110 or instructor consent <i>Attributes: A: Creative Expression Humanities</i>								
		1216	001	1.0	Mei-ling Lee	T Th	2:30PM	3:55PM	ROB200	10
MUSC	H208F	Private Study: Instrumental 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. <i>Attributes: A: Creative Expression Humanities</i>								
		1217	001	.5	Heidi Carolyn Jacob					6
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								

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					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. <i>Attributes: A: Creative Expression Humanities</i>					
		1218	001	.5	Scott AuCoin					10
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. <i>Attributes: A: Creative Expression Humanities</i>								
		1219	001	.5	Heidi Carolyn Jacob					5
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.								
		1215	001	.5	Scott AuCoin	M Th	4:40PM	6:20PM	ROB100	11
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. <i>Attributes: Humanities</i>								
		1212	001	.5	Heidi Carolyn Jacob					8
MUSC	H216F	Orchestra The Haverford-Bryn Mawr Orchestra has over seventy members and performs a wide range of symphonic repertoire. 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.								
		1213	001	.5	Heidi Carolyn Jacob	Th	7:00PM	9:25PM	ROB100	16
		1213	001	.5	Heidi Carolyn Jacob	Th	7:00PM	9:25PM	MARSHAUD	16
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 <i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i>								
		1220	001	1.0	Richard Freedman	M W	11:30AM	12:55PM	ROB200	7
MUSC	H240A	Musical Cultures of Afro-Latin America This course considers Afro-Latin American music within a broad cultural framework. The course surveys the historical and musical development of various social groups, who constitute the African diaspora in the Americas and the Caribbean. It								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld	
					explores African-influenced musical cultures and practices that emerged from syncretic practices among indigenous, African, and European people, focusing on folkloric, ritual, and popular forms of expression. Lottery Preference: Music majors Enrollment Limit: 25.00 Attributes: A: Meaning, Interpretation (Texts) Humanities Latin American, Iberian, and Latinx Studies						
		1724	001	1.0	Edwin Porras	M W	1:00PM	2:25PM	ROB200	5	
MUSC	H242A	The Lives of Musical Instruments: Concepts and Classifications Ever wonder why a violin is not a fiddle or feel that traditional classifications are inadequate to express ALL a musical instrument is, including what they mean to you personally? This course explores the numerous formal and informal systems that humans in their desire to create rational structures, have created to classify and think about musical instruments around the world. It also explores the diversity of instrument-related philosophical, symbolic, disciplinary, and intellectual approaches and meanings that humans have conceived and that express the world's great cultural diversity. Enrollment Limit: 25.00 Attributes: A: Meaning, Interpretation (Texts) Humanities									
		2651	001	1.0	Edwin Porras	T Th	1:00PM	2:25PM	ROB200	6	
MUSC	H255A	Encoding Music: Digital Approaches to Scores and Sound How do we represent music, in all its forms, from concept to practice? What sorts of systems have humans devised to learn, transmit, and preserve music? How have we collected and categorized music? And what might these activities look like in an era of ubiquitous data? In this course musicians and computer scientists will team up to explore two key dimensions of the digital revolution for music: data about music, and music as data. Pre-requisite(s): This course is open to students interested in music, computer science or data science. Some previous coursework or experience with either (but not both) would be good preparation for this course. That is either: a basic working knowledge of musical concepts (staff notation, guitar tablature, scales and keys, or work with MIDI) or some familiarity with computer code (Python, XML) or data structures. Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00 Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Data Science Humanities Symbolic Reasoning									
		1613	001	1.0	Richard Freedman	M W	2:30PM	3:55PM	ROB200	12	
		1666	00A	.0	Richard Freedman					12	
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									
		1221	001	1.0	Ingrid Arauco	T Th	8:30AM	9:55AM	ROB200	6	
MUSC	H480A	Independent Study Prerequisite(s): Approval of department and consent of instructor Attributes: Humanities									
		1222	001	1.0	Ingrid Arauco					0	
		1223	002	1.0	Richard Freedman					0	
		1224	003	1.0	Heidi Carolyn Jacob					0	
		1225	004	1.0	Edwin Porras					0	
		1293	005	1.0	TBA Department staff					1	
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.									

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	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: C: Physical and Natural Processes Natural Science										
		1398	001	1.0	Patrese Robinson-Drummer	T Th	10:00AM	11:25AM	HLS108	35
		2647	002	1.0	Emily Black	M W	8:30AM	9:55AM	SHA410	32
NEUR	H398A	Sr Thesis Neuroscience								
		Sr Thesis Neuroscience								
		2625	001	1.0	Laura E. Been	F	1:30PM	3:55PM	SHA416	4
		2626	002	1.0	Rebecca Compton	F	1:30PM	3:55PM		6
		2627	003	1.0	Robert Fairman	F	1:30PM	2:55PM		3
		2628	004	1.0	Roshan Jain	F	1:30PM	2:55PM		3
		2629	005	1.0	Patrese Robinson-Drummer	F	1:30PM	2:55PM		5
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: 25 Lottery Preferences: 10 seats for incoming first-year students; PJHR concentrators and sophomores. Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Peace, Justice and Human Rights Social Science								
		1883	001	1.0	Joshua Ramey	M W	11:30AM	12:55PM	HLL7	17
PEAC	H116A	Ethical Struggles in Catastrophic Times: Quakers' Responses to the Holocaust								
		In the 1930s and 1940s, Quakers engaged in a number of remarkable—and controversial—activities that were intended to provide assistance to people who were being persecuted by the Nazis. Those actions were criticized by some US citizens (who thought that Quakers were giving unwitting aid to the Nazis) and also derided by Nazis such as Joseph Goebbels (who thought that Quakers were demonstrating a complete lack of awareness about how the world really works.) Nevertheless, Quakers' actions did end up saving some lives. Students in this course will examine what Quakers accomplished—and failed to accomplish—in the 1930s and 1940s. The course is not designed as a venue in which to decide, once and for all, which of the Quakers' actions were wise and which were foolish. The course is meant, rather, to offer students an opportunity to reflect on the ethical questions with which Quakers wrestled and an invitation to compare those questions with the ones they face themselves. Crosslisted: Independent College Programs; Religion; Peace, Justice and Human Rights Enrollment Limit: 15 Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities Peace, Justice and Human Rights								
		2768	001	1.0	David Harrington Watt	T Th	1:00PM	2:25PM	LUT230	0
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: 25 Lottery Preference: PJHR concentrators, then first-year students and sophomores Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Health Studies Humanities Peace, Justice and Human Rights								
		1455	001	1.0	Prea Persaud Khanna	T Th	2:30PM	3:55PM	UNMAC	16
PEAC	H214A	Ethics of Worldbuilding: Science Fiction and Social/Political Theory								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
<p>This course will use science fiction to situate contemporary problems of political life and political theory in new contexts. Our main aim will be to decenter some of our presuppositions about what form political writing, persuasion, and action ought to take. Readings include science fiction, philosophy, psychology, anthropology, political science, neuroscience, poetry, literature, gender studies, Indigenous studies, and Black studies. Assignments include analysis of texts, storytelling, worldbuilding thought experiments, political writing, and visual argument.</p> <p>Pre-requisite(s): PEAC 101 or 201 or consent of instructor</p> <p>Lottery Preference: PJHR concentrators, 7 spaces reserved for first years</p> <p>Enrollment Limit: 25.00</p> <p>Attributes: A: <i>Meaning, Interpretation (Texts)</i> Humanities Peace, Justice and Human Rights</p>										
		2709	001	1.0	Jill Stauffer	T Th	11:30AM	12:55PM	UNMAC	14
PEAC	H244A	<p>Our Americas: Imagining the Hemisphere</p> <p>This course focuses on theorists of culture and society across the Americas, as well as major genres of nineteenth- and twentieth-century literature, considering interventions from Caribbean, Latin American, and North American figures. Reading novels, memoir, travel writing and poetry, we'll theorize the structures of hemispheric life: how did race and the color line, slavery and the plantation, settler colonialism, labor and migration, travel and transit, and war and imperialism create a shared hemispheric history?</p> <p>Crosslisted: PEAC,COML</p> <p>Pre-requisite(s): One course involving literary analysis.</p> <p>Enrollment Limit: 20.00</p> <p>Attributes: A: <i>Meaning, Interpretation (Texts)</i> Humanities Peace, Justice and Human Rights</p>								
		2631	001	1.0	Dennis Hogan	T Th	1:00PM	2:25PM	UN111	2
PEAC	H298A	<p>Impact Investing</p> <p>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.</p> <p>Crosslisted: Economics, Independent College Programs, PJHR</p> <p>Prerequisite(s): ECON 104 or 105 or 106</p> <p>Enrollment Limit: 16</p> <p>Attributes: B: <i>Analysis of the Social World</i> Peace, Justice and Human Rights Social Science B: <i>Analysis of the Social World</i> Peace, Justice and Human Rights Social Science</p>								
		2433	001	1.0	Shannon B. Mudd	F	2:30PM	3:25PM	UN114	1
		2433	001	1.0	Shannon B. Mudd	M W	2:30PM	3:55PM	UN114	1
PEAC	H305A	<p>Debt, Justice, and Sovereignty</p> <p>Global indebtedness has reached astronomical and obscene proportions, and vast numbers of human beings are effectively enslaved to debt. This course examines the history of debt politics and the role of credit and debt in struggles for justice and sovereignty, in both pre-capitalist and capitalist societies. Particular focus will be placed on contemporary debates in the theory of money, and on the ambiguous and fraught relations between money and credit. Special consideration will be given to arguments for debt resistance politics as a strategy of emancipation and democratization in the context of neoliberal ideology, extreme wealth inequality, and environmental destruction, since these forces are arguably both the effects and causes of power relations enabling some to maintain perpetual creditworthiness while most have their futures foreclosed by the requirement that they pay their debts.</p> <p>Crosslisted: no</p> <p>Prerequisite(s): PEAC 101 or PEAC 201 or consent of instructor</p> <p>Enrollment Limit: 15</p> <p>Lottery Preference(s): PJHR concentrators, then juniors and seniors, then all students</p> <p>Attributes: A: <i>Meaning, Interpretation (Texts)</i> Humanities Peace, Justice and Human Rights</p>								
		2719	001	1.0	Joshua Ramey	M W	1:00PM	2:25PM	HLL7	3

