



HVERFORD

COLLEGE

FALL 2022 COURSE GUIDE

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

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

Faculty-Approved Teaching Times

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

Numbering System & Symbols

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

The suffixes (following a number) indicate:

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

ACADEMIC CALENDAR 2022-2023*

SEMESTER I (FALL 2022)

Wednesday, August 24	First year and transfer students arrive
Saturday, August 27	Residence Halls open for returning students
Monday, August 29	Classes begin at Haverford, Bryn Mawr, and Swarthmore Registration begins
Friday, September 2	Last day to uncover Pass/Fail courses from previous semester
Monday, September 5	Labor Day – Classes not in session
Wednesday, September 7	Final academic verification at Haverford and Bryn Mawr Registration ends
Friday, September 16	Last day to request Pass/Fail, First Quarter courses only Last day to drop a credit at Haverford and Bryn Mawr
Friday, September 30	Faculty reports of concern to CSSP due Petitions to CSSP due
Friday, October 7	Last day to request Pass/Fail, Full Semester courses only Fall break begins at 4:00 p.m.
Monday, October 17	Classes resume at 8:30 a.m.
Friday, October 21	First quarter classes end
Monday, October 24	Second quarter class begin
Friday, October 28	Family and Friends Weekend
Sunday, October 30	(Tentative)
Monday, October 31	Pre-Registration for spring semester begins
Wednesday, November 2	Last day to drop second quarter class
Friday, November 4	Faculty reports of concern to CSSP due Petitions to CSSP due
Friday, November 11	Last day to request Pass/Fail, second quarter courses only Pre-Registration for spring semester ends
Wednesday, November 23	Thanksgiving break begins at 4:00 p.m.
Monday, November 28	Classes resume at 8:30 a.m.
Friday, December 9	Classes end at Haverford; optional Reading Day All papers (except those in lieu of exams) due
Saturday, December 10 - Sunday, December 11	Reading Period
Monday, December 12- Friday, December 16	Final Examination Period
Friday, December 16	Semester ends at 12:00 noon Final examinations due at 12:00 noon
Tuesday, January 3	Final grades due in Registrar's Office by 12:00 noon

SEMESTER II (SPRING 2023)

Monday, January 16	Martin Luther King Day, Classes begin at Swarthmore
Tuesday, January 17	Classes begin at Haverford and Bryn Mawr Registration begins
Friday, January 20	Last day to uncover Pass/Fail courses from previous semester
Wednesday, January 25	Final academic verification at Haverford and Bryn Mawr Registration ends
Friday, February 3	Last day to drop a credit at Haverford and Bryn Mawr
Friday, February 17	Faculty reports of concern to CSSP due Petitions to CSSP due
Friday, March 3	First quarter classes end, Last day to request P/F (1st Qtr) Spring break begins at 4:00 p.m.
Monday, March 13	Classes resume at 8:30 a.m. Second quarter classes begin
Wednesday, March 22	Last day to drop second quarter class
Friday, March 24	Faculty reports of concern to CSSP due Petitions to CSSP due
Monday, April 3	Pre-Registration for fall semester begins
Friday, April 14	Pre-Registration for fall semester ends Major Declaration Forms due in Registrar's Office Returning students' Financial Aid Applications due
Friday, April 28	Classes end at Haverford and Bryn Mawr All papers (except those in lieu of exams) and lab notebooks due Last day to request Pass/Fail, Full Semester and 2nd Qtr classes
Saturday, April 29 - Tuesday, May 2	Reading Period
Monday, May 1 - Wednesday, May 3	Senior Comprehensive Examinations
Wednesday, May 3	Final Examination Period begins
Saturday, May 6	Final examinations for Seniors due at 5:00 p.m.
Monday, May 8	Senior Grades due in Registrar's Office by 5:00 p.m.
Friday, May 12	Semester II ends at noon Final examinations for Underclassmen due at noon
Saturday, May 13	Commencement at Haverford College – 10:00 a.m.* Commencement at Bryn Mawr College
Friday, May 19	Final grades due in the Registrar's Office by 12:00 noon
Friday, May 27 - Sunday, May 29	Alumni Weekend (Tentative)

*Subject to change

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
AFST	H101B				Introduction to African and Africana Studies					
					An interdisciplinary introduction to Africana Studies, emphasizing change and response among African peoples in Africa and outside.					
					Crosslisted: Africana Studies, Independent College Programs					
					1571 001 1.0					0
					1571 001 1.0					0
AFST	H247A				Africana Philosophy					
					Africana philosophy has been defined as "as an area of philosophical research that addresses the problems faced and raised by the African diaspora." (Gordon 2008) Africana philosophy, then, is a modern form of philosophy that oftentimes engages themes and questions that are neglected by Western philosophy. This course will examine philosophical problems raised by African American, Afro-Caribbean, and African philosophy, while engaging major scholars and schools of Africana philosophy.					
					Crosslisted: AFST.					
					Pre-requisite(s): One 100-level course in philosophy or consent of instructor.					
					Enrollment Limit: No Limit					
					2874 001 1.0 Justin I. Fugo	M W	2:30PM	4:00PM		1
AFST	H254B				RAP and Religion: Rhymes about God and the Good					
					We will explore the origins, existential, and ethical dimensions of Rhythm and Poetry (RAP) music. Giving attention to RAP songs written and produced by African American artists, including Tupac, Nas, Jay-Z, The Roots, Lauryn Hill, and Kanye West, we will analyze their work with an interest in understanding a) the conceptions of God and the good reflected in them, b) how these conceptions connect to and reflect African American social and cultural practices, and c) how the conceptions under consideration change over time.					
					Enrollment Limit: 25					
					Lottery Preference(s): Senior religion majors, then junior religion majors, then all others					
					Attributes: Humanities A: Creative Expression Creative Writing					
					2457 001 1.0 Terrance Wiley	F	8:30AM	11:00AM		0
AFST	H308A				Blackness in Latin America					
					This course offers a historical and cultural approach to blackness in Latin America. Understood as an epistemological discourse and as embodied practices, blackness has been at the center of Latin American identity since colonial times. Taught in Spanish.					
					Prerequisite(s): 200 level Spanish course					
					Enrollment Limit: 15					
					Attributes: Latin American, Iberian, and Latinx Studies A: Meaning, Interpretation (Texts) Visual Studies Social Science B: Analysis of the Social World					
					2480 001 1.0 Lina Maria Martinez Hernandez	M W	2:30PM	4:00PM	UN114	7
AFST	H334B				Race and Political Economy of Infectious Diseases					
					This course explores how race is intertwined with infectious diseases in producing persistent social and health inequalities in the U.S. and abroad. It will examine how human group difference is understood as a given and natural condition despite sociocultural, historical, political, and economic contexts that shape it. It will deal with incidents demonstrated racialized understanding of the body and racial discrimination and inequalities perpetuated in the context of HIV/AIDS, Tuberculosis, Ebola, Cholera and Covid 19.					
					Crosslisted: AFST, ANTH.					
					Pre-requisite(s): None.					
					Lottery Preference: declared Health Studies minors, then African studies minors or Anthropology majors					
					Enrollment Limit: 15					
					Attributes: Latin American, Iberian, and Latinx Studies A: Meaning, Interpretation (Texts) Social Science B: Analysis of the Social World					
					1592 001 1.0 Young Su Park	Th	1:30PM	4:00PM		0
AFST	H361B				The New Black Arts Movement: Expressive Culture after Nationalism					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					<p>While the literature of the Black Arts Movement of the late 1960s and early 1970s has traditionally occupied a more tenuous place in the academy (in comparison with, say, slave narratives or the Harlem Renaissance), its influence as an aesthetic and a political sensibility resonates forcefully in contemporary African American literature and culture. This course will begin with an exploration of the literary achievements of BAM, and then move into contemporary literature and culture, charting the influence of the era. Among others, we will consider the following questions: do contemporary black artists think of themselves as participating in a nationalist movement of any kind? How do they portray and theorize African American identity? For whom do they write and with whom are they fighting? The requirements for this course are several short and informal response papers and three formal essays ranging from 5-10pp.</p>						
					1414 001 1.0 Asali Solomon					0	
ANTH	H103A				Introduction to Anthropology						
					<p>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</p>						
					2594 001 1.0 Patricia L. Kelly	T Th	8:30AM	10:00AM	STO16	22	
ANTH	H106A				Sensing Beyond the Human						
					<p>This course is an interdisciplinary exploration of the political, social, and historical dimensions that shape human attempts to extend their sensory capacities, usually through a proxy, delegate, or sentinel. It will examine how colonialism, race, gender, sexuality, and surveillance have shaped the human desire to perceive in extraordinary ways. Pre-requisite(s): None <i>Attributes: A: Meaning, Interpretation (Texts) Social Science Latin American, Iberian, and Latinx Studies B: Analysis of the Social World</i></p>						
					1600 001 1.0 Jia Hui Lee	M	1:30PM	4:00PM	STO10	42	
ANTH	H212A				Feminist Ethnography						
					<p>This course delves into the historical development and utility of feminist anthropology. Feminist Ethnography is both methodology and method that seeks to explore how gender, race, sexuality, and subjectivity operate in a variety of contexts. We will explore articulations and critiques of feminist ethnographic methods that engage researcher positionality and the politics of research. This course is one part analytic and another part how-to. Participants will read classic and contemporary ethnographies while learning to craft auto-ethnographic research. Prerequisite(s): One ANTH course or instructor consent Enrollment Limit: 25 Lottery preference(s): Anthropology majors, Gen/Sex and Africana Studies concentrators</p>						
					2593 001 1.0 Patricia L. Kelly	T Th	10:00AM	11:30AM	STO10	1	
ANTH	H265A				Medical Anthropology						
					<p>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</p>						
					2796 001 1.0 Michael D'Arcy	T Th	1:00PM	2:30PM	CHS101	2	
ANTH	H275A				Race and Representation in Documentary Filmmaking						
					<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</p>						

Haverford College Fall 2022 Course Guide

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					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 Attributes: Visual Studies A: Creative Expression					
		2791	001	1.0	Zeynep Sertbulut	M W	1:00PM	2:30PM		0
ANTH	H276A				Global Media Worlds					
					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. Pre-requisite(s): 100-level course in social sciences, or humanities. Lottery Preference: Senior anthropology students have a priority to take the class. Enrollment Limit: 25.00					
		2793	001	1.0	Zeynep Sertbulut	T Th	11:30AM	1:00PM		0
ANTH	H302B				Oil, Culture, Power					
					This course will examine the political, social, and cultural history of oil. As the single most important commodity in the world, the story of control over this highly prized resource is a complex and violent one. It will discuss the ways in which oil has defined the fates empires and nation-states, the rise and fall of local political movements, violence, neoliberal governmentality, and knowledge production. Prerequisite(s): One 100-level course in anthropology, political science, sociology, or history, or instructor consent Enrollment Limit: 25 Lottery Preference(s): Seniors and anthropology majors					
		1038	001	1.0	Zainab M. Saleh	Th	1:30PM	4:00PM		0
ANTH	H303A				History and Theory of Anthropology					
					The development of anthropological thought. Theories of society and the human subject, social organization and social structure, and the culture concept. Structuralism, Marxist anthropology, the crisis of representation in the 1980s and 1990s, postmodernism, the relationship between ethnography and history, and practice theory. Prerequisite(s): One course in ANTH, excluding BMC ANTH B303					
		1016	001	1.0	Zainab M. Saleh	Th	1:30PM	4:00PM	SHA416	15
ANTH	H328B				The Fight Against Impunity: The Turn to International Criminal Prosecutions					
					This course traces the conceptual shift or 'turn' towards individual criminal prosecutions for grave violations of human rights and humanitarian principles, the related conceptual shifts (from responsibility to individual accountability or from human rights reporting to evidence collection) and the international, national and regional organizations that are part of this turn. This is an interdisciplinary course offering students an introduction to the field of international criminal justice. Through a series of weekly 'dossiers', with readings drawn from a wide range of sources including academic literature, NGO reports, blog posts, Twitter threads and case law, we will explore the emergence of international criminal justice as a distinct field of practice and seek to uncover the underlying assumptions and principles that inform the field. This course will offer an introduction to international criminal law as a legal framework. At the same time, we will work to situate this legal framework within broader, interdisciplinary conversations and current affairs: justice and social repair, humanitarianism, the role of non-state actors and civil society, international development, the influence of technology and social media, etc. Crosslisted: Peace, Justice and Human Rights; Anthropology Prerequisite(s): 200 level course in PJHR, ANTH or POLS, or consent of instructor Enrollment Limit: 15 Lottery Preference(s): 1. PJHR students 2. Anthropology students					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<p><i>Attributes: B: Analysis of the Social World Social Science Peace, Justice and Human Rights</i></p>										
	2474	001	1.0		Sarah-Jane Koulen	M	7:30PM	10:00PM		0
ANTH	H331B	Critiques of the Human from Africa								
<p>This advanced seminar focuses on approaches from Africa and the diaspora that consider the category, experience, and radical potential of being (post)human. Course readings and discussions challenge and reframe desires to transcend or go beyond the bodily, psychological, and technological limits of the human, situated in Africa and the diaspora. We engage with ethnographies and histories of/from Africa by anti-colonial writers, postcolonial leaders, Black feminists, storytellers, scholars, and working people in Africa and beyond.</p> <p>Pre-requisite(s): One course in Anthropology, or permission by instructor</p> <p>Lottery Preference: None</p> <p>Enrollment Limit: 15</p>										
	1611	001	1.0		Jia Hui Lee	M	1:30PM	4:00PM		0
ANTH	H333A	The Anthropology of Migration and Global Mental Health: Politics, Epistemologies, Critiques								
<p>How should anthropologists think about the relationship between migration and ongoing debates in the international psychiatric community about global mental health in theory and practice? What happens when both people and ideas move across political borders, between institutions of care, and through the historical and intellectual borderlands that sit between different healing traditions? This course explores these and other related questions through a variety of readings in sociocultural and medical anthropology with a focus on the subjects of the politics of asylum, medical humanitarianism, and transcultural psychiatry.</p> <p>Crosslisted: HLTH.</p> <p>Pre-requisite(s): 200 level course in Anthropology, Health Studies, History, Sociology, Political science, or Peace Justice and Human Rights.</p> <p>Lottery Preference: Anthropology and Health Studies seniors.</p> <p>Enrollment Limit: 15.00</p>										
	2794	001	1.0		Michael D'Arcy	W	1:30PM	4:00PM		0
ANTH	H334B	Race and Political Economy of Infectious Diseases								
<p>This course explores how race is intertwined with infectious diseases in producing persistent social and health inequalities in the U.S. and abroad. It will examine how human group difference is understood as a given and natural condition despite sociocultural, historical, political, and economic contexts that shape it. It will deal with incidents demonstrated racialized understanding of the body and racial discrimination and inequalities perpetuated in the context of HIV/AIDS, Tuberculosis, Ebola, Cholera and Covid 19.</p> <p>Crosslisted: AFST, ANTH.</p> <p>Pre-requisite(s): None.</p> <p>Lottery Preference: declared Health Studies minors, then African studies minors or Anthropology majors</p> <p>Enrollment Limit: 15</p>										
	2471	001	1.0		Young Su Park	Th	1:30PM	4:00PM		0
ANTH	H450A	Senior Seminar: Research and Writing								
<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>										
	1020	001	1.0		Zainab M. Saleh	T	1:30PM	4:00PM	SHA416	11
ANTH	H451B	Senior Seminar: Supervised Research and Writing								
<p>The spring semester of the two-semester senior thesis seminar. Students complete research on their thesis and write an ethnography. Most of the semester is individual meetings between thesis writers and advisors. The spring senior thesis seminar includes a public thesis presentation and an oral exam.</p>										
	1043	001	1.0		Zainab M. Saleh					0
ARAB	H001A	Introduction to Modern Standard Arabic								
<p>Three additional hours of Drill required.</p> <p>Enrollment Limit: 20</p>										

Haverford College Fall 2022 Course Guide

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Lottery Preference(s): 14 spaces reserved for incoming freshmen; (1) Freshman; (2) sophomore; (3) Junior; (4) major/Minor/Concentration; (5) Permission of Instructor										
	1003	001	1.5	Manar Darwish		T Th	8:30AM	10:00AM	STO10	16
	1004	00A	.0	Manar Darwish	Meet at Haverford	M W F	8:30AM	9:30AM	STO10	11
	1005	00B	.0	Manar Darwish	Meet at Bryn Mawr	M W F	10:00AM	11:00AM	OL111	5
ARAB	H002B	Introduction to Modern Standard Arabic								
Enrollment Limit: 20 Drills for this course: M/W/F 8:30-9:30 at Haverford OR M/W/F 10:00-11:00 at Bryn Mawr.										
Lottery Preference(s): 14 spaces reserved for incoming freshmen; (1) Freshman; (2) sophomore; (3) Junior; (4) major/Minor/Concentration; (5) Permission of Instructor										
	1027	001	1.5	Manar Darwish		T Th	8:30AM	10:00AM		0
	1028	00A	.0	Manar Darwish	Meet at Haverford	M W F	8:30AM	9:30AM		0
	1029	00B	.0	Manar Darwish	Meet at Bryn Mawr	M W F	10:00AM	11:00AM		0
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										
	1142	001	.5	Jonathan C. Goodrich		M	7:30PM	10:00PM	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										
	1152	001	.5	Jonathan C. Goodrich		M	7:30PM	10:00PM	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										
	1140	001	.5	William Williams		M	1:30PM	4:00PM	ARTS15	14
ARTS	H103G	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										
	1105	001	.5	William Williams		M	1:30PM	4:00PM	ARTS15	0
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,										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld			
					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								
					1151	001	.5	Markus Baenziger	W	1:30PM	4:00PM	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											
		Lottery Preference: Fine Arts majors and minors											
					1144	001	.5	Markus Baenziger	W	1:30PM	4:00PM	ARTS8A	15
ARTS	H104G	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(s): Fine Arts Majors											
					1110	001	.5	Markus Baenziger	W	1:30PM	4:00PM		0
ARTS	H104H	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(s): Fine Arts Majors											
					1103	001	.5	Markus Baenziger	W	1:30PM	4:00PM		0
ARTS	H106G	Arts Foundation - Drawing											
		This is a seven-week introductory level course designed to provide an overview of basic drawing techniques addressing line, form, perspective, and composition. Various drawing methods will be introduced in class, and students will gain experience in drawing by working from still life, models, and architecture. Preference to declared majors who need Foundations, and to students who have entered the lottery for the same Foundations course at least once without success.											
		Enrollment Limit: 18											
					1113	001	.5	Jonathan C. Goodrich	M	7:30PM	10:00PM	ARTS8A	0
ARTS	H106H	Arts Foundation - Drawing											
		This is a seven-week introductory level course designed to provide an overview of basic drawing techniques addressing line, form, perspective, and composition. Various drawing methods will be introduced in class, and students will gain experience in drawing by working from still life, models, and architecture. Preference to declared majors who need Foundations, and to students who have entered the lottery for the same Foundations course at least once without success.											
		Enrollment Limit: 18											
					1111	001	.5	Jonathan C. Goodrich	M	7:30PM	10:00PM	ARTS8A	0
ARTS	H107D	Arts Foundation-Painting											