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
PEAC	H319A	Human Rights in Philadelphia and Pennsylvania-In National and Global Context This course considers human rights as moral aspirations and as interdependent experiences created through civil law, drawing on student internships with social sector organizations in Philadelphia and throughout the United States, to interrogate the relationship between social issues and policy structures. Prerequisite(s): An internship through the Center for Peace and Global Citizenship. Exceptions may be made for students involved in other forms of sustained community engagement and/or activism. Enrollment Limit: 25 Lottery Preference(s): Returning CPGC Interns Attributes: B: Analysis of the Social World Peace, Justice and Human Rights Social Science 1668 001 1.0 Eric Hartman F 11:00AM 1:25PM VCAM201 3								
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: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities Peace, Justice and Human Rights 1502 001 1.0 Jill Stauffer F 1:30PM 3:55PM LUT211 4								
PHIL	H103A	Global Ethics An exploration of selected texts on ethics in a global context. This course seeks to develop a global perspective on human values through a critical exploration of vital texts on ethics across diverse philosophical traditions. A central focus is on the challenge of articulating global ethics and global values across cultures, worldviews, and traditions. Are there global norms valid for diverse worldviews? Is there a global foundation for ethics? Are there universal human rights? How do we think critically across and between diverse worldviews and perspectives? A course in Global Philosophy, not for major or minor credit. Enrollment Limit: 25 Lottery Preference(s): 5 seats reserved for incoming freshmen. Attributes: A: Meaning, Interpretation (Texts) Humanities 2558 001 1.0 Ashok K Gangadean T Th 2:30PM 3:55PM GST101 22								
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 1388 001 1.0 Joel Yurdin T Th 10:00AM 11:25AM STO10 29								
PHIL	H119A	What Does Philosophy Have to do with Social Media? What relationship does philosophy have to issues arising in the contemporary world? What relationship does philosophy have to our experiences with and usages of digital social media? What sorts of digital humanities projects might be born of the intersection of philosophy and digital social media? Through a survey of answers to these questions in the history of Western philosophy from the Ancient Greeks to contemporary thinkers, students in this course will be asked to think critically about the significance of difference to their relationship with others and their experience of their horizons. Enrollment Limit: 30.00 Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies 2750 001 1.0 Qrescent Mali Mason M W 2:30PM 3:55PM UNMAC 8								
PHIL	H243A	Twentieth-Century Continental Philosophy								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
					An introduction to continental philosophy during the 20th century, with a focus on the existential branch. We will explore the question, "How does the philosophy of existence pose challenges to our understandings of our selves?" Prerequisite(s): 100-level philosophy course or instructor permission. Attributes: A: Meaning, Interpretation (Texts) Humanities					
		2559	001	1.0	Qrescent Mali Mason	M W	11:30AM	12:55PM	UN111	10
PHIL	H254A	Metaphysics: Global Ontology A critical examination of philosophical accounts of reality and being. Special attention is given to how world views are formed and transformed: an ontological exploration of diverse alternative categorical frameworks for experience. Metaphysical narratives of diverse thinkers in the evolution of the European tradition are explored in global context. Heraclitus, Plato, Aristotle, Descartes, Spinoza, Kant, Heidegger, Whitehead...and other ontologists are explored. A course in Global Philosophy, not for major or minor credit. Enrollment Limit: 30 Attributes: A: Meaning, Interpretation (Texts) Humanities								
		2560	001	1.0	Ashok K Gangadean	T Th	11:30AM	12:55PM	GST101	30
PHIL	H259A	Structuralism and Post-Structuralism An introduction to key readings in 20th century continental philosophy in the areas of semiotics, critical theory, and deconstruction. Of primary importance will be issues of language, meaning, and representation. Readings include Barthes, Althusser, Foucault, Derrida, Kristeva, and Jameson. Pre-requisites:one 100-level Philosophy course and Sophomore, Junior or Senior standing. Attributes: A: Meaning, Interpretation (Texts) Humanities								
		2561	001	1.0	Jerry Miller	M W	1:00PM	2:25PM	HLL106	14
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								
		2562	001	1.0	Joel Yurdin	T Th	1:00PM	2:25PM		7
PHIL	H262A	Women and Philosophy in the Early Modern Era Women played an important yet often neglected role in the development of early modern philosophical thought. Despite social barriers, they remained at the center of philosophical conversations by writing influential letters and publishing philosophical novels, plays, and poems, in addition to more standard philosophical genres. This course seeks to revive women's voices from 17th-19th century European philosophy. We will cover various topics (mind/body, education, happiness), with a special focus on early modern feminism. Pre-requisite(s): One 100-level course in Philosophy Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies Humanities								
		2652	001	1.0	Charles Goldhaber	T Th	11:30AM	12:55PM	UN114	6
PHIL	H335A	Topics in Modern European Philosophy: Kant A close reading of key texts by Kant, Jacobi, Fichte, Schelling, and Hegel. Topics include: skepticism and the limits of knowledge; the relationship between theoretical and practical reason; idealist conceptions of freedom and determinism; the possibility of metaphysics after Kant; the nature of evil; the logic of finitude; and the philosophy of nature. Prerequisite(s): One 200-level course in Philosophy or instructor approval. Attributes: A: Meaning, Interpretation (Texts) Humanities								
		2588	001	1.0	Charles Goldhaber	T Th	2:30PM	3:55PM	HLL6	18
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								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
					movements as ethical genealogies, that is, as historical transfers of value (economic, social, dispositional) that configure recognition of our embodied selves. <i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i>					
		2564	001	1.0	Jerry Miller	M W	2:30PM	3:55PM	HLL106	5
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. <i>Attributes: Humanities</i>					
		1390	001	1.0	Danielle Macbeth	F	1:30PM	3:55PM	VCAM102	7
PHIL	H407A				Discussion Leaders <i>Attributes: Humanities</i>					
		2565	001	.5	Joel Yurdin	T Th	10:00AM	11:25AM		0
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 <i>Attributes: C: Physical and Natural Processes Natural Science Quantitative</i>					
		1304	001	1.0	Kazi Tawhid-Al-Islam	M W F	11:30AM	12:25PM	SHAAUD	32
		1308	00A	.0	Suzanne Amador Kane	T	1:30PM	3:55PM	HLS105	8
		1309	00B	.0	TBA Department staff	W	1:30PM	3:55PM	HLS105	19
		1310	00C	.0	TBA Department staff	Th	1:30PM	3:55PM	HLS105	5
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 118 or equivalent (MATH 118 may be taken concurrently) Enrollment Limit: 72 <i>Attributes: C: Physical and Natural Processes Natural Science Quantitative</i>					
		1305	001	1.0	Islam Khan	M W F	11:30AM	12:25PM	HLS108	20
		1311	00A	.0	Suzanne Amador Kane	T	1:30PM	3:55PM	HLS105	6
		1312	00B	.0	Suzanne Amador Kane	W	1:30PM	3:55PM	HLS105	11
		1313	00C	.0	Suzanne Amador Kane	Th	1:30PM	3:55PM	HLS105	3
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 <i>Attributes: C: Physical and Natural Processes Natural Science Quantitative</i>					
		1327	001	1.0	Monica Ripp	M W F	11:30AM	12:25PM	OBS	2
		1529	00A	.0	Suzanne Amador Kane	T	1:30PM	3:55PM	HLS105	2
		1530	00B	.0	Suzanne Amador Kane	W	1:30PM	3:55PM	HLS105	0
		1531	00C	.0	Suzanne Amador Kane	Th	1:30PM	3:55PM	HLS105	0
PHYS	H211F				Laboratory in Electronics, Waves and Optics					