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
					<p>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</p>					
		1160	001	.5	Ying Li	T	1:30PM	4:00PM	ARTS8A	12
ARTS	H107E	Arts Foundation-Painting								
					<p>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</p>					
		1143	001	.5	Ying Li	T	1:30PM	4:00PM	ARTS8A	12
ARTS	H107G	Arts Foundation-Painting								
					<p>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</p>					
		2369	001	.5	Ying Li	T	1:30PM	4:00PM	ARTS8A	0
ARTS	H107H	Arts Foundation-Painting								
					<p>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</p>					
		1106	001	.5	Ying Li	T	1:30PM	4:00PM	ARTS8A	0
ARTS	H108E	Arts Foundation-Photography								
					<p>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</p>					
		1141	001	.5	William Williams	M	1:30PM	4:00PM	ARTS15	15
ARTS	H108H	Arts Foundation-Photography								
					<p>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</p>					
		1107	001	.5	William Williams	M	1:30PM	4:00PM	ARTS15	0
ARTS	H121E	Foundation Printmaking: Relief Printing								
					<p>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</p>					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1153	001	.5	Hee Sook Kim	W	1:30PM	4:00PM	LOCK105	12
ARTS	H121H	Foundation Printmaking- Relief								
		1114	001	.5	Hee Sook Kim	W	1:30PM	4:00PM	LOCK105	0
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								
		1146	001	.5	Hee Sook Kim	W	1:30PM	4:00PM	LOCK105	13
ARTS	H124G	Foundation Printmaking: Monotype								
		Basic printmaking techniques in Monotype medium. Painterly methods, direct drawing, stencils, brayer techniques for beginners in printmaking will be taught. Color, form, shape, and somposition in 2-D format will be explored. Individual and group critiques will be employed. Enrollment Limit: 15								
		1109	001	.5	Hee Sook Kim	W	1:30PM	4:00PM	LOCK105	0
ARTS	H142A	Introduction to Visual Studies								
		An introduction to the trans-disciplinary field of Visual Studies, its methods of analysis and topical concerns. Traditional media and artifacts of art history and film theory, and also an examination of the ubiquity of images of all kinds, their systems of transmission, their points of consumption, and the very limits of visuality itself. Crosslisted: Visual Studies, Fine Arts, Comparative Literature Enrollment Limit: 25 Lottery Preference(s): 1.) Senior Visual Studies minors 2.) Other declared Visual Studies minors 5 spaces reserved for incoming first years Attributes: A: Creative Expression Humanities Visual Studies								
		1524	001	1.0	Erin Schoneveld	M W	2:30PM	4:00PM	VCAM201	12
ARTS	H224B	Computer and Printmaking								
		Computer-generated images and printmaking techniques. Students will create photographic, computer processed, and directly drawn images on lithographic polyester plates and zinc etching plates. Classwork will be divided between the computer lab and the printmaking studio to create images using both image processing software and traditional printmaking methods, including lithography, etching, and silk-screen. Broad experimental approaches to printmaking and computer techniques will be encouraged. Individual and group critiques will be employed. enrollment limit: 12 Lottery Preference: Fine Arts Major and Minors								
		2375	001	1.0	Hee Sook Kim	Th	10:00AM	12:30PM	LOCK105	0
ARTS	H225A	Lithography: Materials and Techniques								
		An intermediate course covering B/W and Color Lithography in plates. Combined methods with other printmaking techniques such as Paper lithography and Monotype are explored during the course along with photographic approaches. Editioning of images is required along with experimental ones. Development of technical skills in traditional Lithography and personal visual study are necessary with successful creative solutions. 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. Attributes: Humanities A: Meaning, Interpretation (Texts)								
		1905	001	1.0	Hee Sook Kim	W	10:00AM	12:30PM	LOCK105	12
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.								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<i>Attributes: Humanities</i>										
	1906	001	1.0	Ying Li		T	10:00AM	12:30PM	ARTS8A	12
ARTS	H233B	Painting: Materials and Techniques								
Students are encouraged to experiment with various painting techniques and materials in order to develop a personal approach to self-expression. We will emphasize form, color, texture, and the relationship among them; influences of various techniques upon the expression of a work; the characteristics and limitations of different media. Students will work from observation, conceptual ideas and imagination. Course includes drawing projects, individual and group crits, slide lectures, museum and gallery visits.										
Prerequisite: Fine Arts Foundations or consent.										
	2374	001	1.0	Ying Li		T	10:00AM	12:30PM	ARTS8A	0
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.										
	1145	001	1.0	Markus Baenziger		W	10:00AM	12:30PM	ARTS8A	11
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.										
	1156	001	1.0	William Williams		M	10:00AM	12:30PM	ARTS15	3
ARTS	H251B	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.										
Prerequisite: Fine Arts 103 or equivalent.										
	1108	001	1.0	William Williams		M	10:00AM	12:30PM	ARTS15	0
ARTS	H321B	Experimental Studio: Etching								
An advanced course covers Color Etching using multiple plates. Viscosity printing, line etching, aquatint, soft-ground, surface roll, Chin-collè, plate preparation, registration, and editioning are covered. Students study techniques and concepts in Intaglio method as well as visual expressions through hands-on experiences. Development of technical skills of Intaglio and personal visual study are necessary and creative and experimental approaches beyond two-dimensional outcomes 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.										
	2376	001	1.0	Hee Sook Kim		W	10:00AM	12:30PM	LOCK105	0
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.										

Haverford College Fall 2022 Course Guide

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		1907	001	1.0	Ying Li	W	10:00AM	12:30PM	ARTS8A	4
ARTS	H343B	Experimental Studio: Sculpture								
		In this studio course the student is encouraged to experiment with ideas and techniques with the purpose of developing a personal expression. It is expected that the student will already have a sound knowledge of the craft and aesthetics of sculpture and is at a stage where personal expression has become possible. May be repeated for credit. Prerequisite: Fine Arts 243A or B, or consent of instructor								
		1112	001	1.0	Markus Baenziger	W	10:00AM	12:30PM		0
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.								
		1155	001	1.0	William Williams	W	10:00AM	12:30PM	ARTS15	1
ARTS	H460A	Teaching Assistant								
		1154	001	.5						2
ARTS	H460B	Teaching Assistant								
		1641	001	1.0						0
ARTS	H460D	Teaching Assistant								
		1148	001	.5						0
		1150	002	.5						0
ARTS	H460E	Teaching Assistant								
		1149	001	.5						0
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. <i>Attributes: Natural Science</i>								
		2572	001	1.0	Markus Baenziger					1
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.								
		1147	001	1.0	Markus Baenziger	T	7:00PM	9:00PM	PARK	5
ARTS	H499B	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. Prerequisite: Senior Majors								
		1104	001	1.0	Markus Baenziger	T	7:00PM	9:00PM	PARK	0
ARTT	H251A	Fundamentals of Acting								
		An introduction to the fundamental elements of acting (scene analysis, characterization, improvisation, vocal and gestural presentation, and ensemble work) through the study of scenes from significant 20th-century dramatic literature. Enrollment Limit - 14 (10 spaces for Freshmen) Enrollment Limit: 12, Freshmen seats: 6; Enrollment Lottery Criteria: Major and Minors by class (seniors then juniors).								

Haverford College Fall 2022 Course Guide

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		2650	001	1.0	Akeem M. Davis	M W	1:00PM	2:30PM	GIACSWAN	5
ASTR	H101B	Astronomical Ideas								
		Fundamental concepts and observations of modern astronomy, such as the properties of planets, the birth and death of stars, and the properties and evolution of the Universe. Not intended for students majoring in the physical sciences. Enrollment limit: 30 Attributes: Humanities A: Meaning, Interpretation (Texts)								
		1822	001	1.0	TBA Department staff	M W F	10:30AM	11:30AM		0
ASTR	H104B	Topics in Intro Programming: Physics and Astronomy								
		Topics in Introductory Programming is designed to give a general introduction to programming as related to data analysis across many fields. Students will be introduced to standard introductory programming imperative and object oriented techniques as well as data structures necessary to create efficient and understandable algorithmic solutions to problems. This course satisfies the prerequisite for CMSC 107. Antirequisite(s): Students who have taken a semester of college-level computer science (e.g., CMSC105) or placed into CMSC107 are ineligible to take this course. It is intended for students with little or no background in computer programming. This course is equivalent to CMSC 104. Enrollment by permission only. Enrollment Limit: 24								
		1223	001	.0	Andrea N. Lommen	M W	10:00AM	11:30AM		0
		1225	00A	1.0	Andrea N. Lommen	M	9:30AM	10:30AM		0
		1226	00B	1.0	Andrea N. Lommen	M	10:30AM	11:30AM		0
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								
		1219	001	1.0	Islam Khan	T Th	10:00AM	11:30AM	OBS	22
ASTR	H304B	Computational Physics								
		An introduction to the methods and problems of computational physics, including matrix methods, ordinary differential equations, integration, eigensystems, Monte Carlo techniques, Fourier analysis, and iterative methods. Course will include a substantial independent project. Crosslisted: Physics, Astronomy, Computer Science Prerequisite(s): PHYS 213 or BMC PHYS 306 or instructor consent Enrollment Limit: 18								
		1224	001	1.0	Daniel Grin	M W	10:00AM	11:30AM		0
ASTR	H341A	Advanced Topics: Observational Astronomy								
		Observing projects that involve using a CCD camera on a 16-inch Schmidt-Cassegrain telescope. Projects include spectroscopy; variable star photometry; H-alpha imaging; imaging and photometry of galaxies and star clusters; instruction in the use of image processing software and CCD camera operation. Students work in groups of two with minimal faculty supervision. Formal reports are required. Prerequisite(s): ASTR H204 Enrollment Limit: 12 Lottery Preference(s): 1. Astronomy majors 2. Astrophysics majors								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
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										
	1174	001	1.0	Foen Peng		M W	11:30AM	1:00PM	SHA113	18
	1861	002	1.0	Foen Peng		T Th	10:00AM	11:30AM	HLS108	34
	1862	003	1.0	Jessica Comstock		M W	11:30AM	1:00PM	CHS104	18
	1863	004	1.0	Jessica Comstock		T Th	10:00AM	11:30AM	CHS104	32
	1175	00A	.0	Shirley Lang	Lab Lecture	T	1:00PM	2:00PM	SHA113	20
	1175	00A	.0	Shirley Lang		T	1:00PM	4:00PM	SHA118	20
	1176	00B	.0	Shirley Lang	Lab Lecture	W	1:00PM	2:00PM	SHA113	25
	1176	00B	.0	Shirley Lang		W	1:00PM	4:00PM	SHA118	25
	1177	00C	.0	Shirley Lang	Lab Lecture	Th	1:00PM	2:00PM	SHA113	23
	1177	00C	.0	Shirley Lang		Th	1:00PM	4:00PM	SHA118	23
	1178	00D	.0	Shirley Lang	Lab Lecture	F	1:00PM	2:00PM	SHA113	24
	1178	00D	.0	Shirley Lang		F	1:00PM	4:00PM	SHA118	24
	1864	00E	.0	Rachel Hoang	Lab Lecture	F	8:30AM	9:30AM	SHA113	10
	1864	00E	.0	Rachel Hoang		F	8:30AM	11:30AM	SHA118	10
BIOL	H201B	Molecules, Cells, & Organisms								
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 200B is an introduction to the major macromolecules of the cell, which includes a discussion of their synthesis and breakdown and leads into a discussion of cellular structures. The laboratory introduces the student to cell and molecular biology 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 28.										
Prerequisite(s): BIOL H200 with a grade of 2.0 or higher, or instructor consent										
	1152	001	1.0	Amy Cooke		M W	11:30AM	1:00PM		0
	1522	002	1.0	Amy Cooke		T Th	10:00AM	11:30AM		0
	1889	003	1.0	Kristen Whalen		M W	11:30AM	1:00PM		0
	1890	004	1.0	Kristen Whalen		T Th	10:00AM	11:30AM		0
	1153	00A	.0	Shirley Lang	Lab lecture	T	1:00PM	2:00PM		0
	1153	00A	.0	Shirley Lang		T	1:00PM	4:00PM		0
	1154	00B	.0	Shirley Lang	Lab lecture	W	1:00PM	2:00PM		0
	1154	00B	.0	Shirley Lang		W	1:00PM	4:00PM		0
	1155	00C	.0	Shirley Lang	Lab lecture	Th	1:00PM	2:00PM		0
	1155	00C	.0	Shirley Lang		Th	1:00PM	4:00PM		0
	1156	00D	.0	Shirley Lang	Lab lecture	F	1:00PM	2:00PM		0
	1156	00D	.0	Shirley Lang		F	1:00PM	4:00PM		0
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										

Haverford College Fall 2022 Course Guide

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Enrollment Limit: 35										
Lottery Preference(s): Priority to senior psychology or neuroscience majors, followed by junior psychology or neuroscience majors, followed by psychology or neuroscience minors										
Attributes: A: <i>Meaning, Interpretation (Texts)</i> B: <i>Analysis of the Social World</i>										
	2560	001	1.0	Megan Massa		T Th	2:30PM	4:00PM	HLS108	5
BIOL	H300A	Advanced Lab in Biology Sem 1								
One lecture and two laboratory periods per week. An introduction to the application of modern experimental approaches in the study of interesting biological questions. Techniques employed are drawn from: cloning and nucleic acids (DNA and RNA) manipulation, including polymerase chain reaction (PCR) and site-directed mutagenesis; protein expression, purification and characterization, with emphasis on circular dichroism and fluorescence spectroscopy; immunofluorescence, confocal and electron microscopy; and fluorescence-activated cell sorting (FACS) analysis. Preference for a specific lab section will be given to students preregistering for that lab section; students who do not preregister will be assigned on a space available basis. Each lab section enrollment is limited to 16.										
Prerequisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, or instructor consent										
Enrollment Limit: 32										
Lottery Preference(s): Biology majors										
Attributes: C: <i>Physical and Natural Processes</i> Natural Science										
	2499	001	.0	Kristen Whalen		M	1:00PM	2:30PM	SHA113	13
	2499	001	.0	Courtney Marshall		M	1:00PM	2:30PM	SHA113	13
	2785	002	.0	Amy Cooke		M	1:00PM	2:30PM	ESTW115	1
	2497	00A	1.0	Kristen Whalen		T Th	1:00PM	4:00PM	ESTW105	11
	2497	00A	1.0	Courtney Marshall		T Th	1:00PM	4:00PM	ESTW105	11
	2498	00B	1.0	Kristen Whalen		W F	1:00PM	4:00PM	ESTW105	2
	2498	00B	1.0	Courtney Marshall		W F	1:00PM	4:00PM	ESTW105	2
	2784	00C	1.0	Amy Cooke		W F	1:00PM	4:00PM	ESTW106	1
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										
	1194	001	.5							0
	1195	00A	.0							0
	1196	00B	.0							0
BIOL	H300E	Advanced Lab in Biology Sem 1								
One lecture and two laboratory periods per week. An introduction to the application of modern experimental approaches in the study in interesting biological questions. Techniques employed are drawn from: cloning and nucleic acids (DNA and RNA) manipulation, including polymerase chain reaction (PCR) and site-directed mutagenesis; protein expression, purification and characterization, with emphasis on circular dichroism and fluorescence spectroscopy; immunofluorescence, confocal and electron microscopy; and fluorescence-activated cell sorting (FACS) analysis. Preference for a specific lab section will be given to students preregistering for that lab section; students who do not preregister will be assigned on a space available basis. Enrollment in the half-semester module is by consent of instructor only.										
Prerequisite(s): Successful completion of BIOL H200A and B with grades of 2.0 or higher, and instructor consent.										
Enrollment Limit: 32										

Haverford College Fall 2022 Course Guide

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Lottery Preference(s): Biology majors										
		1197	001	.5						1
		1198	00A	.0						0
		1199	00B	.0						1
BIOL	H301B	Advanced Lab in Biology Sem 2								
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.										
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										
This section requires enrollment in Lab 00A or 00B.										
		2467	001	.0	Rachel Hoang	M	1:00PM	2:30PM		0
		2467	001	.0	Karl A. Johnson	M	1:00PM	2:30PM		0
		2464	00A	1.0	Rachel Hoang	T Th	1:00PM	4:00PM		0
		2464	00A	1.0	Karl A. Johnson	T Th	1:00PM	4:00PM		0
		2465	00B	1.0	Rachel Hoang	T Th	1:00PM	4:00PM		0
		2465	00B	1.0	Karl A. Johnson	W F	1:00PM	4:00PM		0
BIOL	H301G	Advanced Lab in Biology Sem 2								
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										
		1157	001	.5	Rachel Hoang	M	1:00PM	2:30PM		0
		1158	00A	.0	Rachel Hoang	T Th	1:00PM	4:00PM		0
		1159	00B	.0	Rachel Hoang	W F	1:00PM	4:00PM		0
BIOL	H301H	Advanced Lab in Biology Sem 2								
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										
		1160	001	.5	Karl A. Johnson	M	1:00PM	2:30PM		0
		1161	00A	.0	Karl A. Johnson	T Th	1:00PM	4:00PM		0