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
<p>The first half of this laboratory is an introduction to analog electronics and instrumentation. The second half includes experiments in waves and optics.</p> <p>Prerequisite(s): PHYS H213 must either be taken concurrently or as a prerequisite</p> <p>Enrollment Limit: 16</p> <p>Lottery Preference(s):</p> <ol style="list-style-type: none">1. Physics, astrophysics or astronomy majors2. Sophomores3. Physics & astronomy minors4. First-years <p>Attributes: Biophysics C: Physical and Natural Processes Natural Science</p>										
	1353	001	.5	Suzanne Amador Kane		W	1:30PM	3:55PM	HLS206	15
	1354	002	.5	Kazi Tawhid-Al-Islam		Th	1:30PM	3:55PM	HLS206	12
PHYS	H213A	Waves and Optics <p>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.</p> <p>Prerequisite(s): PHYS H106 and MATH H118 or equivalent</p> <p>Enrollment Limit: 30</p> <p>Lottery Preference(s):</p> <ol style="list-style-type: none">1. Physics, astrophysics or astronomy majors2. Sophomores3. Physics & astronomy minors4. First-years <p>Attributes: Biophysics C: Physical and Natural Processes Natural Science Quantitative</p>								
	1306	001	1.0	Andrea N. Lommen		M W	10:00AM	11:25AM	OBS	26
PHYS	H303A	Statistical Physics <p>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.</p> <p>Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306</p> <p>Enrollment Limit: 30</p> <p>Attributes: Biophysics C: Physical and Natural Processes Natural Science</p>								
	2517	001	1.0	Karen L. Masters		M W F	9:30AM	10:25AM	HLS108	34
PHYS	H325A	Advanced Topics in Theoretical Physics <p>An introductory course in general relativity with an emphasis on physical principles and geodesics in curved spacetime. Topics include special relativity, the calculus of variations, metrics, tensors, parallel transport, covariant derivatives, geodesics, the equivalence principle, gravitational redshift, the static weak-field metric, the Schwarzschild metric describing spacetime outside of a black holes or star, the precession of planetary orbits and the bending of light by massive objects. Additional topics may include applications to rotating black holes, gravitational waves, cosmology, or Hawking radiation. Prerequisites: Phys H213 or PHYS B205 and B207.</p> <p>Attributes: C: Physical and Natural Processes Natural Science</p>								
	2623	001	1.0	Daniel Grin		T Th	1:00PM	2:25PM	HLS109	18
PHYS	H326A	Advanced Physics Laboratory <p>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.</p> <p>Prerequisite(s): PHYS H301, PHYS 214 and either PHYS H213 or PHYS B306</p>								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
Enrollment Limit: 14 Lottery Preference(s): 1. Physics, astrophysics & astronomy majors 2. Physics & astronomy minors Attributes: C: Physical and Natural Processes Natural Science 1315 001 1.0 Paul Thorman M F 1:15PM 3:55PM HLS106 0										
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. 2552 001 .5 2								
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 1307 001 .5 Daniel Grin W 1:30PM 3:55PM HLS109 19								
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 1298 001 1.0 Andrea N. Lommen 0 1299 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 1302 001 .5 Andrea N. Lommen 0 1303 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 1314 001 1.0 Theodore A. Brzinski 0 2770 002 1.0 Kazi Tawhid-Al-Islam 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								

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<i>Attributes: Natural Science</i>										
		1321	001	.5	Theodore A. Brzinski					0
		2771	002	.5	Kazi Tawhid-Al-Islam					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.								
		Prerequisite(s): Instructor consent								
		Enrollment Limit: 3								
		1316	001	1.0	Daniel Grin					0
		2772	002	1.0	Islam Khan					0
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								
		1322	001	.5	Daniel Grin					0
		2773	002	.5	Islam Khan					0
PHYS	H413A	Research in Biological Physics								
		Experimental & computational research applying physics to problems in biomechanics, animal behavior & sensory ecology.								
		Prerequisite(s): Instructor consent								
		Enrollment Limit: 6								
		1317	001	1.0	Suzanne Amador Kane					0
		2779	002	1.0	Vianney Gimenez-Pinto					0
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								
		1326	001	.5	Suzanne Amador Kane					0
		2780	002	.5	Vianney Gimenez-Pinto					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								
		Enrollment Limit: 5								
		<i>Attributes: Natural Science</i>								
		1318	001	1.0	Walter F. Smith					0
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								
		<i>Attributes: Natural Science</i>								
		1319	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.								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
	Attributes: Natural Science									
	1320	001	1.0	TBA Department staff						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									
	Attributes: Natural Science									
	1325	001	1.0	TBA Department staff						1
	1558	002	1.0	TBA Department staff						0
PHYS	H480F	Independent Study								
	1538	001	.5	TBA Department staff						0
	1800	002	.5	TBA Department staff						0
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									
	1172	001	1.0	Zachary W. Oberfield	T Th	10:00AM	11:25AM	HLL7	33	
POLS	H151A	International Politics								
	This course offers an introduction to the study of international politics. It considers examples from history and addresses contemporary issues, while introducing and evaluating the political theories that have been used by scholars to explain those events. The principal goal of the course is to develop a general set of analytical approaches that can be used to gain insight into the nature of world politics - past, present and future.									
	Enrollment Limit: 40									
	Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science									
	2348	001	1.0	Barak Mendelsohn	T Th	11:30AM	12:55PM	HLS109	7	
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: B: Analysis of the Social World Social Science									
	1456	001	1.0	Thomas J. Donahue	T Th	2:30PM	3:55PM	HLL7	17	
POLS	H215A	Constitutional Law and Civil Rights: Gender, Sexuality, and Race								
	This course will provide an overview of constitutional law and its effects on civil rights, with a particular emphasis on gender, sexual orientation, and race.									
	Prerequisite(s): One course in political science or consent of the instructor									
	Enrollment Limit: 20									
	Lottery Preference(s): Political Science Majors									
	Attributes: B: Analysis of the Social World Social Science									
	2354	001	1.0	Gemma Eve Donofrio	T	1:30PM	3:55PM		20	
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.									

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Enrollment Limit: 35										
Attributes: B: Analysis of the Social World Social Science										
	2350	001	1.0	Stephen J. McGovern		M W	10:00AM	11:25AM	GST101	28
POLS	H231A	Populism and the Crisis of Democracy: A Comparative Perspective								
Populism is a global trend observed in diverse countries like Turkey, Poland, India, and the US. This course adopts a global and comparative perspective to analyze populism's historical, political, economic, and cultural contexts. It explores different theories, including ideational, strategic, and performative understandings of populism. Additionally, it examines various factors influencing populism's emergence, its relationship with democracy, political systems, and popular movements. The course concludes by applying these concepts to regional and country case studies.										
Pre-requisite(s): One political science course or consent of instructor.										
Lottery Preference: Political Science Majors										
Enrollment Limit: 25.00										
Attributes: B: Analysis of the Social World Social Science										
	2840	001	1.0	Yonca Ozdemir		T Th	10:00AM	11:25AM		0
POLS	H235A	African Politics								
Analysis of political change in Africa from the colonial period to contemporary politics. Selected case studies will be used to address central themes including democracy, human rights, gender, interstate relations, economic development, and globalization.										
Prerequisite(s): one course in political science or consent of the instructor.										
Enrollment Limit: 25										
Attributes: Africana Studies B: Analysis of the Social World Gender and Sexuality Studies Social Science										
	2353	001	1.0	Susanna Wing		T Th	10:00AM	11:25AM	HLL106	15
POLS	H264A	International Organizations								
An introduction to the wide range of international institutions that structure international relations such as the UN, ICC, UNHCR, UNDP, EU, African Union, WTO, IMF, World Bank, and NGOs. The course explores the following questions: What are these international organizations (IOs)? Why do states establish IOs? Can IOs change states' behaviors? How effective are IOs? How do they challenge states? The course will survey the field, first focusing on recent developments in IO theory and relevant debates, and then covering a range of substantive issue areas such as security, human rights, refugees, trade, investment, climate, and so on. Case studies will be used to illustrate real-world examples and enhance understanding of key concepts.										
Pre-requisite(s): One political science course or consent of the instructor.										
Lottery Preference: Political Science majors and minors.										
Enrollment Limit: 25.00										
Attributes: B: Analysis of the Social World Social Science										
	2841	001	1.0	Yonca Ozdemir		M W	10:00AM	11:25AM		0
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: 20										
Lottery Preference(s): Senior majors, junior majors, sophomores										
Attributes: B: Analysis of the Social World Quantitative Social Science										
	1169	001	1.0	Jack Commins Hart		M	7:30PM	9:55PM		19
				Hasler						
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										