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1162	00B	.0	Karl A. Johnson	W F	1:00PM	4:00PM		0
BIOL	H303B	Laboratory in Biochemical Research								
		An introduction to the laboratory concepts and techniques at the chemistry-biology interface including: molecular cloning, protein purification, biophysical spectroscopy, molecular modeling, and biochemical assays. Crosslisted: Chemistry, Biology Prerequisite(s): CHEM H225 Enrollment Limit: 15 Lottery Preference(s): Biochemistry concentrators								
		1564	001	1.0	Robert Fairman	T	11:30AM	12:30PM		0
		1565	00A	.0	Louise Charkoudian	T Th	1:00PM	4:00PM	ESTW106	0
BIOL	H311D	Advanced Genetic Analysis								
		The molecular mechanisms governing the transmission, mutation and expression of genes. Particular emphasis is placed on the use of experimental genetic methods to analyze other areas of biology. Crosslisted: Biology, Health Studies Prerequisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, or instructor consent								
		1205	001	.5	Danielle De Leo	M W	10:00AM	11:30AM	SHA113	25
BIOL	H312E	Development & Evolution								
		This course introduces important links between developmental and evolutionary biology. Genetic changes that produce variations between organisms are an important aspect of evolutionary change. Since development can be viewed as a process that links genetic information to final form of an organism, the fields of development and evolution clearly impact one another. We will look at model developmental systems where mechanisms have been elucidated in remarkable detail. We will then look beyond model systems to comparative studies in a range of organisms, considering how these provide insight into evolutionary mechanisms, and how underlying differences in development may account for the differences we see between organisms. Prerequisite(s): BIOL H200A and 201B with a grade of 2.0 or above, or instructor consent If you sign up for this class you must be available for a potential field trip the morning of Tue Nov 29th or Thu Dec 1st returning to campus by 1pm (a letter can be provided to excuse you from conflicting classes). <i>Attributes: C: Physical and Natural Processes Quantitative Natural Science</i>								
		1884	001	.5	Rachel Hoang	T Th	8:30AM	10:00AM	HLS108	32
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								
		2786	001	.5	Robert Fairman	M W	10:00AM	11:30AM	SHA113	0
BIOL	H319H	Molecular Neurobiology								
		This course will give students the tools to start answering "how/why did I do that?" by exploring the major molecular players and regulators controlling the development, form, function, and flexibility of the nervous system. We will approach neurobiology from an experimental stance, focusing on how the field has come to understand the way genes and molecules can control simple and complex behaviors in model organisms and humans. We will also explore how disrupting these genes, molecules, and processes can lead to neuropsychiatric and neurodegenerative diseases. Prerequisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, or instructor consent								
		1192	001	.5	Courtney Marshall	T Th	10:00AM	11:30AM		0
BIOL	H329G	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 <i>Attributes: Natural Science</i>								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1899	001	.5	Jay Lunden	T	7:30PM	10:00PM		0
BIOL	H335D	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								
		2808	001	.5	Shane Denecke	T Th	8:30AM	10:00AM		1
BIOL	H336G	The Cell Cycle								
		This course will focus on an examination of the eukaryotic cell cycle, a complex sequence of events that take place as cells grow and divide. Proper regulation of the cell cycle is critical in biological systems, and dysregulation can lead to diseases such as cancer. The key roles of cyclins and cyclin-dependent kinases in governing cell cycle check points will be examined, as well as the functions of oncogene and tumor suppressor gene products.								
		<i>Attributes: Visual Studies Humanities A: Meaning, Interpretation (Texts)</i>								
		2586	001	.5	Nancy Maas	T Th	10:00AM	11:30AM		0
BIOL	H337H	Pathogenic Microbiology								
		This course will examine the role of medically-significant pathogenic microorganisms in causing disease in humans and other animals. Viruses, bacteria, and fungi all can have devastating effects on their hosts, and modes of infection, host-microbe interactions, pathogenesis, anti-microbial treatments and the emergence of drug resistance will be examined at cellular and molecular levels for a variety of pathogens important in human and veterinary medicine.								
		Pre-requisite(s): BIOL H200A and H201B with a grade of 2.0 or above, or instructor consent								
		2587	001	.5	Jessica Comstock	M W	10:00AM	11:30AM		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								
		1180	001	1.0	TBA Department staff					0
BIOL	H380B	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								
		1169	001	1.0	Jessica Comstock					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								
		1209	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								
		1204	001	.5	TBA Department staff					0
BIOL	H380G	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								
		1900	001	.5	TBA Department staff					0

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld	
BIOL	H380H				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: Humanities A: Meaning, Interpretation (Texts) A: Meaning, Interpretation (Texts) Humanities 1901 001 .5 TBA Department staff						0
BIOL	H380I				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 1170 001 .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. 1202 001 1.0 Karl A. Johnson						5
BIOL	H400B				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 410 must have designated on-campus and off-campus supervisors. Prerequisite(s): BIOL H300A and B with a grade of 2.0 or above and instructor consent. Attributes: Humanities A: Meaning, Interpretation (Texts) Middle Eastern/Central Asian/North African Studies 1190 001 1.0 Karl A. Johnson						0
BIOL	H400F				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 410 must have designated on-campus and off-campus supervisors. Prerequisite(s): BIOL H300A and B with a grade of 2.0 or above and instructor consent. Attributes: C: Physical and Natural Processes Natural Science Natural Science C: Physical and Natural Processes 1623 001 .5 Karl A. Johnson						1
BIOL	H400I				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 410 must have designated on-campus and off-campus supervisors. Prerequisite(s): BIOL H300A and B with a grade of 2.0 or above and instructor consent. 1191 001 .5 Karl A. Johnson						0
BIOL	H403A				Senior Research Tutorial in Protein Folding and Design The laboratory focuses on protein folding and design, with a particular emphasis on the use of proteins in nanoscience. Students will have the opportunity to apply chemical and genetic approaches to the synthesis of proteins for folding and design studies. Such proteins are characterized in the laboratory using biophysical methods (such as circular dichroism spectroscopy, analytical ultracentrifugation, and atomic force microscopy). Functional and structural approaches can also be applied as necessary to answer specific questions relating to protein science. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 1182 001 1.0 Robert Fairman						9
BIOL	H403B				Senior Research Tutorial in Protein Folding and Design						

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					<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>						
			1172	001	1.0					0	
BIOL	H403F	Senior Research Tutorial in Protein Folding and Design									
		<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>									
			1183	001	.5					0	
BIOL	H403I	Senior Research Tutorial in Protein Folding and Design									
		<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>									
			1173	001	.5					0	
BIOL	H404A	Senior Research Tutorial in Molecular Microbiology									
		<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>									
			1186	001	1.0					1	
BIOL	H404B	Senior Research Tutorial in Molecular Microbiology									
		<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>									
			1174	001	1.0					0	
BIOL	H404F	Senior Research Tutorial in Molecular Microbiology									

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					Microbes live and grow in environments that include other microbes; how do these microbe-microbe interactions change microbial genomes (through evolution) and change the composition of communities (through ecological dynamics)? Laboratory work will focus on pathogen and commensal Streptococcus species to investigate how cells communicate with each other, how they exchange genes, and how they produce toxins that modify their surrounding community. Bioinformatic approaches will examine evolution within and between bacteria species, while computational approaches will investigate fundamental questions in evolutionary biology. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent.					
		1187	001	.5	Eric Miller					0
BIOL	H404I				Senior Research Tutorial in Molecular Microbiology					
					Microbes live and grow in environments that include other microbes; how do these microbe-microbe interactions change microbial genomes (through evolution) and change the composition of communities (through ecological dynamics)? Laboratory work will focus on pathogen and commensal Streptococcus species to investigate how cells communicate with each other, how they exchange genes, and how they produce toxins that modify their surrounding community. Bioinformatic approaches will examine evolution within and between bacteria species, while computational approaches will investigate fundamental questions in evolutionary biology. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent.					
		1175	001	.5	Eric Miller					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					
		1172	001	1.0	Kristen Whalen					3
BIOL	H405B				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					
		1163	001	1.0	Kristen Whalen					0
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					
		1173	001	.5	Kristen Whalen					1
BIOL	H405I				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					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1164	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								
		<i>Attributes: A: Meaning, Interpretation (Texts) Humanities Middle Eastern/Central Asian/North African Studies</i>								
		1188	001	1.0	Rachel Hoang					4
BIOL	H406B	Senior Research Tutorial in Developmental Biology and Evolution								
		Students develop their own lab research projects in a sub-field of cell or molecular 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								
		1176	001	1.0	Rachel Hoang					0
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								
		<i>Attributes: Humanities Middle Eastern/Central Asian/North African Studies A: Meaning, Interpretation (Texts)</i>								
		1189	001	.5	Rachel Hoang					0
BIOL	H406I	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								
		1177	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								
		1184	001	1.0	Karl A. Johnson					3
BIOL	H407B	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								
		1178	001	1.0	Karl A. Johnson					0
BIOL	H407F	Senior Research Tutorial in Bioarchitecture								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					<p>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.</p> <p>Prerequisite(s): Instructor consent</p> <p>Enrollment Limit: 7</p>					
		1185	001	.5	Karl A. Johnson					0
BIOL	H407I	Senior Research Tutorial in Bioarchitecture								
					<p>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.</p> <p>Prerequisite(s): Instructor consent</p> <p>Enrollment Limit: 7</p>					
		1179	001	.5	Karl A. Johnson					0
BIOL	H409A	Senior Research Tutorial in Molecular Neurobiology								
					<p>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.</p> <p>Prerequisite(s): Instructor consent</p> <p>Enrollment Limit: 7</p>					
		1200	001	1.0	Roshan Jain					1
		1890	002	1.0	Courtney Marshall					3
BIOL	H409B	Senior Research Tutorial in Molecular Neurobiology								
					<p>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.</p> <p>Prerequisite(s): Instructor consent</p> <p>Enrollment Limit: 7</p>					
		1180	001	1.0	Courtney Marshall					0
		1902	002	1.0	Roshan Jain					0
BIOL	H409F	Senior Research Tutorial in Molecular Neurobiology								
					<p>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.</p> <p>Prerequisite(s): Instructor consent</p> <p>Enrollment Limit: 7</p>					
		1201	001	.5	Roshan Jain					0
		1891	002	.5	Courtney Marshall					1
BIOL	H409I	Senior Research Tutorial in Molecular Neurobiology								
					<p>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.</p> <p>Prerequisite(s): Instructor consent</p>					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Enrollment Limit: 7										
	1181	001	.5		Courtney Marshall					0
	1903	002	.5		Roshan Jain					0
BIOL	H417A	Senior Research Tutorial in Molecular Genomics/Biochemistry								
This course will focus on how RNA regulation mediated by RNA-binding proteins dictates and responds to cellular physiology at the molecular level. Students will approach this problem using a range of techniques including biochemistry, molecular genetics, systems biology, bioinformatics and mammalian tissue culture. Students will use an established functional genomic dataset to develop new tools and cell-lines in order to uncover the molecular mechanisms of RNA regulation and connect this regulation to physiological events such as amino acid transport in skeletal muscle cells. As a supplement to lab work, students will explore the scientific literature and have opportunities to present their scientific findings in both written and oral format to hone their scientific communication skills.										
Prerequisite(s): Instructor Consent										
Enrollment Limit: 7										
	1208	001	1.0		Amy Cooke					6
BIOL	H417B	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										
	1193	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										
	1216	001	1.0		Amy Cooke					0
BIOL	H417I	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										
	1194	001	1.0		Amy Cooke					0
BIOL	H418A	Senior Research Tutorial in Evolutionary Genetics								
In this course we will use wild Mimulus flower species to explore how plants adapt to pollinators through evolution. Approaches include genetic mapping, plant transformation, gene expression analysis, population genetics simulation,										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1895	001	.5	Jay Lunden	T	7:30PM	10:00PM	ESTW309	14
BIOL	H450E	Advanced Topics in Biology								
<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: <i>Quantitative C: Physical and Natural Processes Scientific Computing Natural Science</i></p>										
		2787	001	.5	Jessica Comstock	T Th	2:30PM	4:00PM	ESTW115	0
BIOL	H450G	Advanced Topics in Biology								
<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>										
		1184	001	.5	TBA Department staff	M W	10:00AM	11:30AM		0
BIOL	H453G	Advanced Topics in Neurobiology								
<p>A seminar course exploring the primary literature in a specialized area of neurobiology. 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: 1) Senior Haverford Biology majors, 2) Other seniors, 3) junior Haverford Biology majors</p>										
		2583	001	.5	Courtney Marshall	M W	10:00AM	11:30AM		0
BIOL	H457H	Advanced Topics in Protein Science								
<p>In the last decade great strides have been made in identifying protein misfolding and aggregation in a wide variety of debilitating human diseases. It is now becoming clear that many dementias and other signs of "old age" can now be attributed to these diseases, leading to a decrease in the quality of life. Thus, approaches to treat these diseases are of paramount importance for quality of life issues. In order to develop treatments, a molecular understanding of these diseases is critical. The underlying biophysical basis for protein misfolding and aggregation is now largely understood and involves a common structural motif called the cross-β-sheet fibril. This course will focus on a set of diseases for which we now know quite a lot about the chemistry, molecular biology, and cell biology that underlies the misfolding behavior of the protein in question. We will look at Alzheimer's disease, prion infectious disease, Huntington's disease, Parkinson's disease, and ALS or Lou Gehrig's disease. While the course will focus on the primary literature that discusses the protein aggregation problem, other disciplinary areas such as genetics, cell biology, animal model systems, and clinical biology may be introduced as appropriate.</p> <p>Enrollment Limit: 15</p>										
		2179	001	.5	Robert Fairman	M W	10:00AM	11:30AM		0
BIOL	H480B	Independent Study for Seniors								
<p>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.</p> <p>Prerequisite(s): Instructor consent</p> <p>Attributes: <i>Humanities Middle Eastern/Central Asian/North African Studies A: Meaning, Interpretation (Texts)</i></p>										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1189	001	1.0	TBA Department staff					0
BIOL	H480I	Independent Study for Seniors								
		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: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Social Science								
		1620	001	.5	TBA Department staff					0
		1182	001	.5	TBA Department staff					0
BIOL	H499J	Senior Department Studies								
		Participation in the department's seminar series; attendance at seminars by visiting speakers; senior seminar meetings, consisting of presentation and discussion of research plans and research results by students; and class activities related to the senior year in biology.								
		Prerequisite(s): Department consent								
		Attributes: Humanities A: Meaning, Interpretation (Texts) Middle Eastern/Central Asian/North African Studies								
		1190	001	.5	Rachel Hoang	M	2:30PM	4:00PM	SHAAUD	35
		1171	001	.5	Rachel Hoang	M	2:30PM	4:00PM		0
CHEM	H111A	Chemical Structure and Bonding								
		Structure and bonding in molecules starting from nuclear and electronic structure of atoms. This course introduces the theories of chemical bonding that rationalize and predict the structures and bulk properties of molecules and materials. It also introduces modern instrumental and computational methods used to study chemical structure and bonding.								
		Three lectures and one lab period per week required.								
		Recitations TBA								
		1314	002	1.0	Alexander Norquist	M W F	9:30AM	10:30AM	HLS109	61
		1347	003	1.0	Alexander Norquist	M W F	11:30AM	12:30PM	SHA410	36
		1305	00A	.0	Kelly Ginion Matz	T	1:00PM	4:00PM	ESTW305	26
		1306	00B	.0	Kelly Ginion Matz	W	1:00PM	4:00PM	ESTW305	26
		1307	00C	.0	Kelly Ginion Matz	Th	1:00PM	4:00PM	ESTW305	22
		1308	00D	.0	Kelly Ginion Matz	F	1:00PM	4:00PM	ESTW305	23
CHEM	H112B	Chemical Dynamics								
		An introduction to chemical thermodynamics, equilibrium, electrochemistry and kinetics. Microscopic properties are used to develop basic chemical concepts of energy, enthalpy, entropy, and the Gibbs Energy, and their applications to thermochemistry, equilibria, and electrochemistry. Chemical kinetics, reaction mechanisms, and applications to chemical problems are also discussed.								
		One hour recitation times to be announced.								
		Prerequisite(s): Completion of, or prior placement into CHEM 111 or CHEM 115, or recommendation of CHEM 113 instructor								
		1300	001	1.0	Casey H Londergan	M W F	8:30AM	9:30AM		0
		1301	002	1.0	Casey H Londergan	M W F	9:30AM	10:30AM		0
		2251	003	1.0	Casey H Londergan	M W F	11:30AM	12:30PM		0
		1331	00A	.0	Kelly Ginion Matz	T	1:00PM	4:00PM		0
		1332	00B	.0	Kelly Ginion Matz	W	1:00PM	4:00PM		0
		1333	00C	.0	Kelly Ginion Matz	Th	1:00PM	4:00PM		0
		1334	00D	.0	Kelly Ginion Matz	F	1:00PM	4:00PM		0
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.								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1312	001	1.0	Theresa D. Gaines	M T W Th F	9:00AM	10:00AM	ESTW309	11
		1316	00A	.0	Kelly Ginion Matz	T	1:00PM	4:00PM	ESTW305	4
		1317	00B	.0	Kelly Ginion Matz	W	1:00PM	4:00PM	ESTW305	1
		1318	00C	.0	Kelly Ginion Matz	Th	1:00PM	4:00PM	ESTW305	1
		1319	00D	.0	Kelly Ginion Matz	F	1:00PM	4:00PM	ESTW305	5
CHEM	H114B	Intensive: Chemical Dynamics								
		An introduction to chemical thermodynamics, equilibrium, electrochemistry and kinetics. Microscopic properties are used to develop basic chemical concepts of energy, enthalpy, entropy, and the Gibbs Energy, and their applications to thermochemistry, equilibria, and electrochemistry. Chemical kinetics, reaction mechanisms, and applications to chemical problems are also discussed. This is a more intensive offering of CHEM 112 designed for students with little or no experience in chemistry.								
		Prerequisite(s): CHEM 113 or recommendation of CHEM 111 instructor								
		1311	001	1.0	Clyde Daly	M T W Th F	9:00AM	10:00AM		0
		1312	00A	.0	Kelly Ginion Matz	T	1:00PM	4:00PM		0
		1313	00B	.0	Kelly Ginion Matz	W	1:00PM	4:00PM		0
		1314	00C	.0	Kelly Ginion Matz	Th	1:00PM	4:00PM		0
		1315	00D	.0	Kelly Ginion Matz	F	1:00PM	4:00PM		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.								
		1299	001	1.0	Louise Charkoudian	M W F	9:30AM	10:30AM	SHAAUD	49
		2255	002	1.0	Louise Charkoudian	M W F	11:30AM	12:30PM	SHAAUD	45
		1300	00A	.0	Alberto Lopez	M	1:00PM	4:00PM	ESTW307	24
		1301	00B	.0	Alberto Lopez	T	1:00PM	4:00PM	ESTW307	25
		1302	00C	.0	Alberto Lopez	W	1:00PM	4:00PM	ESTW307	21
		1303	00D	.0	Alberto Lopez	Th	1:00PM	4:00PM	ESTW307	24
CHEM	H225B	Organic Reactions and Synthesis								
		This course will explore organic reactions in mechanistic detail, and highlight their use in the syntheses of complex organic molecules. It will concentrate on functional group transformations and then delve into organometallic and enantioselective reactions for use in complex syntheses.								
		Prerequisite: CHEM H222								
		Recitation Options: Th 9-10 or F 1-2.								
		1302	001	1.0	Leah Seebald	M W F	9:30AM	10:30AM		0
		1574	002	1.0	Leah Seebald	M W F	11:30AM	12:30PM		0
		1303	00A	.0	Alberto Lopez	M	1:00PM	4:00PM		0
		1304	00B	.0	Alberto Lopez	T	1:00PM	4:00PM		0
		1305	00C	.0	Alberto Lopez	W	1:00PM	4:00PM		0
		1566	00D	.0	Alberto Lopez	Th	1:00PM	4:00PM		0