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					<p>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.</p> <p>Crosslisted: Independent College Programs, Political Science</p> <p>Enrollment Limit: 15</p> <p>Lottery Preference(s): Returning CPGC Interns</p> <p>Attributes: B: Analysis of the Social World Peace, Justice and Human Rights Social Justice Social Science</p>					
		1173	001	1.0	Thomas J. Donahue	W	1:30PM	3:55PM	STO104	12
POLS	H315A	<p>Research in American Politics</p> <p>This course helps students prepare for a senior thesis in political science. Specifically, it assists students in choosing a topic, developing a literature review and hypothesis, and generating a research design to test their hypothesis.</p> <p>Prerequisite(s): Junior or senior standing or instructor consent</p> <p>Enrollment Limit: 15</p> <p>Attributes: B: Analysis of the Social World Social Science</p>								
		1163	001	1.0	Zachary W. Oberfield	T	1:30PM	3:55PM	HLL112	6
POLS	H318A	<p>Contemporary Political Ideas amid Global Transformations</p> <p>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.</p> <p>Enrollment Limit: 15</p> <p>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Social Science</p>								
		1165	001	1.0	Paulina Ochoa Espejo	M	1:30PM	3:55PM	VCAM102	9
POLS	H320A	<p>Democracy in America</p> <p>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.</p> <p>Enrollment Limit: 15</p> <p>Attributes: B: Analysis of the Social World Social Science</p>								
		1164	001	1.0	Stephen J. McGovern	M	1:30PM	3:55PM	GST102	9
POLS	H330A	<p>Topics in Comparative Politics</p> <p>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.</p> <p>Prerequisite(s): Three courses in POLS AND junior or senior status, or instructor consent</p> <p>Enrollment Limit: 15</p> <p>Lottery Preference(s): Senior POLS majors, then junior POLS majors, then seniors, then juniors</p> <p>Attributes: B: Analysis of the Social World Latin American, Iberian, and Latinx Studies Social Science</p>								
		2349	001	1.0	Susanna Wing	T	1:30PM	3:55PM	LUT211	6
POLS	H331A	<p>Research and Writing in Comparative Politics</p> <p>This seminar on research and writing in comparative politics seeks to foster advanced reading, analysis, writing and workshoping skills among advanced political science majors</p> <p>Prerequisite(s): 5 courses in political science at the introductory and intermediate levels</p> <p>Enrollment Limit: 15</p> <p>Lottery Preference(s): Political Science Seniors, then Political Science Juniors</p> <p>Attributes: B: Analysis of the Social World Social Science</p>								
		1171	001	1.0	Anita Julie Isaacs					5
POLS	H332A	<p>Short of War: Deterrence and Compellence in International Politics</p> <p>The course examines the way international relations' theory addresses policies short of war, particularly the security policies states use to promote their political and strategic objectives, to dissuade rivals from attacking, to manage crisis situations, and to promote peaceful resolution to interstate conflicts.</p>								

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<p>Prerequisite(s): One political science course or instructor permission Enrollment Limit: 15 Lottery Preference(s): Political science majors Attributes: B: Analysis of the Social World Social Science</p>										
	2352	001	1.0	Barak Mendelsohn		Th	1:30PM	3:55PM	HLL112	15
POLS	H460A	Teaching Assistant Teaching assistant. Prerequisite(s): Instructor consent Attributes: Social Science								
	1174	001	1.0	Zachary W. Oberfield						4
	1511	002	1.0							1
	1535	003	1.0							1
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								
	1170	001	1.0							0
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): Students with AP Psychology credit from high school (and a score of 4 or 5 on the AP exam) have the option to waive the Foundations course and enroll in upper-level courses; this should be done only after consultation with a faculty member in the Psychology Department. Students are welcome to take PSYCH 100 even if they have AP Psychology credit from high school (and a score of 4 or 5 on the AP exam). Enrollment Limit: 35 Lottery Preference(s): 25 spaces reserved for incoming freshmen. Then priority as follows: freshmen, sophomores, juniors, seniors Attributes: B: Analysis of the Social World Social Science								
	1178	001	1.0	Jonathan Schacherer		M W	10:00AM	11:25AM	CHS101	13
	1179	002	1.0	TBA Department staff		T Th	10:00AM	11:25AM	SHA410	26
	2753	003	1.0	TBA Department staff		T Th	1:00PM	2:25PM	SHA410	6
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: 35 Lottery preference(s): (1) Psychology majors, (2) Neuroscience majors, sophomores, (3) seniors, (4) juniors, (5) first-year students Attributes: B: Analysis of the Social World Quantitative Social Science								
	1182	001	1.0	Laura E. Been		T Th	10:00AM	11:25AM	HLS109	37
	1636	00A	.0	Mikayla Rose Carson		W	11:30AM	12:55PM	STO4	19
	1637	00B	.0	Mikayla Rose Carson		W	2:30PM	3:55PM	STO4	18
PSYC	H210A	Developmental Psychology								

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					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					
		2595	001	1.0	Ryan Lei	M W	10:00AM	11:25AM	SHAAUD	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: B: Analysis of the Social World Child and Family Studies Social Science								
		1188	001	1.0	Jennifer L Lilgendahl	T Th	11:30AM	12:55PM	SHA410	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, NEUR H100, Psychology AP Score 4 Enrollment Limit: 35 Lottery Preference(s): 1) Psych majors, neuroscience majors, and neuroscience minors, 2) sophomores, 3) other juniors and seniors Attributes: B: Analysis of the Social World C: Physical and Natural Processes Natural Science Neuroscience								
		2736	001	1.0	Samantha Fortin	T Th	10:00AM	11:25AM	FDR220	15
PSYC	H236A	Introduction to Behavioral Economics This course explores how observations of human psychology has influenced our understanding of economic thinking and decision-making. Students will reinforce and expand their understanding of classical economic models, and learn to work with new models incorporating insights from the field of psychology. Course assignments include problem sets, as well as work with real world data sets and academic writing. Crosslisted: PSYC. Pre-requisite(s): Economics 104 or 105, or equivalent Enrollment Limit: 25 Attributes: B: Analysis of the Social World Social Science								
		2546	001	1.0	David M. Owens	M W	11:30AM	12:55PM	FDR220	8
PSYC	H305F	Communicating Psychological Science The forms of communication in psychological science, including writing funding requests, research proposals, empirical research reports, research reviews, and peer review, are covered. Oral presentation of research will be emphasized, and science journalism and academic blogging will be explored. Prerequisite(s): PSYC 200 and at least one additional 200-level Psychology course. Enrollment Limit: 15 Lottery Preference(s):								