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
CHEM	H261J				Research Tutorial in Physical Chemistry					
					One-half credit course for the year designed for students interested in the chemistry research experience in physical chemistry, condensed phase chemical physics, and biophysical chemistry, with emphasis on spectroscopic studies of peptides and proteins. (Not open to seniors.)					
					Prerequisite(s): Instructor consent: interested students should discuss possible enrollment with the instructor.					
			1321	001	.5 Casey H Londergan					0
			1316	001	.5 Casey H Londergan					0
CHEM	H262J				Research Tutorial in Theoretical Chemistry					
					One-half credit course for the year designed for students interested in the chemistry research experience in theoretical physical chemistry, with emphasis on methods for prediction of optical, electronic, and mechanical properties of semiconductor nanostructures. (Not open to seniors.)					
					Prerequisite(s): Instructor consent					
					Attributes: Humanities A: Meaning, Interpretation (Texts)					
			1348	001	.5 Clyde Daly					0
			1335	001	.5 Clyde Daly					0
CHEM	H263J				Research Tutorial in Organic Chemistry					
					One-half credit course for the year designed for students interested in the chemistry research experience in synthetic organic chemistry and physical-organic chemistry. Topics include total synthesis of biologically significant molecules, new methods of enantioselective synthesis, and the study of organic reaction mechanisms. (Not open to seniors.)					
					Prerequisite(s): Instructor consent					
			1322	001	.5 Theresa D. Gaines					1
			1317	001	.5 Theresa D. Gaines					0
CHEM	H265J				Research Tutorial in Bioinorganic Chemistry					
					One-half credit course for the year designed for students interested in the chemistry research experience in spectroscopic and kinetic studies of metalloproteins and inorganic coordination compounds. (Not open to seniors.) This course is graded universal P/F in which no numerical grade is assigned.					
					Prerequisite(s): Instructor consent (requires prior discussion of, and agreement on, type of research to be pursued; this 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					
			1323	001	.5 Robert C. Scarrow					0
			1318	001	.5 Robert C. Scarrow					0
CHEM	H267J				Research Tutorial in Biological Chemistry					
					One-half credit course for the year designed for students interested in the chemistry research experience in natural product biosynthesis. (Not open to seniors.) This course is graded universal P/F in which no numerical grade is assigned.					
					Prerequisite(s): Instructor consent					
			1324	001	.5 Louise Charkoudian					0
			1336	001	.5 Louise Charkoudian					0
			2256	002	.5 Leah Seebald					0
			2274	002	.5 Leah Seebald					0
CHEM	H268A				Research Tutorial in Environmental Chemistry					
					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.)					
					Prerequisite(s): Instructor consent					
					Attributes: C: Physical and Natural Processes Natural Science					
			1628	001	1.0 Helen K. White					0
CHEM	H268F				Research Tutorial in Environmental Chemistry					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					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.)						
					Prerequisite(s): Instructor consent						
					Attributes: C: Physical and Natural Processes Natural Science						
		1627	001	.5	Helen K. White					0	
CHEM	H268I	Research Tutorial in Environmental Chemistry									
					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.)						
					Prerequisite(s): Instructor consent						
		1698	001	.5	Helen K. White					0	
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						
		1325	001	.5	Helen K. White					0	
		1319	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						
		1326	001	.5	Alexander Norquist					1	
		1320	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.						
		1310	001	1.0	Paul Spoons	T	11:30AM	12:30PM	SHA410	30	
		1311	00A	.0	Paul Spoons	T Th	1:00PM	4:00PM	ESTW108	30	
		1311	00A	.0	Paul Spoons	T Th	1:00PM	4:00PM	ESTW108	30	
CHEM	H302B	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, 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 instrumental analytical chemistry are particularly stressed. Instruments such as lasers, the 500 MHz NMR spectrometer, and the mass spectrometer combined with either gas or liquid chromatography are used by students, with faculty supervision.						
					Prerequisite(s): CHEM H225 and either CHEM H304, or CHEM H305 (which may be taken concurrently)						
		1306	001	1.0	Paul Spoons	T	11:30AM	12:30PM		0	
		1307	00A	.0	Paul Spoons	T Th	1:00PM	4:00PM		0	
CHEM	H303B	Laboratory in Biochemical Research									
					An introduction to the laboratory concepts and techniques at the chemistry-biology interface including: molecular cloning, protein purification, biophysical spectroscopy, molecular modeling, and biochemical assays.						
					Crosslisted: Chemistry, Biology						

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Prerequisite(s): CHEM H225										
Enrollment Limit: 15										
Lottery Preference(s): Biochemistry concentrators										
	1562	001	1.0		Robert Fairman	T	11:30AM	12:30PM		0
	1563	00A	.0		Louise Charkoudian	T Th	1:00PM	4:00PM	ESTW106	0
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										
	1309	001	1.0		Clyde Daly	M W F	9:30AM	10:30AM	CHS104	38
CHEM	H305B	Quantum Chemistry								
Two lectures. The quantum theory of atoms and molecules as applied to problems in molecular structure, computational chemistry, and basic spectroscopic techniques. Emphasis on computer-based solutions and visualization.										
Prerequisite(s): MATH 121 or 216, or instructor consent										
	1308	001	1.0		Samuel Shepard	T Th	8:30AM	10:00AM		0
CHEM	H310E	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										
	1539	001	.5		Helen K. White	T	7:30PM	10:00PM	LNKL205	8
CHEM	H320G	Concepts of Inorganic Chemistry								
Three lectures for one-half semester (one-half course credit). An introduction to structure and reactivity of inorganic molecules and materials. Topics include: theories of chemical bonding, symmetries of molecules and solid state materials, acid-base, oxidation-reduction reactions, and structures and nomenclature of coordination complexes.										
Prerequisite(s): CHEM H225										
	1309	001	.5		Samuel Shepard	M W F	9:30AM	10:30AM		0
CHEM	H340G	Molecular Spectroscopy								
This course develops the main theoretical formalism for understanding modern NMR spectroscopy of biological macromolecules, including proteins and nucleic acids.										
<i>Attributes: Health Studies</i>										
	2580	001	.5		Clyde Daly	W F	1:00PM	2:30PM		0
CHEM	H340H	Molecular Spectroscopy								
This course develops the main theoretical formalism for understanding modern NMR spectroscopy of biological macromolecules, including proteins and nucleic acids.										
	2581	001	.5		Clyde Daly	W F	1:00PM	2:30PM		0
CHEM	H351H	Bioinorganic Chemistry								
Three lectures for one-half semester (one-half course credit). Biological cells require metals such as zinc, iron, copper, manganese, and molybdenum; metal-binding abilities of various functional groups within proteins and nucleic acids, metal-based reactivity involved in reaction mechanisms of specific metalloenzymes, and medically-relevant topics such as bioaccumulation and storage of metal ions, the toxicity of heavy metals, and use of metal-containing drugs in treating disease will be discussed.										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					Prerequisite(s): Chem H222 and either CHEM H320 or BIOLH201					
		1310	001	.5	Robert C. Scarrow	M W F	8:30AM	9:30AM		0
CHEM	H352D	Topics in Biophysical Chemistry: Macromolecular Crystallography								
		The specific content of the course varies, depending on faculty and student interests. The course will focus on biophysical chemistry and related topics.								
		Prerequisite(s): Chem H304 or equivalent (depending on material), or instructor consent.								
		Attributes: Visual Studies First Year Writing Gender and Sexuality Studies								
		2257	001	.5	Margarita Tararina	T	7:00PM	9:30PM	SHA416	3
CHEM	H355E	Topics in Advanced Organic Chemistry: Photochemistry								
		This course will focus on organic reactions that are utilized to make important biologically active compounds, how drugs are made through synthesis. and how the route of synthesis is changed and improved through the stages of Drug Development prior to commercialization.								
		Prerequisite(s): CHEM H305 or CHEM B221								
		2756	001	.5	Samuel Shepard	M W F	10:30AM	11:30AM	ESTW115	0
CHEM	H355G	Topics in Advanced Organic Chemistry								
		Three lectures. Variable content, depending on the interests of students and faculty. Topics are selected in consultation with students electing the course. Previous topics have been modern synthetic methods, asymmetric synthesis, natural product chemistry, biosynthesis, chemistry of coenzymes, combinatorial approaches to synthesis, free radical chemistry, organic photochemistry, organometallic chemistry.								
		Prerequisite(s): Chemistry H225.								
		Enrollment Limit: 30								
		Attributes: C: Physical and Natural Processes Natural Science Quantitative								
		2579	001	.5	Paul Spoons	M W F	10:30AM	11:30AM		0
CHEM	H357D	Topics in Bioorganic Chemistry: Rational Drug Design								
		The specific content of the course varies, depending on faculty and student interests. The course will focus on organic chemistry as applied to biological systems and related topics.								
		Prerequisite(s): Chem 225 or instructor consent								
		Enrollment Limit: 30								
		1349	001	.5	Mark A. Hilfiker	M	7:30PM	10:00PM	ESTW309	13
CHEM	H358E	Topics in Environmental Chemistry: Toxic Heavy Metals								
		This course will examine chemical processes that occur in natural waters, soils and the atmosphere. Specific topics will be chosen with input from enrolled students, who will be expected to share in discussion leadership. CHEM 358 may be repeated once for credit as long as the topical themes differ.								
		Crosslisted: Chemistry, Environmental Studies								
		Prerequisite(s): CHEM H222 (or other organic chemistry course such as CHEM B211)								
		Attributes: First Year Writing								
		2258	001	.5	Robert C. Scarrow	T Th	8:30AM	10:00AM	SHA113	12
CHEM	H359H	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								
		1548	001	.5	Samuel Shepard	M W F	9:30AM	10:30AM		0
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								
		1328	001	1.0	Casey H Londergan					1

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
CHEM	H361B				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 1321 001 1.0 Casey H Londergan					0
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 1350 001 1.0 Clyde Daly					3
CHEM	H362B				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 1339 001 1.0 Clyde Daly					0
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 1329 001 1.0 Theresa D. Gaines 2564 002 1.0 Paul Spoons					0 1
CHEM	H363B				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 1322 001 1.0 Theresa D. Gaines 2522 002 1.0 Paul Spoons					0 0
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 1330 001 1.0 Robert C. Scarrow					1
CHEM	H365B				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 1323 001 1.0 Robert C. Scarrow					0
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 1331 001 1.0 Louise Charkoudian 2259 002 1.0 Leah Seebald					1 3
CHEM	H367B				Senior Research Tutorial in Biological Chemistry Directed research in organic biological chemistry. Topics include natural product isolation and characterization, investigations into the role of protein-protein interactions in antibiotic biosynthesis, and the elucidation of biosynthetic pathways.					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld	
					Prerequisite(s): Instructor consent						
		1324	001	1.0	Louise Charkoudian					0	
		2283	002	1.0	Leah Seebald					0	
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: Humanities A: Meaning, Interpretation (Texts)</i>									
		1332	001	1.0	Helen K. White					1	
CHEM	H368B	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									
		1325	001	1.0	Helen K. White					0	
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: A: Meaning, Interpretation (Texts) Classics Humanities</i>									
		1333	001	1.0	Alexander Norquist					2	
CHEM	H369B	Senior Research Tutorial in Materials Science									
		Directed research in inorganic materials chemistry. Topics include synthesis and structural characterization of organically templated microporous materials.									
		Prerequisite(s): Instructor consent									
		1326	001	1.0	Alexander Norquist					0	
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									
		1611	001	1.0	TBA Department staff					1	
CHEM	H380B	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: A: Creative Expression Visual Studies Humanities</i>									
		1525	001	1.0	TBA Department staff					0	
CHEM	H391J	Chemistry Departmental Seminar									
		Presentation and discussion of current research topics in the various areas of chemistry by faculty, students and outside speakers. One meeting per week throughout the year (one-half course credit). This course is graded universal P/F in which no numerical grade is assigned.									
		Prerequisite(s): concurrent enrollment in a research tutorial course (CHEM H361 to CHEM H369, or equivalent).									
		1327	001	.5	Paul Spoons	F	2:30PM	4:00PM	ESTW309	16	
		1327	001	.5	Paul Spoons	F	2:30PM	4:00PM		0	
CHEM	H480A	Independent Study									
		Independent Study									
		<i>Attributes: Humanities Classics</i>									
		1335	001	1.0	TBA Department staff					0	
CHEM	H480B	Independent Study									
		Independent Study									

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
		1328	001	1.0	TBA Department staff					0
		1329	002	1.0	TBA Department staff					0
CHEM	H480F	Independent Study								
		Enrollment Limit: 5								
		1313	001	.5	TBA Department staff					0
CHEM	H480H	Independent Study								
		Independent study								
		1330	001	.5	TBA Department staff					0
CHEM	H480I	Independent Study								
		Enrollment Limit: 5								
		1707	001	.5	TBA Department staff					0
CMSC	H104B	Topics in Intro Programming: Physics and Astronomy								
		Topics in Introductory Programming is designed to give a general introduction to programming as related to data analysis across many fields. Students will be introduced to standard introductory programming imperative and object oriented techniques as well as data structures necessary to create efficient and understandable algorithmic solutions to problems. This course satisfies the prerequisite for CMSC 107.								
		Antirequisite(s): Students who have taken a semester of college-level computer science (e.g.,CMSC105) or placed into CMSC107 are ineligible to take this course. It is intended for students with little or no background in computer programming. This course is equivalent to CMSC 104.								
		Enrollment by permission only.								
		Enrollment Limit: 24								
		1559	001	.0	Andrea N. Lommen	M W	10:00AM	11:30AM		0
		1557	00A	1.0	Andrea N. Lommen	M	9:30AM	10:30AM		0
		1558	00B	1.0	Andrea N. Lommen	M	10:30AM	11:30AM		0
CMSC	H105A	Introduction to Computer Science								
		Introduction to the intellectual and software tools used to create and study algorithms: formal and informal problem specification; problem solving and algorithm design techniques; reliability, formal verification, testing, and peer code review techniques; program clarity, complexity and efficiency; functional and imperative paradigms; associated programming skills. Students must attend a one-hour weekly lab. Labs will be sectioned by course professor.								
		Prerequisite(s): May not be taken by students who have taken any one of HC: CMSC 104, CMSC 107; BMC: CMSC 110, except by instructor consent								
		Enrollment Limit: 36								
		Lottery Preference(s): 24 spaces reserved for incoming freshmen, then:								
		1) Sophomores								
		2) Senior Scientific Computing concentrators								
		3) Junior CS minors, Junior Scientific Computing concentrators, and Junior CS concentrators								
		4) Others								
		1089	001	.0	David Wonnacott	M W	11:30AM	1:00PM	HLS204	13
		1592	002	.0	Jeova Farias Sales Rocha Neto	M W	2:30PM	4:00PM	HLS204	24
		1086	00A	1.0	Suzanne Lindell	F	9:30AM	10:30AM	HLS110	12
		1087	00B	1.0	Suzanne Lindell	F	10:30AM	11:30AM	HLS110	12
		1088	00C	1.0	Suzanne Lindell	F	11:30AM	12:30PM	HLS110	12
		1614	00D	1.0	Suzanne Lindell	F	1:30PM	2:30PM	HLS110	1
		1615	00E	1.0	Suzanne Lindell	F	2:30PM	3:30PM	HLS110	0
CMSC	H106B	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								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<p>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.</p> <p>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</p> <p>Enrollment Limit: 36</p> <p>Lottery Preference(s): Sophomores then first-years, then Scientific Computing concentrators, then Computer Science minors and concentrators</p>										
		1078	001	.0						0
		1075	00A	1.0						0
		1076	00B	1.0						0
		1077	00C	1.0						0
CMSC	H107A	Introduction to Computer Science and Data Structures								
<p>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.</p> <p>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</p> <p>Enrollment Limit: 36</p> <p>Lottery Preferences: 18 spaces reserved for incoming freshmen, then:</p> <ol style="list-style-type: none"> 1) Sophomores 2) Senior Scientific Computing concentrators 3) Junior CS minors, Junior Scientific Computing concentrators, and Junior CS concentrators 4) Others 										
		1084	001	.0	John P. Dougherty	M W	11:30AM	1:00PM	FDR220	21
		1082	00A	1.0	John P. Dougherty	T	1:00PM	2:00PM	HLS110	9
		1083	00B	1.0	Alvin Grissom	T	2:00PM	3:00PM	HLS110	4
		1085	00C	1.0	Alvin Grissom	T	3:00PM	4:00PM	HLS110	8
CMSC	H208A	Speech Synthesis and Recognition								
<p>An introduction to the methodologies used in the automated recognition and synthesis of human speech, focusing on Hidden Markov Models in recognition and unit selection in synthesis. Students will get hands-on experience with implementing the various components of these systems to better understand the techniques, challenges, and open areas of research.</p> <p>Crosslisted: Computer Science, Linguistics</p> <p>Prerequisite(s): LING 204, CS105 and 106 OR CS107 OR BMC 110 and 206 OR instructor consent</p> <p>Enrollment Limit: 24</p> <p>Lottery Preference(s):</p> <ol style="list-style-type: none"> 1) Junior and Senior CS or LING majors 2) Junior and Senior CS or LING minors 3) Then Seniors, then Juniors, then Sophomores, then Freshmen <p>Attributes: Social Science B: Analysis of the Social World</p>										
		2287	001	1.0	Jane Chandlee	M W	1:00PM	2:30PM	CHS101	12
CMSC	H231A	Discrete Mathematics								
<p>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.</p> <p>Co-requisite(s): CMSC 105, 107, or B110 or B113 or instructor consent</p> <p>Enrollment Limit: 36</p> <p>Lottery Preference(s): 12 spaces reserved for incoming first-year students, then:</p>										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<p>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).</p> <p>Pre-requisite(s): Both CMSC H106, H107, B151, or B206; and CMSC 231 (the latter as co-requisite)</p> <p>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</p> <p>Enrollment Limit: 25</p>										
	2394	001	.0	David Wonnacott	T Th	11:30AM	1:00PM	HLS204	20	
	2392	00A	1.0	John P. Dougherty	W	1:30PM	2:30PM	HLS110	9	
	2393	00B	1.0	John P. Dougherty	W	2:30PM	3:30PM	HLS110	10	
CMSC	H260A	Foundations of Data Science								
<p>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.</p> <p>Enrollment Limit: 25</p> <p>Lottery Preference: 1. Sophomores 2. Senior CS Majors 3. Junior CS Majors 4. Scientific Computing Concentrators</p>										
	1108	001	.0	Alvin Grissom	T Th	10:00AM	11:30AM	ESTW309	19	
	1106	00A	1.0	Alvin Grissom	Th	1:00PM	2:00PM	HLS110	12	
	1107	00B	1.0	Alvin Grissom	Th	2:00PM	3:00PM	HLS110	7	
CMSC	H304B	Computational Physics								
<p>An introduction to the methods and problems of computational physics, including matrix methods, ordinary differential equations, integration, eigensystems, Monte Carlo techniques, Fourier analysis, and iterative methods. Course will include a substantial independent project.</p> <p>Crosslisted: Physics, Astronomy, Computer Science</p> <p>Prerequisite(s): PHYS 213 or BMC PHYS 306 or instructor consent</p> <p>Enrollment Limit: 18</p> <p>Attributes: Social Science B: Analysis of the Social World Environmental Studies</p>										
	1254	001	1.0	Daniel Grin	M W	10:00AM	11:30AM		0	
CMSC	H340A	Analysis of Algorithms								
<p>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.</p> <p>Crosslisted: Computer Science, Mathematics</p> <p>Prerequisite(s): CMSC 106 or 107 or B206, and 231, or instructor consent</p> <p>Enrollment Limit: 24</p> <p>Lottery Preferences:</p> <ol style="list-style-type: none"> 1.) Senior CS majors 2.) Senior CS minors 3.) Junior CS majors and Senior CS concentrators 4.) Sophomores and first-year students 5.) Others 										
	1094	001	.0	Steven Lindell	M W	10:00AM	11:30AM	SHA410	25	
	1093	00A	1.0	Steven Lindell	F	10:30AM	11:30AM	SHA410	25	
CMSC	H345B	Theory of Computation								
<p>Introduction to the mathematical foundations of computer science: finite state automata, formal languages and grammars, Turing machines, computability, unsolvability, and computational complexity. Attendance at the weekly discussion section is required.</p>										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<p>Crosslisted: Computer Science, Mathematics Prerequisite(s): (CMSC 106, 107, 151, or 206) and CMSC 231, and junior or senior standing, or instructor consent Enrollment Limit: 24 Lottery Preference(s): 1) Senior CS majors 2) Senior CS minors 3) Junior CS majors and senior CS concentrators 4) Sophomores and first-year students 5) Others</p>										
		1087	001	.0						0
		1086	00A	1.0						0
CMSC	H350B	Compiler Design								
<p>An introduction to compiler design, including the tools and software design techniques required for compiler construction. Students construct a working compiler using appropriate tools and techniques in a semester-long laboratory project. Lectures combine practical topics to support lab work with more abstract discussions of software design and advanced compilation techniques. Prerequisite(s): CMSC 245 or instructor consent; concurrent enrollment in this and two other CMSC lab courses requires instructor consent Enrollment Limit: 24 Lottery Preference(s): 1. CS senior and junior majors 2. Sophomores and first-year students 3. Senior CS minors 4. Junior CS minors</p>										
		1092	001	.0						0
		1090	00A	1.0						0
		1091	00B	1.0						0
		1697	00C	1.0						0
CMSC	H360B	Machine Learning								
<p>To explore both classical and modern approaches, with an emphasis on theoretical understanding. There will be a significant math component (statistics and probability in particular), as well as a substantial implementation component (as opposed to using high-level libraries). However, during the last part of the course we will use a few modern libraries such as TensorFlow and Keras. By the end of this course, students should be able to form a hypothesis about a dataset of interest, use a variety of methods and approaches to test your hypothesis, and be able to interpret the results to form a meaningful conclusion. We will focus on real-world, publicly available datasets, not generating new data. Prerequisite(s): MATH 215, CMSC 106 or 107, and any one of the following: CMSC 231, 340, or 345; or CMSC 260, or CMSC 325, or instructor consent Enrollment Limit: 24 Lottery Preference(s): Seniors CS majors; Junior CS majors; CS minors; Scientific Computing concentrators; Seniors; Juniors; Sophomores Attributes: B: Analysis of the Social World A: Meaning, Interpretation (Texts) Social Science</p>										
		1614	001	.0	Alvin Grissom					0
		1615	00A	1.0	Alvin Grissom					0
		1616	00B	1.0	Alvin Grissom					0
CMSC	H394A	Advanced Topics in Theoretical Computer Science: Set Theory								
<p>An introduction to axiomatic set theory. Topics include: well-ordered sets and ordinal numbers; transfinite induction and recursion; cardinal numbers and cardinal arithmetic; the Axiom of Choice and equivalents. Crosslisted: Mathematics, Computer Science Prerequisite(s): Either MATH 333 or MATH 317, or instructor consent Enrollment Limit: 15 Attributes: Natural Science C: Physical and Natural Processes Quantitative</p>										
		2414	001	1.0	David Lippel	T Th	2:30PM	4:00PM	ESTW309	7