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1. Junior Psychology majors/minors 2. Senior Psychology majors/minors <i>Attributes: B: Analysis of the Social World Social Science</i>										
	2599	001	.5	Alexander LaTourrette		W	2:30PM	3:55PM		15
	2907	002	.5	Alexander LaTourrette		Th	11:30AM	12:55PM		0
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 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. <i>Attributes: B: Analysis of the Social World Social Science</i>								
	1190	001	.5	Jennifer L Lilgendahl		W	11:30AM	12:55PM	HLS12	16
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. <i>Attributes: C: Physical and Natural Processes Gender and Sexuality Studies Natural Science Neuroscience</i>								
	2596	001	1.0	Laura E. Been		T Th	1:00PM	2:25PM	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): Senior PSYC majors, Senior ASAM minors, Senior Psych minors, Junior PSYC majors, Junior ASAM minors, Junior Psych minors, then class year (seniors, juniors, etc). <i>Attributes: Asian American Studies B: Analysis of the Social World Social Science</i>								
	2597	001	1.0	Shu-wen Wong		M	1:30PM	3:55PM	SHA416	15
PSYC	H348A	Language and Thought This class will provide an advanced overview of language's role in cognition, asking whether the language(s) we speak affect the way we think. For instance, we will consider how languages might—or might not—affect the way we perceive colors, categorize events, understand emotions, and reason abstractly. We will also examine interactions and dissociations between language and cognition across varied populations including multilingual speakers, adults with aphasia, prelinguistic infants, non-human animals, and artificial intelligences. Pre-requisite(s): Psych 100 required; and any 200-level Psychology course or by instructor consent. Lottery Preference: Senior Psychology majors, Junior Psychology majors, Senior Psychology minors, Junior Psychology minors, Linguistics majors and minors, all else by seniority. Enrollment Limit: 12.00 <i>Attributes: B: Analysis of the Social World Social Science</i>								
	2653	001	1.0	Alexander LaTourrette		T Th	2:30PM	3:55PM	SHA416	12
PSYC	H358A	Neuropsychology Seminar								

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<p>This course will provide comprehensive coverage of the principles of human neuropsychology-how the neurological organization of the brain influences the way people think, feel, and act. Topics include foundations (e.g., history, methods, approaches), major functional systems (e.g., vision, memory, executive functions, spatial processing), and applications (e.g., experimental, clinical).</p> <p>Pre-requisite(s): One of the following: NEURO 100, PSYC H217/B218, PSYC 260</p> <p>Lottery Preference: Senior psychology majors, Junior psychology majors, Senior and Junior neuroscience majors, Psychology minors by class year, Neuroscience minors by class year, all else by class year.</p> <p>Enrollment Limit: 12.00</p> <p>Attributes: B: Analysis of the Social World C: Physical and Natural Processes Neuroscience Social Science</p>										
		2842	001	1.0	Jonathan Schacherer	M W	2:30PM	3:55PM	LNKL205	0
PSYC	H361A	<p>Communication Disorders Seminar</p> <p>What are communication disorders? What are the characteristics of these disorders? What can different communication disorders tell us about normal speech and language processing? In this course, students will learn about common disorders that affect communication throughout the lifespan, including developmental, acquired, and neurogenic communication disorders in the speech, language, and hearing domains. We will draw on empirical studies and theoretical reviews to examine potential causes and underlying mechanisms of different disorders.</p> <p>Pre-requisite(s): PSYC100 Foundations of Psychology, PSYC200 Research Methods and Statistics, and one additional 200-level Psychology or any 100-level Linguistics course</p> <p>Lottery Preference: Senior psychology majors, Junior psychology majors, Senior psychology minors, Junior psychology minors, Linguistics majors and minors, all others by class year.</p> <p>Enrollment Limit: 12.00</p> <p>Attributes: B: Analysis of the Social World Social Science</p>								
		2843	001	1.0	Peiyao Chen	M W	10:00AM	11:25AM	SHA416	0
PSYC	H362A	<p>Developmental Behavioral Neuroscience</p> <p>Developmental Behavioral Neuroscience is a broadly defined branch of psychology that seeks to understand how individuals develop behaviorally, both from a biological and comparative perspective. Topics include development of sensory, motivational, and cognitive processes and social-emotional development.</p> <p>Prerequisite(s): HC Psych 217 or BMC Psych 218 or HC Psych 260</p> <p>Enrollment Limit: 12</p> <p>Lottery Preference(s): 1. Senior Psyc and Neuro majors 2. Senior Psyc and Neuro minors 3. Junior Psyc and Neuro majors 4. Junior Psyc and Neuro minors</p> <p>Attributes: C: Physical and Natural Processes Natural Science Neuroscience</p>								
		1638	001	1.0	Patrese Robinson-Drummer	M	1:30PM	3:55PM	ESTW115	12
PSYC	H390A	<p>Senior Thesis</p> <p>Open to senior psychology majors doing a one semester thesis in current semester.</p> <p>Enrollment Limit: 10</p> <p>Attributes: Social Science</p>								
		1180	001	1.0	Shu-wen Wong	F	1:30PM	3:55PM	SHA410	4
PSYC	H392A	<p>Senior Research Tutorial in Personality</p> <p>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.</p> <p>Enrollment Limit: 10</p> <p>Attributes: Social Science</p>								
		1185	001	1.0	Jennifer L Lilgendahl	F	1:30PM	3:55PM	SHA410	1
PSYC	H393A	<p>Senior Research Tutorial in Social Psychology</p> <p>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.</p>								

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					Enrollment Limit: 10 Attributes: Social Science					
		1206	001	1.0	Benjamin Le	F	1:30PM	3:55PM	SHA410	0
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					
		1176	001	1.0	Laura E. Been	F	1:30PM	3:55PM	SHA416	3
		2598	002	1.0	Patrese Robinson-Drummer	F	1:30PM	3:55PM	SHA410	3
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					
		1177	001	1.0	Rebecca Compton	F	1:30PM	3:55PM	SHA410	2
PSYC	H397A				Senior Research Tutorial in Developmental Psychology Open to Senior Psychology Majors Attributes: Social Science					
		1785	001	1.0	Ryan Lei	F	1:30PM	3:55PM	SHA410	4
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					
		1187	001	1.0	TBA Department staff	F	1:30PM	3:55PM	SHA410	3
PSYC	H480A				Independent Study This course involves independent research under the supervision of a faculty member and requires faculty invitation and approval. Enrollment Limit: 10 Attributes: Social Science					
		1557	001	1.0	TBA Department staff					0
PSYC	H480F				Independent Study This course involves independent research under the supervision of a faculty member and requires faculty invitation and approval. Enrollment Limit: 10 Attributes: Social Science					
		1540	001	.5	TBA Department staff					0
		1544	002	.5	TBA Department staff					0
RELG	H101A				Introduction to the Study of Religion An introduction to the study of religion from multiple perspectives: overviews of several religions with classroom discussion of primary sources; cross-cultural features common to many religions; theories of religion and approaches to its study and interpretation. Enrollment Limit: 50 Attributes: A: Meaning, Interpretation (Texts) Humanities					
		1650	001	1.0	Molly Farneth	M W	11:30AM	12:55PM	STO131	23

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
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. Enrollment Limit: 20 Lottery Preference(s): 10 spaces reserved for first-year students Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities Middle Eastern & Islamic Studies								
	1343	001	1.0	Anne Marie McGuire		M W	10:00AM	11:25AM	HLL106	13
RELG	H116A	Ethical Struggles in Catastrophic Times: Quakers' Responses to the Holocaust In the 1930s and 1940s, Quakers engaged in a number of remarkable—and controversial—activities that were intended to provide assistance to people who were being persecuted by the Nazis. Those actions were criticized by some US citizens (who thought that Quakers were giving unwitting aid to the Nazis) and also derided by Nazis such as Joseph Goebbels (who thought that Quakers were demonstrating a complete lack of awareness about how the world really works.) Nevertheless, Quakers' actions did end up saving some lives. Students in this course will examine what Quakers accomplished—and failed to accomplish—in the 1930s and 1940s. The course is not designed as a venue in which to decide, once and for all, which of the Quakers' actions were wise and which were foolish. The course is meant, rather, to offer students an opportunity to reflect on the ethical questions with which Quakers wrestled and an invitation to compare those questions with the ones they face themselves. Crosslisted: Independent College Programs; Religion; Peace, Justice and Human Rights Enrollment Limit: 15 Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities Peace, Justice and Human Rights								
	2769	001	1.0	David Harrington Watt		T Th	1:00PM	2:25PM	LUT230	1
RELG	H131A	The Lure of Images: Religion and Visual Media This course examines representations from figural forms to abstractions, found objects and beautiful writing to understand the power of sacred imagery. We will examine formats from medieval manuscripts and painted walls to films, panoramas and comic books to observe the dynamics that emerge among viewers and images in spatial contexts ranging from altar pieces, sculpture, stained glass and painting in neo-Gothic churches, calligraphy in mosque and shrine interiors, deity icons in Hindu temples and potent fabrics in Buddhist monastic complexes. Crosslisted: VIST. Enrollment Limit: 35.00 Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies								
	2655	001	1.0	Pika Ghosh		T Th	10:00AM	11:25AM	UNMAC	16
RELG	H221A	Women and Gender in Early Christianity An examination of the representations of women and gender in early Christian texts and their significance for contemporary Christianity. Topics include interpretations of Genesis 1-3, images of women and sexuality in early Christian literature, and the roles of women in various Christian communities. Enrollment Limit: 20 Attributes: Gender and Sexuality Studies Humanities								
	2574	001	1.0	Anne Marie McGuire		T Th	10:00AM	11:25AM	GST101	13
RELG	H230A	Religion and Black Freedom Struggle This course will examine the background for and the key events, figures, philosophies, tactics, and consequences of the modern black freedom struggle in United States. The period from 1955-1965 will receive special attention, but the roots of the freedom struggle and the effect on recent American political, social, and cultural history will also be considered. Enrollment Limit: 25 Lottery Preference(s): Majors have priority by seniority Attributes: Africana Studies B: Analysis of the Social World Humanities Peace, Justice and Human Rights								
	2542	001	1.0	Terrance Wiley		T Th	8:30AM	9:55AM		5
RELG	H240A	History and Principles of Quakerism								

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					<p>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.</p> <p>Crosslisted: Religion, History</p> <p>Enrollment Limit: 35</p> <p>Attributes: B: Analysis of the Social World Social Science</p>					
		2821	001	1.0	Emma Lapsansky	T Th	1:00PM	2:25PM	STO205	0
RELG	H299A	<p>Theoretical Perspectives in the Study of Religion</p> <p>An introduction to theories of the nature and function of religion from theological, philosophical, psychological, anthropological, and sociological perspectives. Readings may include: Schleiermacher, Marx, Nietzsche, Freud, Tylor, Durkheim, Weber, James, Otto, Benjamin, Eliade, Geertz, Foucault, Douglas, Smith, Berger, Haraway.</p> <p>Enrollment Limit: 15</p> <p>Lottery Preference(s): Senior majors/minors, then Junior majors/minors</p> <p>Attributes: A: Meaning, Interpretation (Texts) Humanities</p>								
		1342	001	1.0	Molly Farneth	T Th	11:30AM	12:55PM		15
RELG	H303A	<p>Religion, Literature and Representation: Images of Krishna</p> <p>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.</p> <p>Enrollment Limit: 15</p> <p>Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies Humanities Visual Studies</p>								
		2541	001	1.0	Pika Ghosh	T Th	1:00PM	2:25PM		3
RELG	H319A	<p>Black Queer Saints: Sex, Gender, Race, Class and the Quest for Liberation</p> <p>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.</p> <p>Crosslisted: Africana Studies, Religion</p> <p>Prerequisite(s): 200-level Humanities course, or instructor consent</p> <p>Enrollment Limit: 15</p> <p>Attributes: A: Meaning, Interpretation (Texts) Africana Studies B: Analysis of the Social World Gender and Sexuality Studies Humanities</p>								
		2540	001	1.0	Terrance Wiley	M	7:30PM	9:55PM	UN111	15
RELG	H343A	<p>Seminar in Religions in Late Antiquity</p> <p>This seminar will focus on the historical origins and origin myths of Judaism, Christianity, and Islam from within the cultural matrix of late ancient Greco-Roman, Byzantine, and Persian imperial socio-politics. We will stress the interrelationships of these religions as they develop between the 1st to 8th centuries CE.</p> <p>Prerequisites: one course in Religion or Classics.</p> <p>Enrollment Limit: 15</p> <p>Attributes: A: Meaning, Interpretation (Texts) Humanities</p>								
		1657	001	1.0	Naomi Koltun-Fromm	W	1:30PM	3:55PM	HLL112	5
RELG	H398A	<p>Senior Thesis Seminar Part 1</p> <p>A practical methodology course which prepares senior Religion majors to write their senior theses.</p> <p>Enrollment Limit: 25</p> <p>Lottery Preference(s): Open to Senior Religion majors only</p> <p>Attributes: Humanities</p>								
		1339	001	1.0	Pika Ghosh	M	12:00PM	2:25PM	GST103	2
RELG	H460A	<p>Teaching Assistant</p> <p>Teaching Assistant</p> <p>Enrollment Limit: 5</p>								

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<i>Attributes: Humanities</i>										
		1524	001	1.0	TBA Department staff					1
RELG	H480A	Independent Study								
		Independent Study								
		Enrollment Limit: 5								
		1340	001	1.0						0
		1341	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.								
		<i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i>								
		1509	001	1.5	Jane Robin Shaw	M T W Th F	2:30PM	3:25PM	STO205	0
RUSS	H356A	Topics European History:The Russian Revolutionary Movement								
		the Russian Intelligentsia (from the Decembrists in 1825 to Dissidents in the 1970s.) Readings in primary sources (Herzen's memoir, Dostoevsky's novels, prison memoirs of Populist Terrorists, the Marxist underground and the SR terrorists 1900-1917, civil war resisters, resisters to Stalinism, the dissidents in the 1960s and 70s.								
		<i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Social Science</i>								
		2704	001	1.0	Linda Gerstein	Th	1:30PM	3:55PM	HLL201	0
SOCL	H106A	Gender, Power, and Policy								
		The primary objective of this first-year seminar is to explore the social construction of gender and violence in the US. Gendered issues of conduct we will focus our attention on this semester include abortion, sexual discrimination in the workplace, rape or sexual assault, and domestic violence.								
		Lottery Preference: First-year and sophomore students have priority over juniors and seniors.								
		Enrollment Limit: 25.00								
		<i>Attributes: B: Analysis of the Social World Gender and Sexuality Studies Social Science</i>								
		2658	001	1.0	Marla Kohlman	M W	11:30AM	12:55PM		12
SOCL	H155A	Foundations in Social Theory								
		This seminar provides an introduction to sociology, to the doing of sociology, through an examination of selected major 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. There is some variation between different sections of the course.								
		Enrollment Limit: 22								
		Lottery Preference(s): Sociology Majors, Sociology Minors, First years, Sophomores, Juniors, Seniors.								
		Section 001 with McKeever will highlight works by Marx, Weber, Polanyi, and Durkheim.								
		<i>Attributes: B: Analysis of the Social World Social Science</i>								
		1227	001	1.0	Matthew McKeever	M W	10:00AM	11:25AM	HLL112	12
		1228	002	1.0	Elise Herrala	T Th	11:30AM	12:55PM	HLL7	10
SOCL	H217A	Qualitative Research Methods								
		This course examines and provides basic training in qualitative methods used in sociological research, including the application and conceptualization of theory, research design, sampling, strategies for framing research and interview questions, and data coding and analysis.								
		Prerequisite(s): SOCL 155A or SOCL 155B, or instructor consent								
		<i>Attributes: B: Analysis of the Social World Health Studies Social Science</i>								
		1643	001	1.0	Elise Herrala	T Th	1:00PM	2:25PM	HLL7	4
SOCL	H270A	Measuring Education								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
					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, Education Enrollment Limit: 25 Lottery Preferences: Haverford Sociology majors, Haverford Sociology minors, Education Studies majors, Education Studies minors. Attributes: B: Analysis of the Social World Social Science					
		1935	001	1.0	Matthew McKeever	M	1:30PM	3:55PM	HLL107	11
SOCL	H330A	Intersectional Theory This seminar explores the theoretical paradigm of intersectionality. Its principal objective is to develop an understanding of the ways in which the salient identities of master status; such as class position, race, or gender, function simultaneously to produce the outcomes we observe in the lives of individuals and within societal institutions. Each week, students will read and critically engage with scholars who have purposefully sought to model and analyze key concepts in conflict theory through the lens of intersection theory, and by studying the roles of class, gender, and race/ethnicity at the level of the global economy today as in the past. Pre-requisite(s): Sociology 155, or permission of instructor Enrollment Limit: 15 Attributes: B: Analysis of the Social World								
		2438	001	1.0	Marla Kohlman	T	1:30PM	3:55PM		4
SOCL	H450A	Senior Departmental Studies Thesis work, two semesters required of majors in their senior year. Attributes: Social Science								
		1230	001	1.0	Matthew McKeever					2
		1231	002	1.0	Marla Kohlman					2
		1233	003	1.0	Elise Herrala					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.								
		1229	001	1.0						0
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								
		1232	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 This section is reserved for True Beginners. Attributes: A: Meaning, Interpretation (Texts) Humanities								
		1444	001	1.0	Catherine Schroeder	M W F	9:30AM	10:25AM	HLL6	1
		1445	002	1.0	Catherine Schroeder	M W F	10:30AM	11:25AM	HLL6	16
		1446	003	1.0	Ariana Huberman	M W F	11:30AM	12:25PM	HLL6	10
SPAN	H100A	Basic Intermediate Spanish								