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
CMSC	H396A	Advanced Topics in Machine Learning: Deep Learning for Computer Vision									
		Content varies by semester; course may sometimes have a specific subtitle, but normally focuses on machine learning itself or on related content of importance to students who have completed the regular machine learning courses. Pre-requisite(s): CMSC H260 and either CMSC H360 or CMSC H325 Lottery Preference: Senior CMSC majors; other CMSC majors; others Enrollment Limit: 15.00 <i>Attributes: Social Science B: Analysis of the Social World Social Science B: Analysis of the Social World</i>									
		2508	001	1.0	Jeova Farias Sales Rocha Neto	T Th	10:00AM	11:30AM	SHA416	11	
	2509	00A	.0	Jeova Farias Sales Rocha Neto	Th	3:00PM	4:00PM	HLS110	11		
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									
	1081	001	1.0	Steven Lindell	F	1:30PM	4:00PM	SHA410	25		
CMSC	H399B	Senior Thesis									
		Spring seminar for seniors writing theses, dealing with the oral and written exposition of advanced material. Unlike the Fall seminar, this course is optional and can count as a 300-level elective for the major. Prerequisite(s): Senior standing									
	1093	001	1.0						0		
CMSC	H480A	Independent Study									
		Independent study, supervised by a member of the Computer Science department. Prerequisite(s): Instructor consent									
	1090	001	1.0	TBA Department staff					0		
CMSC	H480B	Independent Study									
		Independent study, supervised by a member of the Computer Science department. Prerequisite(s): Instructor consent									
		1094	001	1.0						0	
		1622	002	1.0						0	
		1623	003	1.0						0	
		1624	004	1.0						0	
		1625	005	1.0						0	
1626	006	1.0						0			
CMSC	H480F	Independent Study									
		Independent study, supervised by a member of the Computer Science department. Prerequisite(s): Instructor consent									
		1091	001	.5	TBA Department staff					0	
		1092	002	.5	TBA Department staff					0	
	1101	003	.5	TBA Department staff					0		
CMSC	H480I	Independent Study									
		Independent study, supervised by a member of the Computer Science department. Prerequisite(s): Instructor consent									
	1095	001	.5						0		
CNSE	H201A	Advanced Chinese: China's World War II									
		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									
	1359	001	1.0	Shizhe Huang	T Th	2:30PM	4:00PM	HLL112	9		
CNSE	H202B	Advanced Chinese: Chinese Films and Culture									
		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. Students are expected to be proactive and independent learners to advance their Chinese competency in speaking, listening, reading, and writing under close supervision of the instructor.									

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Prerequisite(s): Third year Chinese or instructor consent										
	1360	001	1.0	Shizhe Huang		T Th	2:30PM	4:00PM		0
COML	H142A	Introduction to Visual Studies								
An introduction to the trans-disciplinary field of Visual Studies, its methods of analysis and topical concerns. Traditional media and artifacts of art history and film theory, and also an examination of the ubiquity of images of all kinds, their systems of transmission, their points of consumption, and the very limits of visuality itself.										
Crosslisted: Visual Studies, Fine Arts, Comparative Literature										
Enrollment Limit: 25										
Lottery Preference(s):										
1.) Senior Visual Studies minors										
2.) Other declared Visual Studies minors										
5 spaces reserved for incoming first years										
Attributes: Humanities										
	1523	001	1.0	Erin Schoneveld		M W	2:30PM	4:00PM	VCAM201	3
COML	H200B	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: C: Physical and Natural Processes Natural Science Natural Science C: Physical and Natural Processes										
	2438	001	1.0	Maud B McInerney		M W	1:00PM	2:30PM		0
COML	H210A	Spanish and Spanish American Film Studies								
Exploration of Latin American film. The course will discuss approximately one movie per week. The class will focus on the analysis of cinematic discourses as well as the films' cultural and historic background. The course will also provide advanced language training with particular emphasis in refining oral and writing skills. This course is conducted in Spanish.										
Crosslisted: Spanish, Comparative Literature.										
Prerequisite(s): SPAN 102, or placement, or instructor consent.										
Enrollment Limit: 20										
	1542	001	1.0	TBA Department staff		T Th	11:30AM	1:00PM	STO207	3
COML	H254B	French in English: Colonialism Through French and Francophone Films								
Crosslisted: COML.										
Pre-requisite(s): First-year writing course										
Attributes: Humanities										
	1687	001	1.0	Koffi Anyinefa		T Th	10:00AM	11:30AM		0
COML	H267A	Global SF since 1945								
SF—science fiction, speculative fiction—is the primary allegorical mode of the contemporary world and permits reflections upon and critiques of the world we inhabit today. This course explores the explosion of the genre in the decades since the WWII and the advent of atomic weapons. We will read classics of post-apocalyptic fiction from the '50s and '60s before turning to stories that engage queer identities, Afrofuturism and African Futurism, and the global threat of climate change.										
Crosslisted: ENGL.										
Pre-requisite(s): None										
Lottery Preference: Reserve 10 spaces for First Year Students										
	2517	001	1.0	Maud B McInerney		M	7:30PM	10:00PM	VCAM201	24
COML	H312A	Adv Topics French Literature: L'éducation et ses sujets chez Descartes, La Fontaine et Rousseau								
The goal of this course is to put modern ideas about education into historical perspective by looking at some of their early-modern French counterparts. Will consider how certain subjects— inclusivity, civility, technology, poetry, reason, and passions, as well as persons of different social categories—developed into educational fixtures. The syllabus will										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					centrally feature three authors whose works connect and collide with one another: Descartes, La Fontaine, and Rousseau. We will also read some recent pedagogical theories in order to see how they reflect, reform, or reject early-modern notions. Crosslisted: FREN and COML 1027 001 1.0 David Sedley	F	1:30PM	4:00PM	HLL112	0
COML	H312B				Adv Topics French Lit: Migrations: Hospitalités et hostilités In French. Crosslisted: FREN and COML Prerequisite(s): At least one 200-level course 1059 001 1.0 Koffi Anyinefa	M	1:30PM	4:00PM		0
COML	H316B				Women and the Armed Struggle in Latin America An examination of socialist armed struggles in 1970s, women's rights and feminist movements in Latin America. A comparative study of literary texts, testimonials and documentary films addresses theoretical issues such as Marxism, global feminism, hegemony and feminisms produced in the periphery. This course is conducted in Spanish. Cross-listed: Spanish, Comparative Literature, Gen/Sex, and PJHR Prerequisite(s): One 200-level, preferred 300-level course, or instructor consent Enrollment Limit: 15 Lottery Preferences: Spanish majors, Gen/Sex and PJHR concentrators Attributes: Social Science Praxis Program A: Meaning, Interpretation (Texts) Environmental Studies B: Analysis of the Social World 2407 001 1.0 Aurelia Gómez De Unamuno	T Th	11:30AM	1:00PM		0
COML	H321B				Topics Germ Lit: Ghosts and Spirit Seers: German Idealism and 19th Century Literature Crosslisted: German, Comparative Literature Enrollment Limit: 20 Attributes: Humanities A: Meaning, Interpretation (Texts) Visual Studies 1344 001 1.0 Margaret Strair	T Th	2:30PM	4:00PM		0
COML	H377A				Problems in Postcolonial Literature: Violence, Terror, and Identity An examination of the rhetorical and narrative strategies adopted by postcolonial texts as they negotiate the aesthetic challenges and political complexities of representing violence and terror. Working with fiction, nonfiction, and film, the course will measure the different effects of realism, magical realism, surrealism, and the grotesque as modes of representing the dialectic of violation and violence. Crosslisted: English, Comparative Literature Prerequisite(s): Two 200-level English courses or instructor consent Enrollment Limit: 15 Attributes: Social Science Health Studies Africana Studies B: Analysis of the Social World 2505 001 1.0 Rajeswari Mohan	M W	10:00AM	11:30AM	LUT211	1
COML	H398A				Theories and Methods in Comparative Literature This course is both a seminar on theory and method and a workshop on the development of the senior thesis. It introduces students to a variety of critical approaches and their application, and assists them in developing conceptual frameworks for the senior thesis projects they are in the process of formulating. Prerequisite(s): Open to comparative literature senior majors and minors 2464 001 1.0 Imke Brust	T	1:30PM	4:00PM	STO301	3
COML	H480A				Independent Study Attributes: C: Physical and Natural Processes C: Physical and Natural Processes Natural Science Natural Science 1622 001 1.0					0
CSTS	H119A				Culture and Crisis in the Golden Age of Athens In this course, through the poetry, sculpture, history, architecture, painting, philosophy, and oratory produced by the inhabitants of fifth-century Athens, we will examine the daily workings of Athenian democracy, economy, love, art, science, education, and religion. As we conduct our inquiry into Athens' "Golden Age," we will seek to discover ourselves in these					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					ancient voices, and to illuminate the contrasts inherent between Athens and modernity. Restless, wary, elegant, vulgar, pious, and brutal, the Athenians left a legacy that continues to define and influence human achievement (and travails) to this day. In the last third of the class, students will embark on a multi-week simulation to rebuild Athens in the aftermath of the Peloponnesian Wars. Crosslisted: Classical Studies, PJHR					
		1834	001	1.0	Matthew Cullen Farmer	M W	1:00PM	2:30PM	STO131	41
CSTS	H209B	Classical Mythology			An introduction to the primary characters and stories of Greek and Roman mythology including cosmic creation, Olympian and other deities, and heroes both as they appear in Greek and Roman literature and art and as they are later represented in modern art, music, and film. Crosslisted: Classical Studies, Comparative Literature, Religion					
		1817	001	1.0	Matthew Cullen Farmer	M W	2:30PM	4:00PM		0
CSTS	H398A	Senior Seminar			A bi-college seminar focused on refining the ability to read, discuss, and analyze classical culture and the scholarship of various sub-fields of Classical Studies (e.g. literature, religion, philosophy, law, social history), leading towards the completion of a prospectus for the senior thesis.					
		1788	001	1.0	Matthew Cullen Farmer	F	1:30PM	4:00PM	VCAM102	12
CSTS	H460F	Teaching Assistant								
		1789	001	.5	Bret Mulligan					0
		2579	002	.5	Matthew Cullen Farmer					1
CSTS	H460I	Teaching Assistant			<i>Attributes: A: Creative Expression Humanities</i>					
		1692	001	.5						0
EALC	H112A	Myth, Folklore, and Legend in Japan			An introduction to stories of the weird and supernatural in Japan and a reflection on genre and the scholarly enterprise of taxonomy-making. Readings from Buddhist miracle plays, early modern puppet drama, etc., supplemented by scholarly secondary sources. Enrollment Limit: 25 Lottery Preference(s): EALC majors and minors, then freshmen and sophomores <i>Attributes: Symbolic Reasoning B: Analysis of the Social World</i>					
		2409	001	1.0	Hank Glassman	T Th	2:30PM	4:00PM	STO16	19
EALC	H132A	Japanese Civilization			A broad chronological survey of Japanese culture and society from the earliest times to the present, with special reference to such topics as belief, family, language, the arts, and sociopolitical organization. Readings include primary sources in English translation and secondary studies.					
		1361	001	1.0	Erin Schoneveld	M W	10:00AM	11:30AM	VCAM201	12
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. <i>Attributes: Social Science</i>					
		2408	001	1.0	Hank Glassman	T Th	1:00PM	2:30PM	HLL6	9