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<p>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: A: Meaning, Interpretation (Texts) Humanities</p>										
	1447	001	1.0	Aurelia Gómez De Unamuno		T Th	10:00AM	11:25AM	STO102	8
	1448	002	1.0	Gloria Lopez-Pesini		T Th	11:30AM	12:55PM		10
	2608	003	1.0	Gloria Lopez-Pesini		T Th	1:00PM	2:25PM		6
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								
	1449	001	1.0	Emily Sterk		M W	11:30AM	12:55PM		2
	1450	002	1.0	Roxanna Colón-Cosme		M W	10:00AM	11:25AM		4
	1452	003	1.0	Roxanna Colón-Cosme		M W	2:30PM	3:55PM		7
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								
	1442	001	1.0	Roberto Castillo Sandoval		T Th	10:00AM	11:25AM		4
	1443	002	1.0	Roberto Castillo Sandoval		T Th	11:30AM	12:55PM		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: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities Latin American, Iberian, and Latinx Studies								
	2609	001	1.0	Ana López-Sánchez		T Th	2:30PM	3:55PM		5
SPAN	H216A	Mapping Iberia: Geocritical approaches to medieval and early modern Iberian narratives This course will introduce the student to Medieval and Early Modern Iberia through the lenses of Geocriticism and space. Students will examine literature, cultural objects, and maps to understand the encounters among the different religious, ethnic, and linguistic groups in the Peninsula and understand the spatial shifts throughout its history. Topics include the fluidity of the political boundaries, the role of the Mediterranean in mercantile networks, urban and rural spaces, public rituals and imperial architectures.								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
<p>Pre-requisite(s): SPAN 102; placement exam Lottery Preference: Majors; minors; LAILS concentrators Enrollment Limit: 25.00 <i>Attributes: A: Meaning, Interpretation (Texts) Humanities Latin American, Iberian, and Latinx Studies</i></p>										
	2715	001	1.0	Roxanna Colón-Cosme		M W	11:30AM	12:55PM		13
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 <i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities Latin American, Iberian, and Latinx Studies</i>								
	2610	001	1.0	Aurelia Gómez De Unamuno		T Th	1:00PM	2:25PM	STO104	20
SPAN	H307A	Creative Fiction and Non-Fiction Writing Workshop A fiction- and creative nonfiction-writing workshop for students with advanced Spanish writing skills. The class is conducted as a combination seminar and workshop, with time devoted to discussion of work by established authors and by students. The course will focus on the development of essential elements of craft and technique in fiction and non-fiction writing (point of view, voice, dialogue, narrative and rhetorical structure, etc.) We will focus more on how fiction and non-fiction stories work rather than on what they mean. This writerly perspective can be useful for reconsidering and judging pieces of writing long accepted as "great," as well as a practical method for developing individual styles. Short fiction, crónicas, personal essays, travel narratives, and memoirs are some of the forms we will work on. At the end of the semester, each student will produce a dossier with four edited, full-length pieces of original writing, consisting of a combination of fiction and non-fiction work. Previous experience in creative writing is recommended, although it is not necessary. Prerequisite(s): At least one 300-level course in Spanish, or instructor consent Enrollment Limit: 12 <i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities Latin American, Iberian, and Latinx Studies</i>								
	2611	001	1.0	Roberto Castillo Sandoval		F	11:00AM	1:25PM		11
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 <i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities Latin American, Iberian, and Latinx Studies</i>								
	2612	001	1.0	Ana López-Sánchez		T Th	11:30AM	12:55PM		17
SPAN	H329A	Feminist Futures: Speculative Fictions of Latin America An exploration of twentieth and twenty-first century feminist science fiction from Latin America and the Caribbean. Through novels, short stories, performances, and films, students will evaluate how the genre of science fiction addresses questions of gender, sexuality, race, class, and colonialism. Students will consider how feminist science fictions (re)imagine gender and sexuality in the future and the progression or regression that awaits.								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
<p>Pre-requisite(s): One 200 level Spanish course Lottery Preference: Majors; minors & LAILS concentrators. Enrollment Limit: 15.00 Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies Humanities Latin American, Iberian, and Latinx Studies</p>										
	2716	001	1.0	Emily Sterk		M W	2:30PM	3:55PM		3
SPAN	H490A	Senior Departmental Studies The course will consist of two one-semester parts. The first, taken in the fall semester, will have the format of a seminar under the supervision of one Spanish department faculty member. Students will also consult with other professors in the department (potential thesis directors). 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 Spanish and Latin American texts; 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 discussed through close readings of selected works of criticism or theory. The second semester will involve the process of writing the thesis under the supervision of individual professors. Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities								
	1451	001	1.0	Ariana Huberman						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 Health Studies Natural Science Quantitative								
	1497	001	1.0	Weiwen Miao		M W	2:30PM	3:55PM	HLS12	12
	1498	00A	.0	Weiwen Miao		F	2:30PM	3:55PM	HLS12	12
STAT	H396A	Advanced Topics in Probability and Statistics: Categorical Data Analysis Various topics in statistics will be covered. Statistical methods for qualitative and counted data. Topics include description and inference for binomial and multinomial data using proportions and odds ratios; multi-way contingency tables; generalized linear models for discrete data, including logistic regression for binary responses and loglinear models for counted data; multi-category logit models for nominal and ordinal responses; and inference for matched-pairs and correlated data. Applications and interpretations of statistical models are emphasized. Crosslisted: Mathematics, Statistics Prerequisite(s): MATH 218. Students who have taken STAT 203 or 286 may take MATH 218 concurrently. Enrollment Limit: 50 Attributes: Natural Science Quantitative								
	2570	001	1.0	Lynne M. Butler		M W	2:30PM	3:55PM	ESTW309	0
VIST	H131A	The Lure of Images: Religion and Visual Media This course examines representations from figural forms to abstractions, found objects and beautiful writing to understand the power of sacred imagery. We will examine formats from medieval manuscripts and painted walls to films, panoramas and comic books to observe the dynamics that emerge among viewers and images in spatial contexts ranging from altar pieces, sculpture, stained glass and painting in neo-Gothic churches, calligraphy in mosque and shrine interiors, deity icons in Hindu temples and potent fabrics in Buddhist monastic complexes. Crosslisted: VIST. Enrollment Limit: 35.00								

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		<i>Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies</i>								
		2656	001	1.0	Pika Ghosh	T Th	10:00AM	11:25AM	UNMAC	1
VIST	H141D	Digital Media Pre-Production								
		This course will teach students the fundamentals of putting together a pre-production package for a digital media production project. This includes: screenwriting; storyboarding; budgets; shot lists; prop lists; and all necessary components for planning a major video project.								
		Enrollment Limit: 15.00								
		<i>Attributes: A: Creative Expression Humanities Visual Studies</i>								
		2693	001	.5	Charles Woodard	M W	2:30PM	3:55PM	VCAM101	7
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								
		<i>Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies</i>								
		1506	001	1.0	John Hancock Muse	T Th	10:00AM	11:25AM	VCAM201	16
VIST	H145E	Some Assembly Required: Designing Objects of Play								
		Emphasizing digital design and remote digital fabrication, this course invites students to think critically about objects of play. What materials are used in toy design? What are the environmental implications of mass production? How can thinking about communities of play help us imagine solutions to problems of isolation?								
		Crosslisted: Independent College Programs, Visual Studies								
		Enrollment Limit: 8								
		<i>Attributes: A: Creative Expression Visual Studies</i>								
		2695	001	.5	David Watson	T Th	10:00AM	11:25AM	VCAM005	9
VIST	H218A	Realtime Interfaces for Creative Expression								
		Realtime Interfaces for Creative Expression is a 200-level course for artists, performers, and computer science students with an interest in developing novel interactive software applications for the creation of digital art, responsive environments, and new media performance. Students will use the graphical programming environment Max to dynamically control, process, and generate digital audio and video content. Assignments will touch upon a number of related disciplines including interactive computer music, algorithmic and generative art, and video synthesis. Prior experience with coding and/or digital art-making is recommended.								
		Pre-requisite(s): None								
		Lottery Preference: VIST Minors								
		Enrollment Limit: 12								
		<i>Attributes: A: Creative Expression C: Physical and Natural Processes Humanities Visual Studies</i>								
		2698	001	1.0	Matthew O'Hare	T Th	11:30AM	12:55PM	VCAM005	8
VIST	H227A	Game Design for Education & Research								
		This course provides students with the tools needed to understand, analyze and build games. During the semester we will take a close look at games and how our understanding of human psychology influences the design of games for education and research. We will consider ways that games teach, and how we learn using games. We will also consider how the current and future technologies that support gaming can improve and maximize learning and performance.								
		Lottery Preference: Visual Studies Minors have preference; reserve 4 slots for first year students.								
		Enrollment Limit: 15.00								
		<i>Attributes: A: Creative Expression Humanities Visual Studies</i>								
		2906	001	1.0	Ronah Harris					0