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
EALC	H203B				Ukiyo-e: The Art of Japanese Prints This course explores the evolution of Japanese woodblock prints, artists, collectors, and exhibition practices from the 17th century through the present day. Crosslisted: East Asian Languages & Cultures, Visual Studies Enrollment Limit: 35					
	2331	001	1.0		Erin Schoneveld	M W	10:00AM	11:30AM		0
EALC	H219B				East Asian Art and Visual Culture: Japan This course examines the development of modern and contemporary art and visual culture in China, Japan and Korea from the early twentieth century to the present day, with a focus on photography, sculpture, painting, film, propaganda, and performance art.					
	2447	001	1.0		Erin Schoneveld					0
EALC	H247B				Death and the Afterlife in East Asian Religions This course engages the rich textual and visual traditions of China, Korea, and Japan to illuminate funerary and memorial practices and explore the terrain of the next world. Students will learn about the culturally constructed nature of religious belief and come to see the complexity and diversity of the influences on understandings of life and death. The course is not a chronological survey, but rather alternates between modern and ancient narratives and practices to draw a picture of the relationship between the living and the dead as conceived in East Asian religions.					
	2445	001	1.0		Hank Glassman					0
EALC	H256B				Zen Thought, Zen Culture, Zen History What are we talking about when we talk about Zen? This course is an introduction to the intellectual and cultural history of the style of Buddhism known as Zen in Japanese. We will examine the development and expression of this religious movement in China, Korea, Japan and Vietnam. Crosslisted: East Asian Languages & Cultures, History, Religion Enrollment Limit: 25					
	2446	001	1.0		Hank Glassman					0
EALC	H295A				China in the World, 1895-1921 We will read the history of late imperial and Republican China in global perspective, discerning ways in which world-historical dynamics—colonialism and anticolonialism, capitalist expansion and the Russian Revolution, World War I and the Treaty of Versailles—have shaped perceptions within and outside of China as to the nation's place on the global stage. Attention is accorded not only to connections between China and the West, but also how Chinese nationalists engaged and imagined the colonized world. Crosslisted: EALC. Enrollment Limit: 25.00					
	2800	001	1.0		Ruodi Duan	T Th	10:00AM	11:30AM		0
EALC	H296B				China and Africa: Historical Encounters and Contemporary Legacies China's economic and cultural presence in Africa has expanded dramatically since 2000, especially after the launch of the "Belt and Road Initiative." But to understand the contemporary China-Africa relationship, it is essential to examine historical precedents. This course draws from scholarship, journalism, and culture to explore modes and implications of foreign aid, diverse experiences of travel and resettlement between China and Africa, and the role of race in past and present constructions of China-Africa relations. Crosslisted: EALC. Pre-requisite(s): N/A Enrollment Limit: 25.00					
	2585	001	1.0		Ruodi Duan	M W	11:30AM	1:00PM		0
EALC	H346A				Race and Ethnicity in Modern East Asia Do East Asian notions of race and ethnicity extend from Western conceptualizations, or are they informed by indigenous traditions? How have racial and ethnic identities figured into popular imaginations of nationhood? Where does race begin and the nation end? This seminar examines race and ethnic constructs in East Asia through the twentieth century. We will draw from interdisciplinary scholarship to understand how national majority and minority identities have been categorized and reified across East Asia.					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Crosslisted: EALC.										
Enrollment Limit: 15.00										
		2802	001	1.0	Ruodi Duan	Th	1:30PM	4:00PM		1
EALC	H398A	Senior Seminar								
A semester-long research workshop culminating in the writing and presentation of a senior thesis. Required of all majors;										
		1360	001	1.0	Hank Glassman	T	7:30PM	10:00PM	GST102	9
ECON	H104B	Intensive Introduction to Economics								
An intensive introduction to both microeconomic topics—opportunity cost, supply and demand, consumer decision making, the theory of the firm, market structures, and efficiency and market failure—and macroeconomic topics—the determination of GDP, money and interest rates, unemployment and inflation, and fiscal and monetary policy. Designed for students who have not taken economics previously, the course meets 3 1/2 hour sessions per week and includes labor market applications (minimum wage, income inequality and the returns to college).										
Enrollment Limit: 25										
		2240	001	1.0	Anne Preston	M W	10:00AM	11:30AM		0
ECON	H105A	Introduction to Economics								
An introduction to microeconomic and macroeconomic concepts and topics. Micro topics include opportunity cost, supply and demand, consumer decision making, the theory of the firm, production costs, market structures, market failure, efficiency, and welfare. Macroeconomic topics include: measurement of national output, inflation and unemployment, equilibrium output determination, money and banking, interest rates, and fiscal and monetary policy. Because ECON 105 requires graphical and algebraic competency, students are strongly encouraged to take a college-level calculus course either before or concurrently with this course.										
		1253	001	1.0	Saleha Jilani	T Th	11:30AM	1:00PM	STO10	26
		1254	002	1.0	Vladimir Kontorovich	T Th	10:00AM	11:30AM	STO16	16
		1637	003	1.0	Michael Levere	M W	10:00AM	11:30AM	STO131	22
ECON	H105B	Introduction to Economics								
An introduction to microeconomic and macroeconomic concepts and topics. Micro topics include opportunity cost, supply and demand, consumer decision making, the theory of the firm, production costs, market structures, market failure, efficiency, and welfare. Macroeconomic topics include: measurement of national output, inflation and unemployment, equilibrium output determination, money and banking, interest rates, and fiscal and monetary policy. Because ECON 105 requires graphical and algebraic competency, students are strongly encouraged to take a college-level calculus course either before or concurrently with this course.										
		1263	001	1.0	Alberto Arredondo-Chavez	T Th	10:00AM	11:30AM		0
		1278	002	1.0						0
ECON	H201A	Analytical Methods for Economics								
The course explores several foundational models that shape our understanding of the nature of economic choices and interactions. We develop mathematical tools that are commonly used in the study of economics. This course is intended for students planning to major or minor in economics.										
Prerequisite(s): Math 105 or Math 118 at Haverford College (or a comparable course in calculus at another college), or placement into Math 121 or higher; ECON 104 or ECON 105 or ECON 106										
		1278	001	1.0	Timothy Lambie-Hanson	M W	1:00PM	2:30PM	CHS104	39
ECON	H201B	Analytical Methods for Economics								
The course explores several foundational models that shape our understanding of the nature of economic choices and interactions. We develop mathematical tools that are commonly used in the study of economics. This course is intended for students planning to major or minor in economics.										
Prerequisite(s): Math 105 or Math 118 at Haverford College (or a comparable course in calculus at another college), or placement into Math 121 or higher; ECON 104 or ECON 105 or ECON 106										
		1277	001	1.0	Timothy Lambie-Hanson	M W	11:30AM	1:00PM		0
ECON	H203A	Statistical Methods in Economics								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<p>Foundations of statistical inference and data analysis. Three class hours and two lab hours. Prerequisite(s): ECON 104, 105, or 106; Completion of Math 105 or Math 118 at Haverford College (or a comparable course in calculus at another college), or placement into Math 121 or higher.</p>										
		1266	001	1.0	Richard J. Ball	M W	8:30AM	10:00AM	FDR220	34
		1279	00A	.0	Richard J. Ball	T	7:30PM	10:00PM	FDR220	34
ECON	H204B	Economic Statistics with Calculus								
<p>Formal development of the theory of statistical inference, and fundamentals of data analysis. Three hours of class plus two hours of lab per week. Prerequisite(s): ECON 104, 105 or 106; Completion of Math 118 at Haverford College (or a comparable course in calculus at another college), or placement into Math 121. ECON 204 cannot be taken if ECON 203, MATH 203, SOCL 215, PSYCH 200, or Bryn Mawr's ECON B253 have been taken</p>										
		1272	001	1.0	Richard J. Ball	M W	8:30AM	10:00AM		0
		1279	00A	.0	Richard J. Ball	T	7:30PM	10:00PM		0
ECON	H213A	Industrial Organization and Antitrust								
<p>Industrial Organization is the study of how markets work, with an emphasis on firm behavior in imperfectly-competitive markets. The focus will be on how firms acquire market power and how they use it, how businesses interact with one another and their customers, implications for the firms' profits and the well-being of their customers, and the role of government competition policy (e.g., regulation, antitrust laws, etc.) to improve the functioning of these markets. This course uses microeconomic tools and game theory to study the strategic competition between firms and examine how this is related to market power and market structure. Prerequisite(s): ECON 104 or 105</p>										
		1281	001	1.0	Vladimir Kontorovich	T Th	11:30AM	1:00PM	STO16	6
ECON	H247B	Financial Accounting								
<p>An introduction to financial accounting concepts, financial reporting, and managerial accounting. The course will address how accounting measures, records, and reports economic activities for business entities and how decision makers analyze, interpret, and use accounting information. COURSE MAY NOT BE USED TOWARDS THE ECONOMICS MAJOR or MINOR AT HAVERFORD. Crosslisted: Economics, Independent College Programs</p>										
		1275	001	1.0	Neal Grabell	M	7:30PM	10:00PM		0
ECON	H249A	The Soviet System and Its Demise								
<p>The Soviet system was inspired by some of the loftiest ideals of humanity. The entire society was redesigned so as to pursue common goals, rather than conflicting private objectives. The economy was run for people, not profits. The Soviet system is no more, but the ideas on which it was founded will probably always be with us. What does the largest social and economic experiment in history teach us? The course is 1/3 political science and 2/3 economics. Crosslisted: Economics, Russian Prerequisite(s): ECON 104, 105, or 106, or two one-semester courses in political science or history, or instructor consent Attributes: B: Analysis of the Social World Social Science</p>										
		1258	001	1.0	Vladimir Kontorovich	T Th	2:30PM	4:00PM	STO14	4
ECON	H282B	Inequality and Public Policy								
<p>An exploration of the relationship between policy and economic outcomes—or "who gets what"—in the United States. We will examine the causes of rising inequality and its effects on American democracy, with a focus on wages, taxes, healthcare, education, and criminal justice. Crosslisted: Economics, Political Science Prerequisite(s): ECON 105 or instructor consent Attributes: A: Creative Expression Visual Studies Humanities</p>										
		1519	001	1.0	Michael Levere	M W	10:00AM	11:30AM		0
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 components, but also to gain practical experience by assessing a particular set of potential impact investments, making</p>										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
formal presentations of findings to an investment committee leading to a recommendation for investment to a partnering foundation. Crosslisted: Economics, Independent College Programs, PJHR Prerequisite(s): ECON 104 or 105 or 106 Enrollment Limit: 16										
		1282	001	1.0	Shannon B. Mudd	F	1:00PM	2:00PM	STO102	14
		1282	001	1.0	Shannon B. Mudd	M W	1:00PM	2:30PM	STO102	14
ECON	H300B	Intermediate Microeconomic Analysis								
Microeconomic theory has developed around the analysis of Adam Smith's "invisible hand" conjecture. To test this conjecture, we model the behavior of economic actors (consumers and firms) and their interaction in different markets. These models allow us to investigate the conditions under which these markets work well, less well, or not at all. In the process, basic tools and concepts used in other areas of economics are developed. Many of the topics covered in Introduction to Economics (ECON 105/106) are studied more rigorously and in greater depth. New topics, such as behavior under risk, insurance, and imperfect information, are introduced. Prerequisite(s): ECON 201 Attributes: C: Physical and Natural Processes Social Science A: Meaning, Interpretation (Texts) B: Analysis of the Social World										
		1772	001	1.0	Giridhar Parameswaran					0
		1773	00A	.0	Giridhar Parameswaran	T	1:00PM	2:30PM		0
		1774	00B	.0	Giridhar Parameswaran	T	2:30PM	4:00PM		0
ECON	H302A	Intermediate Macroeconomic Analysis								
Analysis of the behavior of aggregate economic variables such as GDP, inflation, unemployment, interest rates, and the budget and trade deficits. Structured around the development of a New Keynesian/Neoclassical general equilibrium model which relates the markets for goods, money, and labor. Specific topics include: determinants of the business cycle, effects of fiscal and monetary policies, supply shocks, inflationary expectations. Prerequisite(s): ECON 104 or 105 or 106 Attributes: Natural Science										
		1755	001	1.0	Alberto Arredondo-Chavez	T Th	10:00AM	11:30AM	TRLR-OBS	18
ECON	H304A	Introduction to Econometrics								
Development of econometric theory introduced in Economics 203. Includes topics such as ordinary least squares estimation, weighted least squares estimation, estimation of models with nonlinear forms, instrumental variables, and maximum likelihood estimation. Emphasis will be on application of econometric techniques to real economic and social policy issues such as the optimality of speed limit control, AIDS awareness and behavior modification, labor market discrimination, and worker productivity. Students will be expected to use data sets to evaluate policy issues and will be required to make a final presentation of findings in class. Prerequisite(s): ECON 104, 105 or 106; MATH 118 (or equivalent of 2 semesters of college calculus); ECON 203 or 204 or MATH 203 or SOCL 215 or PSYCH 200, or Bryn Mawr's ECON B253 Attributes: B: Analysis of the Social World A: Meaning, Interpretation (Texts) Humanities										
		1255	001	1.0	Anne Preston	M W	10:00AM	11:30AM	FDR220	30
		1756	00A	.0	Anne Preston					26
		1757	00B	.0	Anne Preston					4
ECON	H315A	Urban Economics								
Urban economics uses economic principles and techniques to study human location decisions with a particular emphasis on the city. This course will introduce classical urban economic theory as well as exploring contemporary urban economic research. Topics include agglomeration effects, urban land markets and rent patterns, zoning and local government, US housing markets, crime, transportation, and the impact of COVID-19 on cities. Readings will mix textbook presentation of core ideas and papers from the field. Pre-requisite(s): ECON 300 Attributes: Africana Studies B: Analysis of the Social World A: Creative Expression										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
		2511	001	1.0	Timothy Lambie-Hanson	M W	11:30AM	1:00PM	LUT211	10
ECON	H355B	Advanced Microeconomics: Uncertainty								
		Using microeconomics we study theories of choice under uncertainty; risk aversion and applications to insurance and portfolio choice; equilibrium under uncertainty in asset markets; asymmetric information; applications to the design of incentives, contracts, contests, and auctions; common; understanding and coordination.								
		Prerequisite(s): MATH 121 or 216; Econ majors: ECON 300; Non-Econ majors: ECON 104 or 105 or 106 and at least one of ECON 300 or MATH 215								
		1775	001	1.0	Giridhar Parameswaran	T	8:30PM	10:00PM		0
ECON	H372A	Junior Research Seminar: Advanced International Trade								
		This seminar-based course covers topics in international trade theory and policy, and foreign direct investment. Determinants of international trade and foreign investment will be analyzed, and we will examine the motivations for and consequences of tariffs and quantitative restrictions on trade. Topics include dynamic comparative advantage, factor movements and multinational corporations, effects of trade on economic growth and income inequality, international trade policy negotiations, the economics of trade agreements and disputes, and regional economic integration.								
		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)								
		Enrollment Limit: 15								
		Attributes: Natural Science								
		1758	001	1.0	Saleha Jilani	T	1:30PM	4:00PM	STO10	10
ECON	H378A	Junior Research Seminar: Sports as an Economics Laboratory								
		A research seminar analyzing contemporary journal articles which use sports data to answer important economics questions in industrial organization, labor economics, game theory, and behavioral economics.								
		Prerequisite(s): Econ 300 or Econ B200 at Bryn Mawr; Econ 304 (can be taken concurrently); Math 118 (or equivalent of 2 semesters of college calculus), or instructor consent								
		Enrollment Limit: 15								
		Attributes: B: Analysis of the Social World Social Science								
		1259	001	1.0	Anne Preston	M W	1:00PM	2:30PM	STO205	7
ECON	H383A	Junior Research Seminar: Health Economics								
		This seminar examines the ways that health care differs from the rest of the economy. We will learn about the demand for health care from the consumer's perspective and the supply of health care from the perspective of providers. Additional topics include healthcare disparities, Medicare, Medicaid, the Affordable Care Act, the opioid epidemic, and recent research on COVID-19.								
		Pre-requisite(s): Econ 300, Econ 304-corequisite								
		Lottery Preference: Majors, Seniors and then juniors								
		Enrollment Limit: 15								
		1598	001	1.0	Michael Levere	M W	1:00PM	2:30PM	LUT230	2
ECON	H384B	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								
		1588	001	1.0	Michael Levere	M W	1:00PM	2:30PM		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)								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<i>Attributes: Social Science B: Analysis of the Social World</i>										
		1260	001	1.0	TBA Department staff	M	7:30PM	10:00PM	STO10	35
		1260	001	1.0	Saleha Jilani	Th	2:30PM	4:00PM	STO10	35
ECON	H396B	Research Seminar								
Must be a senior Economics major.										
Prerequisite(s): ECON 304; an ECON 37X Jr. Research Seminar; ECON 396A.										
		2540	001	1.0	Anne Preston					1
		1264	001	1.0	Saleha Jilani					0
		1265	002	1.0	Alberto Arredondo-Chavez					0
		1266	003	1.0	Giridhar Parameswaran					0
		1267	004	1.0	Michael Levere					0
		1268	005	1.0	Carola Binder					0
		1269	006	1.0	Richard J. Ball					0
		1776	007	1.0	Anne Preston					0
		1777	008	1.0	Timothy Lambie-Hanson					0
ECON	H480A	Independent Study								
		1263	001	1.0	Alberto Arredondo-Chavez					0
		1636	002	1.0						0
ECON	H480B	Independent Study								
		1273	001	1.0						0
ECON	H480I	Independent Study								
		1287	001	.5						0
		1270	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										
		1157	001	1.0	Alison Cook-Sather	M	7:30PM	10:00PM	STO104	22
EDUC	H266B	Schools in American Cities								
This course examines issues, challenges, and possibilities of urban education in contemporary America. We use as critical lenses issues of race, class, and culture; urban learners, teachers, and school systems; and restructuring and reform. While we look at urban education nationally over several decades, we use Philadelphia as a focal "case" that students investigate through documents and school placements. Fieldwork is required.										
Prerequisite(s): EDUC 200 or instructor consent										
Enrollment Limit: 18										
Lottery Preference(s): Priority for students completing the minor in Educational Studies or teacher certification										
<i>Attributes: C: Physical and Natural Processes Natural Science Quantitative</i>										
		1885	001	1.0	Kelly Gavin Zuckerman	M W	10:00AM	11:30AM		0
EDUC	H275A	Emergent Multilingual Learners in U.S. Schools								

Haverford College Fall 2022 Course Guide

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): Priority to students pursuing a minor in Educational Studies or teacher certification</p>						
		1158	001	1.0	Kelly Gavin Zuckerman	M W	10:00AM	11:30AM	UN111	14	
EDUC	H301A	Curriculum and Pedagogy Seminar									
					<p>A consideration of theoretical and applied teacher preparation related to effective curriculum design, pedagogical approaches and related issues of teaching and learning leading to the creation of an extensive professional and reflective portfolio. Fieldwork required.</p> <p>Prerequisite(s): EDUC 200 or instructor consent</p> <p>Enrollment Limit: 15</p> <p>Lottery Preference(s): Priority to seniors pursuing a minor in Educational Studies or teacher certification</p>						
		1159	001	1.0	Chanelle Elizabeth Wilson	T	7:30PM	10:00PM	STO102	12	
EDUC	H302B	Practice Teaching Seminar									
					<p>Drawing on participants' diverse student teaching placements, this seminar invites exploration and analysis of ideas, perspectives and approaches to teaching at the middle and secondary levels. Taken concurrently with Practice Teaching, and open only to students engaged in practice teaching.</p> <p>Prerequisite(s): EDUC 200, EDUC 301, and additional coursework in teacher certification program; or instructor consent</p> <p>Enrollment Limit: 15</p> <p>Lottery Preference(s): Students pursuing teacher certification</p>						
		1531	001	1.0	Chanelle Elizabeth Wilson	T	7:30PM	10:00PM		0	
EDUC	H311B	Theories of Change in Educational Institutions									
					<p>Drawing on students' weekly fieldwork, this seminar will explore how educational practice reflects and informs theories of change and pathways of action. Students their own theory of change; analyze the theories of change underlying their field sites; and develop skills and strategies for persisting in creative independence and interdependence with institutions. Areas of focus include teacher research and academic research, business models, network and relational models, mindfulness and listening, journalism, social media, museum studies and artistic expression. We bring these considerations to a reading of a current education reform initiative, The Baltimore Algebra Project, as a means of exploring the intersections of personal and structural growth.</p> <p>Prerequisite(s): Limited to students completing the minor in Educational Studies, or instructor consent</p> <p>Enrollment Limit: 18</p> <p>Lottery Preference(s): Seniors completing the minor in Educational Studies</p>						
		1532	001	1.0	Kelly Gavin Zuckerman	T	1:30PM	4:00PM		0	
EDUC	H360A	Learning-Teaching a Foreign Language									
					<p>This course is designed for the advanced student of Spanish, who is interested in the processes involved in learning a foreign language, and/or contemplating teaching it. This course is conducted in Spanish.</p> <p>Crosslisted: Spanish, Education</p> <p>Prerequisite(s): One 200-level course, or instructor consent</p>						
		2325	001	1.0	Ana López-Sánchez	T Th	2:30PM	4:00PM	STO205	1	
ENGL	H101A	Theories of the Novel									
					<p>This course introduces students to the genre of the novel in English with a focus on desire, loss, and literary form. In order to ask the questions, "Why and how do we read novels? What does this experience enable?" we will interrogate theories of the novel, its early formation and contemporary forms. We will also consider changing cultural representations of subjectivity, nation, race, gender, and ways of reading. How is the reader variously constructed as witness to (and participant in) desire and its demise? How do developments in narrative voice influence the idea of fiction as a didactic,</p>						

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
Pre-requisite(s): First year writing seminar Lottery Preference: English majors and PJHR concentrators. Enrollment Limit: 35.00 Attributes: Quantitative Scientific Computing Data Science Natural Science C: Physical and Natural Processes 2563 001 1.0 Lindsay V. Reckson T Th 1:00PM 2:30PM 0										
ENGL	H232B				The Graphic Novel: Narratives in Long-form Comics					
This course will explore narrative representation in the comics medium, particularly the way graphic narratives accommodate multiple literary genres such as fiction, fantasy, memoir, biography, and history. By examining the interplay between image and text in graphic novels, it will consider the aesthetics and politics of visual literacy and multi-modality in relation to representations of history, memory, cultural difference, mental illness, gender, sexuality, political struggle, and trauma. Enrollment Limit: 25 Attributes: Natural Science C: Physical and Natural Processes 1631 001 1.0 TBA Department staff M W 10:00AM 11:30AM 0										
ENGL	H249A				Introduction to Asian American Literature					
This course will explore the diversity of Asian American experience by studying a selection of foundational and emerging works by Asian American writers. Assigned readings of various literary genres will address themes such as immigration, generational conflict, racism, assimilation, difference, and political struggle. Key lines of inquiry include: What does Asian American identity, culture, and aesthetic look like? How do writers represent them? What does the racial and literary category "Asian American" constitute? Crosslisted: ENGL. Pre-requisite(s): None 1599 001 1.0 Elizabeth Kim T Th 1:00PM 2:30PM HLL106 17										
ENGL	H254B				Romanticism and the Novel					
The course begins with a sampling of Romantic poetry (Coleridge, Byron, Keats) and then proceeds to study Gothic fiction (Zastrozzi, Frankenstein), Hogg's Confessions of a Justified Sinner, and the novels of Austen (Sense and Sensibility), the Brontes (Wuthering Heights, Jane Eyre), and Dickens (Oliver Twist). 2463 001 1.0 C. Stephen Finley M W 2:30PM 4:00PM 0										
ENGL	H267A				Global SF since 1945					
SF—science fiction, speculative fiction—is the primary allegorical mode of the contemporary world and permits reflections upon and critiques of the world we inhabit today. This course explores the explosion of the genre in the decades since the WWII and the advent of atomic weapons. We will read classics of post-apocalyptic fiction from the '50s and '60s before turning to stories that engage queer identities, Afrofuturism and African Futurism, and the global threat of climate change. Crosslisted: ENGL. Pre-requisite(s): None Lottery Preference: Reserve 10 spaces for First Year Students 2518 001 1.0 Maud B McInerney M 7:30PM 10:00PM VCAM201 21										
ENGL	H272A				Topics in Irish Literature: Joyce/Beckett					
Looks at the work of these two major figures as epitomizing an Irish rhetoric in post-colonial reading which "enacts a movement that begins in aphasia and ends in eloquence" [Seamus Deane], in this case in a comprehensive reading of Joyce in the most prolix of texts, Ulysses and Finnegans Wake, and Beckett, where texts seemingly court in silence their own undoing. Enrollment Limit: 30 1837 001 1.0 Debora Sherman T Th 2:30PM 4:00PM LUT230 8										
ENGL	H273B				Modern British Literature					
An exploration of literary modernism in Britain through analysis of fiction, criticism, and aesthetic manifestos in their historical contexts. 1873 001 1.0 Rajeswari Mohan T Th 2:30PM 4:00PM 0										
ENGL	H274B				Modern Irish Literature					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					Irish literature from Swift to Seamus Heaney, with attention to language as a "fissured terrain" (Eagleton) that reflects the complex geographic violence, political history, and cultural conditions of an often-contested national literature, colonial and post-colonial.						
					1878 001 1.0					0	
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						
					1376 001 1.0	Thomas Devaney	F	1:30PM	4:00PM	WDS	15
ENGL	H291B				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: B: Analysis of the Social World Social Science</i>						
					1575 001 1.0	Elizabeth Kim	F	11:00AM	1:30PM		0
ENGL	H292B				Creative Writing: Poetry II						
					English 292 is an advanced creative writing workshop. The workshop involves both reading and writing poetry. Students will have the opportunity to expand their repertoire by modeling their pieces on the work of various poets including: Susan Howe, Morgan Parker, M.S. Merwin, and Ocean Vuong. We will analyze and investigate issues of form related to entire books and poetry collections. A final portfolio of revised work is required.						
					Prerequisite(s): Writing sample required for consideration. Submit writing sample to Dept. of English in Woodside Cottage.						
					Enrollment Limit: 15						
					1374 001 1.0	Thomas Devaney	F	1:30PM	4:00PM		0
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						
					1381 001 1.0	TBA Department staff	F	11:00AM	1:30PM	HLL112	14
ENGL	H294B				Creative Writing: Fiction II						
					Students in the Advanced Fiction Workshop will not only continue to hone the basic elements of their fiction, including character development, dialogue, plot and prose style, but will focus much of their efforts on revision and the process of "finishing" a story.						
					Prerequisite(s): One fiction writing course or instructor consent, and submission of writing sample to course professor						
					Enrollment Limit: 15						
					1368 001 1.0	TBA Department staff					0
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						
					1382 001 1.0	Maud B McInerney	T Th	10:00AM	11:30AM	WDS	10
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						

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					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.					
		1377	001	.5	TBA Department staff					4
		1636	001	.5	TBA Department staff					0
ENGL	H299B				Junior Seminar II					
					Part II of the sequence focuses on narrative and its theorization and criticism. Readings include George Eliot's Middlemarch, stories by Henry James and Edgar Allan Poe, and James Joyce's Ulysses.					
					Prerequisite(s): ENGL 298 or instructor consent					
					Enrollment Limit: 17					
		1369	001	1.0	Maud B McInerney	T Th	10:00AM	11:30AM		0
ENGL	H304A				Dreaming the Medieval Landscape					
					This course enters the imagined landscapes of the medieval period through one of its most popular genres: the dream vision. We'll explore visions of strange forests, mystical gardens, glass temples, and jeweled cities; visions that offer potential for divine insight into the natural order of the universe but also possess surprising specificity in their plant, animal, and inanimate inhabitants. In addition to literary texts, we'll read selections from medieval natural philosophy and contemporary ecocritical theory.					
					Lottery Preference: English majors by seniority					
					Enrollment Limit: 15.00					
		2798	001	1.0	Danielle Allor	T	7:30PM	10:00PM		2
ENGL	H309A				Against Death: Opposing Capital Punishment in American Literature and Culture					
					Advanced inquiry into creative and critical responses to the death penalty in the United States from the 1830s to the 1970s. Our aim is to explore the relationship between art and social protest, and to examine how capital punishment has manifested U.S. histories of race, class, gender, religion, and sexuality. Readings in primary historical materials, literary and cultural analysis, and critical theory.					
					Pre-requisite(s): Freshman writing, plus one 200-level ENG course; or freshman writing plus PEAC101 or PEAC201.					
					Crosslisted: ENGL and PEAC					
					Enrollment Limit: 15					
					Lottery Preference(s): Class is open to 12 junior and senior students concentrating in Peace, Justice, and Human Rights OR majoring in English. 3 spaces reserved for undeclared sophomores.					
					Attributes: Natural Science Quantitative C: Physical and Natural Processes					
		1838	001	1.0	Lindsay V. Reckson	F	11:00AM	1:30PM	WDS	12
ENGL	H346B				New(s) Media, Print Culture					
					This course explores a century of critical response and creative media innovation (1670-1770) in relation to questions about form, materiality, circulation, authority, and embodiment across genres. What structures control systems of knowledge and creative production in eighteenth-century Britain and how do these help us think about current incarnations of readership and form today? Our most ambitious texts will be Laurence Sterne's novel Tristram Shandy—a meditation on experimental fiction, mortality, history, and digression; and Anne Carson's experimental poem Nox. The course is part of the Philadelphia Area Creative Collaboratives initiative and will work closely with poet Anne Carson and Philadelphia theater group Lightning Rod Special. Some performance workshops and travel off campus will be required. Interdisciplinary students welcome.					
					Crosslisted: English, Visual Studies					
					Prerequisite(s): At least one 200-level ENGL course or instructor consent					
					Enrollment Limit: 15					
					Lottery Preference(s): Juniors and Seniors					
					Attributes: Quantitative Natural Science C: Physical and Natural Processes					
		1883	001	1.0	Laura McGrane					0
ENGL	H353B				Victorian Poverty, Ecology, and Public Health					
					This course will be centered upon the homeless and working poor of the 1840s and 1850s as they are described in the literature and social documents of the period. We focus on the relationship between human destitution and environmental					

Haverford College Fall 2022 Course Guide

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Enrollment Limit: 40 Lottery Preference(s): Junior minors in ENV5; Sophomores; 5 spaces for Frosh Attributes: <i>Scientific Computing</i> <i>Data Science</i> <i>C: Physical and Natural Processes</i> <i>Quantitative</i> <i>Natural Science</i> 2561 001 1.0 Talia Young T Th 10:00AM 11:30AM STO131 40										
ENV5	H201A	Environmental Science								
A survey of environmental science, focusing on key issues in the solid, living, and fluid Earth, using campus as a living lab. Exploration of analytical techniques, scientific knowledge production, application-oriented scientific reporting, and historical context for sites of study. Includes field-based research, long-term monitoring, analysis of multiple datasets, laboratory analysis, and communication of findings to diverse audiences, where appropriate. Prerequisite(s): ENV5 101 Enrollment Limit: 15 Lottery Preference(s): Senior ENV5 majors, then Junior ENV5 Majors, then Sophomores, ENV5 minors, everyone else 1401 001 1.0 Jonathan Wilson Th 1:30PM 4:00PM HLS109 15 2503 002 1.0 Jonathan Wilson T 1:30PM 4:00PM HLS109 2										
ENV5	H307B	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): ENV5 101; and at least one of ENV5 201-204, or permission of the instructor. Familiarity and comfort with general biology and algebra. Enrollment Limit: 25 Lottery Preference(s): ENV5 majors, then sophomores, then ENV5 minors. Attributes: <i>Natural Science</i> 1633 001 1.0 TBA Department staff 0										
ENV5	H312A	Black & Asian Foodways: An Exploration								
This course will examine environmental and social histories of Black and Asian foods and cuisines in the US, including an introduction to environmental food studies, US Black and Asian migration histories, conflict, and solidarity, and case studies of specific foods. Prerequisite(s): ENV5 101 and at least one of ENV5 201-204; or permission of instructor Enrollment Limit: 15 Lottery Preference(s): ENV5 majors, then Sophomores, then ENV5 minors 1532 001 1.0 Talia Young T Th 11:30AM 1:00PM STO104 15										
ENV5	H313B	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): ENV5 101 and least one of ENV5 201-204 or permission of instructor. Enrollment Limit: 15 2245 001 1.0 TBA Department staff 0										
ENV5	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): ENV5 101 and ENV5 201; or, ENV5 101 and permission of instructor Lottery Preference: ENV5 seniors, followed by ENV5 juniors, followed by ENV5 minors. Enrollment Limit: 15.00 2649 001 1.0 David Hunt Backus T Th 10:00AM 11:30AM HLS204 0										
ENV5	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.										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<p>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</p>										
	2513	001	1.0	Jonathan Wilson	T Th	10:00AM	11:30AM	SHA113		15
	2514	002	1.0	Jonathan Wilson	T Th	11:30AM	1:00PM	SHA113		11
ENVS	H358E	Topics in Environmental Chemistry: Toxic Heavy Metals								
<p>This course will examine chemical processes that occur in natural waters, soils and the atmosphere. Specific topics will be chosen with input from enrolled students, who will be expected to share in discussion leadership. CHEM 358 may be repeated once for credit as long as the topical themes differ. Crosslisted: Chemistry, Environmental Studies Prerequisite(s): CHEM H222 (or other organic chemistry course such as CHEM B211) Attributes: <i>Africana Studies Social Science Health Studies B: Analysis of the Social World</i></p>										
	2506	001	.5	Robert C. Scarrow	T Th	8:30AM	10:00AM	SHA113		1
ENVS	H397A	Senior Seminar in Environmental Studies								
<p>This capstone Environmental Studies course is designed to allow Environmental Studies seniors to actively engage in environmental problem solving by bringing the perspectives and skills gained from their majors and applying them to collaborative, interdisciplinary projects. Enrollment Preference(s): Limited to seniors</p>										
	1414	001	1.0	TBA Department staff	Th	1:30PM	4:00PM	SHA410		16
ENVS	H397B	Senior Seminar in Environmental Studies								
<p>This capstone Environmental Studies course is designed to allow Environmental Studies seniors to actively engage in environmental problem solving by bringing the perspectives and skills gained from their majors and applying them to collaborative, interdisciplinary projects. Enrollment Preference(s): Limited to seniors</p>										
	1361	001	1.0	TBA Department staff	Th	1:30PM	4:00PM			0
ENVS	H408A	Senior Research Tutorial in Plant Biology and Evolution								
<p>Plants are an important interface between biology and the environment, and the study of plants' evolutionary history illuminates this interaction. This course will focus on the physiology and evolution of living and extinct plants. Techniques employed include anatomical studies of living and fossil plant tissues; imaging and quantitative investigation of plant structure; and the collection and analysis of fossil plant material. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 Attributes: <i>B: Analysis of the Social World Humanities A: Meaning, Interpretation (Texts) Visual Studies</i></p>										
	2254	001	1.0	Jonathan Wilson						2
ENVS	H408B	Senior Research Tutorial in Plant Biology and Evolution								
<p>Plants are an important interface between biology and the environment, and the study of plants' evolutionary history illuminates this interaction. This course will focus on the physiology and evolution of living and extinct plants. Techniques employed include anatomical studies of living and fossil plant tissues; imaging and quantitative investigation of plant structure; and the collection and analysis of fossil plant material. Exploration of the primary literature and various opportunities to hone scientific communication skills will supplement lab work. Prerequisite(s): Instructor consent Enrollment Limit: 7 Attributes: <i>Peace, Justice and Human Rights Social Science</i></p>										
	2243	001	1.0	Jonathan Wilson						0
ENVS	H408I	Senior Research Tutorial in Plant Biology and Evolution								
<p>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.</p>										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					<p>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</p>						
		2244	001	.5	Jonathan Wilson					0	
ENVS	H480F	Independent Study									
		2891	001	.5	Talia Young					0	
FREN	H001A	Elementary French									
		<p>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</p>									
		1006	001	1.0	Christophe Corbin	M T W Th F	9:30AM	10:30AM	STO102	1	
FREN	H002B	Elementary French Non Intensive									
		<p>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</p>									
		1052	001	1.0	Kathryne Adair Corbin	M T W Th F	9:30AM	10:30AM		0	
FREN	H003A	Intermediate French Non Intensive									
		<p>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.</p>									
		1007	001	1.0	Kathryne Adair Corbin	M W F	10:30AM	11:30AM	STO102	0	
		1008	002	1.0	David Sedley	M W F	11:30AM	12:30PM	GST103	2	
FREN	H004B	Intermediate French									
		<p>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</p>									
		1053	001	1.0	Christophe Corbin	M W F	10:30AM	11:30AM		0	
		1054	002	1.0	Kathryne Adair Corbin	M W F	11:30AM	12:30PM		0	
FREN	H101A	Introduction à l'analyse littéraire et culturelle I									
		<p>Presentation of essential problems in literary and cultural analysis by close reading of works selected from various periods and genres and by analysis of voice and image in French writing and film. Participation in discussion and practice in written and oral expression are emphasized, as are grammar review and laboratory exercises. Prerequisite(s): FREN 003 and 004, or French placement exam</p>									
		1009	001	1.0	Koffi Anyinefa	T Th	10:00AM	11:30AM	GST102	9	
		1010	002	1.0	David Sedley	M W	2:30PM	4:00PM	GST102	17	

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
FREN	H102B									
<p>Introduction a l'analyse litteraire et culturelle II: Rêves d'empire et Renaissance française</p> <p>Continued development of students' expertise in literary and cultural analysis by emphasizing close reading as well as oral and written analyses of works chosen from various genres and periods of French/Francophone works in their written and visual modes. Readings begin with comic theatre of the seventeenth and eighteenth centuries and build to increasingly complex nouvelles, poetry, and novels of the nineteenth and twentieth centuries. Participation in guided discussion and practice in oral/written expression continue to be emphasized, as are grammar review and laboratory exercises. Offered in second semester.</p> <p>Prerequisite(s): FREN 005 or 101</p>										
	1055	001	1.0	David Sedley		T Th	11:30AM	1:00PM		0
FREN	H105B									
<p>Directions de la France contemporaine</p> <p>An examination of contemporary society in France and Francophone cultures as portrayed in recent documents and film. Emphasizing the tension in contemporary French-speaking societies between tradition and change, the course focuses on subjects such as family structures and the changing role of women, cultural and linguistic identity, an increasingly multiracial society, the individual and institutions (religious, political, educational), and les loisirs. In addition to the basic text and review of grammar, readings are chosen from newspapers, contemporary literary texts, magazines, and they are complemented by video materials. Offered in the second semester.</p> <p>Prerequisite(s): FREN 005 or 101</p>										
	1056	001	1.0	Kathryne Adair Corbin		T Th	1:00PM	2:30PM		0
FREN	H250A									
<p>Introduction à la Littérature Francophone: Ecritures/Fictions de soi francophones</p> <p>Writing, reflecting, about one's life necessarily involves writing about others. How do contemporary Francophone writers and filmmakers understand and express the inter-relational nature of selfhood, identity, and community? In this course we will study a representative sample of Francophone literary and filmic texts in light of current perspectives on postcolonial autobiographical narratives. Possible writers and filmmakers may include Al Malik, Begag, Bouraoui, Bugul, Chamoiseau, Feraoun, Kane, Peck, Pineau and Rahmani.</p> <p>Prerequisite(s): FREN 101 and 102/105, or 005 and 102/105</p>										
	2475	001	1.0	Koffi Anyinefa		T Th	2:30PM	4:00PM	GST102	12
FREN	H254B									
<p>French in English: Colonialism Through French and Francophone Films</p> <p>Crosslisted: COML.</p> <p>Pre-requisite(s): First-year writing course</p>										
	1589	001	1.0	Koffi Anyinefa		T Th	10:00AM	11:30AM		0
FREN	H262A									
<p>Débat, Discussion, Dialogue</p> <p>The art of conversation and debate has a long history in French culture. For the French, to engage in constructive public debate is often divisive, yet offers a way to negotiate solutions. Debate in more intimate situations fosters respect among colleagues, friends, and strangers. In this course, students will build oral and analytical skills by engaging in the discussion of topics ranging from philosophical to political as we consider current events of the Francophone world.</p>										
	2477	001	1.0	Kathryne Adair Corbin		M W	1:00PM	2:30PM	OBS	3
FREN	H312A									
<p>Adv Topics French Literature: L'éducation et ses sujets chez Descartes, La Fontaine et Rousseau</p> <p>The goal of this course is to put modern ideas about education into historical perspective by looking at some of their early-modern French counterparts. Will consider how certain subjects— inclusivity, civility, technology, poetry, reason, and passions, as well as persons of different social categories—developed into educational fixtures. The syllabus will centrally feature three authors whose works connect and collide with one another: Descartes, La Fontaine, and Rousseau. We will also read some recent pedagogical theories in order to see how they reflect, reform, or reject early-modern notions.</p> <p>Crosslisted: FREN and COML</p>										
	1011	001	1.0	David Sedley		F	1:30PM	4:00PM	HLL112	5
FREN	H312B									
<p>Adv Topics French Lit: Migrations: Hospitalités et hostilités</p> <p>In French.</p> <p>Crosslisted: FREN and COML</p>										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					Prerequisite(s): At least one 200-level course						
		1058	001	1.0	Koffi Anyinefa	M	1:30PM	4:00PM		0	
FREN	H399B	Senior Thesis									
		1057	001	1.0	TBA Department staff					0	
GERM	H001A	Elementary German									
		Meets five hours a week with the individual class instructor, one hour with student drill instructors. Strong emphasis on communicative competence both in spoken and written German in a larger cultural context. This is a year-long course; both semesters (001 and 002) are required for credit.									
		Enrollment Limit: 18									
		1353	001	1.0	Michael Austin Burri	M T W Th F	8:30AM	9:30AM	HLL6	10	
GERM	H002B	Elementary German									
		Meets five hours a week with the individual class instructor, one hour with student drill instructors. Strong emphasis on communicative competence both in spoken and written German in a larger cultural context. This is a year-long course; both semesters (001 and 002) are required for credit.									
		Enrollment Limit: 18									
		<i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i>									
		1340	001	1.0	TBA Department staff	M T W Th F	8:30AM	9:30AM		0	
GERM	H101A	Intermediate German									
		Meets three hours a week with the individual class instructor, one hour with student drill instructor. Thorough review of grammar, exercises in composition and conversation. Enforcement of correct grammatical patterns and idiomatic use of language. Study of selected literary and cultural texts and films from German-speaking countries. Two semesters.									
		Enrollment Limit: 18									
		1354	001	1.0	Imke Brust	M W F	9:30AM	10:30AM	GST103	6	
GERM	H102B	Intermediate German									
		Meets three hours a week with the individual class instructor, one hour with student drill instructor. Thorough review of grammar, exercises in composition and conversation. Enforcement of correct grammatical patterns and idiomatic use of language. Study of selected literary and cultural texts and films from German-speaking countries. Two semesters.									
		Enrollment Limit: 18									
		<i>Attributes: A: Meaning, Interpretation (Texts) Humanities</i>									
		1341	001	1.0	Imke Brust	M W F	9:30AM	10:30AM		0	
GERM	H210B	The City of Brotherly Love - Images of a Changing City									
		The course would explore the history of Philadelphia as a (German) immigrant city and through engaging different materials and visiting specific institutions in the city, our analysis would scrutinize how the city's neighborhoods demographically and visually transformed over time.									
		Prerequisite(s): Subject to TriCo Philly Program application									
		Enrollment Limit: 15									
		<i>Attributes: A: Meaning, Interpretation (Texts)</i>									
		2441	001	1.0	Imke Brust	M	12:00PM	3:00PM	FRDCTR1	0	
GERM	H215A	Sinn und Wahnsinn: Literatur, Kunst und Medizin im 18. und 19. Jahrhundert									
		The seminar is designed to give a broad overview of the various aesthetic trends which have shaped contemporary German-speaking literature. Focusing on representative works--including prose, drama, and poetry--this course will retrace and engage with the historical role of literature in the German speaking world over time, and access the importance of German literature in the current era of globalization and mass communication. Taught in German.									
		2470	001	1.0	Margaret Strair	T Th	2:30PM	4:00PM	STO207	9	
GERM	H320A	Impossible Representations of the Holocaust in German Drama and Film									
		This course will provide a historical overview of the Holocaust, its origins, process, and outcomes, and how it has served as a mental map for the construction of contemporary German national identity. In this context, we will explore such topics									