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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 <i>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities Visual Studies A: Meaning, Interpretation (Texts) B: Analysis of the Social World</i> 2594 001 1.0 Erin Schoneveld Film Screening W 7:30PM 9:55PM VCAM001 2 2594 001 1.0 Erin Schoneveld T Th 1:00PM 2:25PM VCAM201 2								
VIST	H241E	Film and Digital Media Editing In this course students will learn the technical fundamentals of film and video editing, as well as theoretical modes of montage. This course will train students in Adobe Premiere Pro which is the primary editing software and platform for video and digital media production in VCAM. Enrollment Limit: 15.00 <i>Attributes: A: Creative Expression Humanities Visual Studies</i> 2694 001 .5 Charles Woodard M W 2:30PM 3:55PM VCAM101 1								
VIST	H275A	Race and Representation in Documentary Filmmaking This is an introductory cross-listed (Visual Studies/Anthropology) production course on the theory and practice of documentary filmmaking through an exploration of race onscreen. The objective of the course is to enable students to build a critical awareness of the ways in which film and media in general perpetuate racist discourses and representations and explore how students can challenge such representations through their own filmmaking practices. As inspiration, we will watch and study a wide variety of innovative documentary films that bring alternative voices and histories to screen and read/watch filmmaker interviews. Classes will combine elements of a studio (sharing and critiquing filmmaking work in progress) and seminar (discussing weekly themes). Crosslisted: VIST. Lottery Preference: Senior students in anthropology and visual studies have a priority to take this class. Enrollment Limit: 12.00 <i>Attributes: A: Creative Expression B: Analysis of the Social World Social Science Visual Studies</i> 1712 001 1.0 Zeynep Sertbulut T Th 11:30AM 12:55PM VCAM201 2								
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. Prerequisite(s): Visual Studies minor Enrollment Limit: 12 <i>Attributes: Humanities Visual Studies</i> 1505 001 1.0 Emily Teera-Hong W 1:30PM 3:55PM VCAM102 10								
VIST	H480A	Independent Study Independent Study 1816 001 1.0 0								
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								

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Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<i>Attributes: First Year Writing</i>										
		1516	001	1.0	Nimisha Ladva	M W	11:30AM	12:55PM		9
		1517	002	1.0	Nimisha Ladva	M W	1:00PM	2:25PM		10
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								
		<i>Attributes: First Year Writing</i>								
		1536	001	1.0	Marjorie Ana Hartman	T Th	10:00AM	11:25AM		10
		1537	002	1.0	Marjorie Ana Hartman	T Th	1:00PM	2:25PM		10
WRPR	H106A	Feminism Before Suffrage								
		Long before they secured the right to vote, women in the United States were actively engaged in an array of political and social debates from abolition and labor reform to marriage and Indigenous sovereignty. In this course we'll explore this history of American feminist expression by tracing the ways in which women writers from 1776-1920 contested and asserted ideas about sex, race, class, and citizenship.								
		Pre-requisite(s): Placement by the Director of College Writing.								
		Enrollment Limit: 12.00								
		<i>Attributes: First Year Writing Gender and Sexuality Studies</i>								
		1701	001	1.0	Jessica Hayden Libow	M W	11:30AM	12:55PM	UN114	11
		1702	002	1.0	Jessica Hayden Libow	M W	1:00PM	2:25PM	UN114	11
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								
		<i>Attributes: First Year Writing</i>								
		1518	001	1.0	Kristin Anne Lindgren	T Th	2:30PM	3:55PM	UN114	12
WRPR	H120A	Evolutionary Arguments								
		From the eugenics movement of the early twentieth century to the present, scientists, ethicists, disability activists, and others have argued about the uses of increasingly sophisticated technologies for preventing certain inherited traits and enhancing others. We will track representative arguments in ethics, the court, social movements, and popular culture. How do these medical technologies intersect with cultural values and beliefs? How do they influence who will be included in the human community?								
		Open only to first-year students as assigned by the Director of College Writing.								
		Enrollment Limit: 12								
		<i>Attributes: First Year Writing Health Studies</i>								
		2818	001	1.0	Carol Schilling	T Th	2:30PM	3:55PM	LUT230	12
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								

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Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
Attributes: First Year Writing										
	1694	001	1.0	Shannan Hayes		M W	11:30AM	12:55PM		12
	1695	002	1.0	Shannan Hayes		M W	2:30PM	3:55PM		11
WRPR	H142A	Passing, Mixing, (Re)Producing: Race & Intimacy in American Discourse								
In this course, students will close-read narrative and filmic depictions of transcending, transgressing, and violating racial borders, thinking about what these narratives reflect and what they produce when it comes to understandings of race, gender and sexuality. We'll look at the effects of both transgressive and progressive figurations of "racial mixture" and mixed race individuals, considering what functions these discourses play in larger schemas of American politics, ideologies and affects.										
Lottery Preference: First year students as assigned by the Director of College Writing										
Enrollment Limit: 12.00										
Attributes: Africana Studies First Year Writing Gender and Sexuality Studies										
	2844	001	1.0	Connie McNair		T Th	10:00AM	11:25AM		13
	2846	002	1.0	Connie McNair		T Th	1:00PM	2:25PM		12
WRPR	H146A	Narratives of Ethical Leadership: Soldier, Sage, Statesman, Saint								
Is it better to be loved or feared? May we commit a small act of injustice to achieve a greater good for society? Should someone who committed terrible atrocities be remembered as "the Great?" This course explores the role and ethics of leadership through four figures from ancient history: Socrates, Alexander the Great, Cicero, and Anthony the Great. Guided by these questions, students will hone their abilities in reading critically, debating productively, and writing persuasively. Open only to first-year students as assigned by the Director of College Writing.										
	2819	001	1.0	Charles N. Kuper		M W	11:30AM	12:55PM		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 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										
	1519	001	1.0	Debora Sherman		T Th	11:30AM	12:55PM	WDS	12
	1520	002	1.0	Danielle Allor		T Th	2:30PM	3:55PM		12
	1521	003	1.0	Alexander Millen		M W	2:30PM	3:55PM		10
WRPR	H151A	Through the Looking Glass: Ancient Sexuality and Modern Queer Politics								
In this course, we will examine the influence of Greco-Roman antiquity on the way that we talk about sex and sexuality today, in particular, how queer people have used the Classics to define their own identities. There follows a series of questions: What is at stake when we see ourselves in the past? What does it mean to identify an ancient person as queer? In these histories, which elements are emphasized, which are left out?										
Lottery Preference: First year students as assigned by the Director of College Writing.										
Enrollment Limit: 12.00										
Attributes: First Year Writing										
	2845	001	1.0	Ryan Warwick		T Th	1:00PM	2:25PM		12
WRPR	H154A	Human Rights and the State								
This course explores the tension between the law's dual obligation to protect individual rights and uphold the states right to govern, especially during times of crisis. Students will first consider the question, where do rights originate? Students will then consider primary sources that examine important concepts related to human rights: equal protection in wartime (the										

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internment camp cases), protest (Martin Luther King, Jr.), patriotism (Frederick Douglass), identity (Audre Lorde), and even, technology (Ruha Benjamin). Lottery Preference: First year students as assigned by the Director of College Writing. Enrollment Limit: 12.00 Attributes: First Year Writing										
		2905	001	1.0	Patricia Kennedy	T Th	1:00PM	2:25PM		12
WRPR	H182A	The American Family in Historical Perspective								
Explores values, and stresses, as interfaced with realities of "family," e.g., Native American, Hispanic, African American; Protestant, Jewish, Mormon and Catholic, North, South and West, over time; rituals of birth, marriage, illness, disability; expectations of family "loyalty." Open only to first-year students as assigned by the Director of College Writing. Enrollment Limit: 12 Attributes: First Year Writing										
		1731	001	1.0	Emma Lapsansky	T Th	11:30AM	12:55PM	STO205	12