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					An advanced seminar in Greek language and literature, with special emphasis on the interpretation and discussion of texts in Greek and the reading of relevant scholarship. Topic to be determined by faculty. May be repeated for credit. Prerequisite: GREK 201 or 202 or consent.						
					1819 001 1.0 Ava Shirazi	T	1:30PM	4:00PM		0	
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						
					2385 001 1.0 Lisa Jane Graham	T Th	2:30PM	4:00PM	HLL107	22	
HIST	H111B				Introduction to Western Civilization						
					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.						
					1138 001 1.0 Linda Gerstein	M W	1:00PM	2:30PM		0	
HIST	H114A				Origins of the Global South						
					This course analyzes the complex histories, shifting geographies, and unequal relationships of power denoted by the term "Global South," a designation that maps unevenly onto the formerly colonized regions of Latin America, Africa and Asia. As we shall see, the term is also at times used to describe marginalized populations and places within the "Global North," a convenient though not entirely accurate label for today's relatively rich and developed world regions. A basic concern of the course will be to assess how colonialism and its legacies have influenced world history, including the production of knowledge. Our collective goal will be to develop new ways of thinking about our pasts, presents and futures.						
					2205 001 1.0 James Krippner	M W	2:30PM	4:00PM	CHS101	19	
HIST	H118A				Introduction to the History of Science						
					Although science is an essential characteristic of the modern world, it took nearly 4000 years to attain that status. This course surveys various sciences in the past focusing on both how and why humans have interrogated the natural world, how they have categorized the resulting knowledge, and what uses they have made of it. Topics can include science and medicine in antiquity, Islamic sciences, Byzantine and medieval sciences, early-modern science and the Scientific Revolution. Enrollment Limit: 25						
					1164 001 1.0 Darin Hayton	M W	8:30AM	10:00AM	HLL112	25	
HIST	H125B				Introduction to Latin American and Latinx History						
					This course is an intensive history class designed around two goals: to give students an introduction to themes and debates in Latin American and Latinx History, and to provide hands-on practice toward doing research. We will focus on Indigenous histories of resistance and migration, gender studies, as well as intellectual and political trends across the American continents. Texts are interdisciplinary and include fiction, journalism, polemic, history, sociology, and anthropology. Enrollment Limit: 25.00						
					2377 001 1.0 Marlen Rosas	M W	10:00AM	11:30AM		0	
HIST	H206B				Health and Medicine in Modern American History						
					This course explores key themes in the history of medicine, health, and healing in the modern United States, including the evolution of the medical profession; the role of race, class, and gender in shaping medical ideas and practices; shifting burdens of disease; relationships between patients and practitioners; medical science and the rise of biomedicine; the social meanings of disease; relationships between medicine, industry, and public health; and hospitals and health insurance. Pre-requisite(s): None Enrollment Limit: 25 Lottery Preference: 1.) Declared Health Studies minors 2.) History Majors 3.) Everyone else						
					1526 001 1.0 Eli Anders	T Th	10:00AM	11:30AM		0	
HIST	H226A				Twentieth Century Europe						
					The emergence of the culture of Modernism; revolutionary dreams and Stalinist nightmares in Russia; Fascism; the trauma of war 1914-1945; the divisions of Cold War Europe; and the challenge of a new European attempt at re-integration in the 1990s.						
					1167 001 1.0 Linda Gerstein	M W	1:00PM	2:30PM	HLL201	16	

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
HIST	H239A				American Revolutions, 1763-1815 This course explores the tumultuous decades that transformed North America forever, from the periphery of a global empire into the seat of a new and distinct people who would create their own empire. But the story of the American Revolution is more than just the story of independence from England. The war of 1775-1783 was the intersection of several conflicts, of which the struggle between colonies and mother country was only one. Pre-requisite(s): None Lottery Preference: History majors, then sophomores and first years. Enrollment Limit: 25.00					
		2680	001	1.0	Simon Finger	M W	10:00AM	11:30AM		0
HIST	H246B				History of Sexuality in the U.S. This 200-level course will explore both "classic" and recent writings on the history of sexuality, focusing on questions of politics, power, and authority in order to understand the regulation of sexual practices, the social implications of sexual activity and identity, and the experiences, ideas, and conflicts that have shaped modern gay, lesbian, and transgender identities. Lottery Preference: History majors, Gen Sex concentrators, then Sophomores Enrollment Limit: 25.00 <i>Attributes: Quantitative C: Physical and Natural Processes Natural Science</i>					
		2564	001	1.0	Lori Ginzberg	T Th	11:30AM	1:00PM		0
HIST	H252B				History of Haverford College: Conflict, Consensus and the Liberal Arts This course provides a chance to work in the Haverford College archives, with guidance provided on how to analyze primary source evidence. Over the course of the semester we will debate and answer questions such as: How has Haverford College's status as a school of Quaker origin been significant and does that legacy remain relevant today? What is the purpose of a values-based undergraduate liberal arts education in the hyper-competitive, debt-fueled and increasingly consumerist educational marketplace found in the contemporary United States? Prerequisite(s): Sophomore standing or above. Enrollment Limit: 24					
		2250	001	1.0	James Krippner	T Th	2:30PM	4:00PM		0
HIST	H253A				The History of the US Built Environment, 1870 to the Present This course looks at the history of the U.S. through its built environment, or the physical spaces & landscapes through which Americans constructed their habits, hopes, and divisions. We will investigate how struggles over the U.S. polity came to be reflected in the built world. Topics include the creation of property, the building of the metropolis, the making of the suburbs, electrification and the highways, urban crisis, and the postindustrial landscape. Enrollment Limit: 25					
		2206	001	1.0	Andrew Friedman	T Th	11:30AM	1:00PM	HLL106	23
HIST	H259B				Cultures of Collecting Collecting, classifying and displaying natural artifacts acquired new significance in early-modern Europe and played an important role in the development of modern science. This course explores the motivations and contexts for such collecting and classifying activities.					
		2236	001	1.0	Darin Hayton	M W	11:30AM	1:00PM		0
HIST	H274B				History of the Andes This course presents a cultural and political history of the Andean region of South America. We will examine unique historical developments in this part of the world. The themes we will analyze include the influence of geography on early Andean civilizations, the cultural impact of conquest, land and labor systems, popular resistance movements, revolutions, military governments, neoliberalism, and the politicization of ethnic identities. Enrollment Limit: 25 <i>Attributes: Social Science</i>					
		1602	001	1.0	Marlen Rosas	M W	1:00PM	2:30PM		0
HIST	H291A				Indigenous Women: Gender, Ethnicity and Feminism in Latin America This course gives students an introduction to the themes and debates in the intersectional fields of Gender and Women's Studies, Race, Ethnic and Indigenous Studies, Latin American History, and Feminist Theory.					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Pre-requisite(s): None Lottery Preference: History majors, first and second year students, LAILS, and GenSex concentrators, with first priority for History and LAILS. Enrollment Limit: 25 1538 001 1.0 Marlen Rosas M W 10:00AM 11:30AM HLL112 25										
HIST	H295A	China in the World, 1895-1921								
We will read the history of late imperial and Republican China in global perspective, discerning ways in which world-historical dynamics—colonialism and anticolonialism, capitalist expansion and the Russian Revolution, World War I and the Treaty of Versailles—have shaped perceptions within and outside of China as to the nation’s place on the global stage. Attention is accorded not only to connections between China and the West, but also how Chinese nationalists engaged and imagined the colonized world. Crosslisted: EALC. Enrollment Limit: 25.00 2799 001 1.0 Ruodi Duan T Th 10:00AM 11:30AM 0										
HIST	H296B	China and Africa: Historical Encounters and Contemporary Legacies								
China's economic and cultural presence in Africa has expanded dramatically since 2000, especially after the launch of the "Belt and Road Initiative." But to understand the contemporary China-Africa relationship, it is essential to examine historical precedents. This course draws from scholarship, journalism, and culture to explore modes and implications of foreign aid, diverse experiences of travel and resettlement between China and Africa, and the role of race in past and present constructions of China-Africa relations. Crosslisted: EALC. Pre-requisite(s): N/A Enrollment Limit: 25.00 <i>Attributes: Natural Science Quantitative C: Physical and Natural Processes</i> 2584 001 1.0 Ruodi Duan M W 11:30AM 1:00PM 0										
HIST	H303A	Gender, Intimacy and U.S. Foreign Policy								
This course examines the arenas of gender, sex and intimacy as crucial to the formation of U.S. foreign policy and U.S. imperialism in and after two key historical moments, often summarized as the Spanish-American War and the Cold War. The course looks at how U.S. encounters abroad defined personal intimacies and everyday lives. It explores the ways that rhetorical strategies concerning the body, masculinity and femininity, feelings, friendship, and love became central to U.S. geopolitical practice and memory. Enrollment Limit: 15 2207 001 1.0 Andrew Friedman T 1:30PM 4:00PM VCAM102 13										
HIST	H309A	Knowledge, Power, and the Production of History in Latin America								
This course examines the revolutionary politics, emancipatory pedagogies, and struggles for liberation espoused by grassroots intellectuals, students, and working-class, peasant and indigenous activists in modern Latin America. We will consider questions of intellectual and political agency, as well as the political power of literacy, education, memories, and archives in the face of imperial threats throughout history. Enrollment Limit: 15 2519 001 1.0 Marlen Rosas W 1:30PM 4:00PM GST103 4										
HIST	H310B	Political Technologies of Race and the Body								
This course examines the technologies, ideologies, and material strategies that have created and specified human beings as racialized and gendered subjects in the U.S. Readings cover biopolitics, disability studies, material culture, histories of disease, medicine, violence and industrialization. In our discussions and research, we will aim to decode the production of "reality" at its most basic and molecular level. Crosslisted: History, Health Studies Enrollment Limit: 15 2248 001 1.0 Andrew Friedman T 1:30PM 4:00PM 0										
HIST	H312B	Sick City: Urban Health in American History								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					<p>This course examines cities as sites of public health concern in modern American history. We consider the meaning of "public health" as a distinct domain of action, expertise, and authority by thinking historically about why certain health problems have attracted public attention while others are seen as matters of private responsibility, how some urban spaces become sites of medical concern while others are neglected, and how race, class, and gender shape urban health interventions. Pre-requisite(s): HLTH H/B115, or any course in History, or permission of the instructor. Enrollment Limit: 15 Lottery Preference: 1.) Declared Health Studies seniors 2.) Declared Health Studies juniors 3.) History majors 4.) everyone else</p>						
		1527	001	1.0	Eli Anders	T Th	1:00PM	2:30PM		0	
HIST	H317B	Topics in Latin American Hist: Visions of Mexico									
		<p>This course traces the debates over land use, property rights, 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 poor have supported socialism as an alternative to capitalist exploitation, as a strategy to break colonial vestiges, and an anti-imperialist ideology. The course focuses on various case studies to address the meaning of socialism, how nationalist governments and grassroots movements have pursued socialistic policies to redistribute land, and who has fought against it. Attributes: B: Analysis of the Social World Social Science</p>									
		1580	001	1.0	James Krippner	F	1:30PM	4:00PM		0	
HIST	H340B	Topics in American History: Voices for Justice—Six African American Lives									
		<p>This course will use biographies and memoirs to explore the world and human-dignity strategies of six African American activists from the eighteenth, nineteenth, and twentieth centuries. Through the eyes and experiences of these individuals, the course examines the world(s) they inhabited, their interweaving with Quakers and Quaker ideas and activism--and how their efforts to analyze, navigate, and master their world have helped shape American history. Built around the biographies, writing and speeches of Massachusetts sea captain Paul Cuffee (1759-1817); Philadelphia entrepreneur James Forten (1766-1842); teacher/newspaper publisher/lawyer Mary Ann Shadd Cary (1823-1893); educator/missionary Fanny Jackson Coppin (1837-1913); Philadelphia abolitionist Sarah Mapps Douglass (1806-1882); and March-on-Washington coordinator Bayard Rustin (1912-1987), the course surveys not only these individuals, but also the America they inhabited and influenced. Each of these six lives intersected, in various ways, with Quaker people, ideas and activities.</p>									
		2524	001	1.0	Emma Lapsansky	T Th	1:00PM	2:30PM		0	
HIST	H346A	Race and Ethnicity in Modern East Asia									
		<p>Do East Asian notions of race and ethnicity extend from Western conceptualizations, or are they informed by indigenous traditions? How have racial and ethnic identities figured into popular imaginations of nationhood? Where does race begin and the nation end? This seminar examines race and ethnic constructs in East Asia through the twentieth century. We will draw from interdisciplinary scholarship to understand how national majority and minority identities have been categorized and reified across East Asia. Crosslisted: EALC. Enrollment Limit: 15.00 Attributes: Natural Science</p>									
		2801	001	1.0	Ruodi Duan	Th	1:30PM	4:00PM		0	
HIST	H350A	Topics in the History of Science: Astrology									
		<p>Astrology was the most broadly authoritative science in the premodern world, and astrologers were the purveyors of that science. This course traces the practice of astrology from the Hellenistic period to the end Renaissance. We will study who astrologers were and in what contexts they practiced their science. We will learn core astrological techniques that astrologers used to cast horoscopes and to justify their science to powerful patrons.</p>									
		2471	001	1.0	Darin Hayton	M	1:30PM	4:00PM	HLL106	14	
HIST	H354B	Amazons and Viragos: Gender and Power in Early Modern Europe									
		<p>Seminar meetings, reports and papers. May be repeated for credit with change of topic. Course introduces students to early modern European cultural history through a combination of theoretical texts, secondary literature, and primary sources. Recent topics include: Libertinage and Modernity; The Cultures of Resistance; and Law, Crime and Police in Early Modern Europe.</p>									
		2241	001	1.0	Lisa Jane Graham	W	1:30PM	4:00PM		0	

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
HIST	H356B				Topics in Modern European History: The Russian Novel Tolstoy, War and Peace (the Westernized aristocracy), Dostoevsky, Crime and Punishment (the terrorist intelligentsia), Pasternak's Dr. Zhivago (the Russian Revolution), and Grossman's Life and Fate (Russia's World War II.) <i>Attributes: Biochemistry and Molecular Biology C: Physical and Natural Processes Natural Science</i>					
	2440	001	1.0	Linda Gerstein	Th	1:30PM	4:00PM			0
HIST	H399A				Topics in Active History: Russian Empire, National Memories and Tales This course teaches students, in a collaborative setting, the practice of "active history." This is the dynamic praxis of deep history and nimble historical work as a mode of explaining, explicating and intervening in an urgent and shifting present. Topics will change in response to issues of contemporary import. Students will play a role in collaborative syllabus and curricular design. Pre-requisite(s): Change depending on topic. For this iteration, none. Enrollment Limit: 15 Lottery Preference: Change depending on topic. For this iteration, History students, sophomores					
	1168	001	1.0	Linda Gerstein	T Th	2:30PM	4:00PM	HLL201		10
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.					
	1169	001	1.0	Lisa Jane Graham	T	7:30PM	10:00PM	HLL201		5
	1170	002	1.0	Andrew Friedman	T	7:30PM	10:00PM	HLL106		5
	2208	003	1.0	James Krippner	T	7:30PM	10:00PM	HLL107		4
HIST	H400B				Senior Thesis Seminar History 400B is devoted to individual thesis research and writing. Prerequisite(s): HIST400A					
	1145	001	1.0	Darin Hayton						0
	1146	002	1.0	Andrew Friedman						0
	1147	003	1.0	James Krippner						0
	1148	004	1.0	Lisa Jane Graham						0
	1149	005	1.0	Linda Gerstein						0
	1150	006	1.0	TBA Department staff						0
	1151	007	1.0	Marlen Rosas						0
HIST	H480B				Independent Study Independent Study <i>Attributes: Africana Studies</i>					
	1700	001	1.0	TBA Department staff						0
HIST	H480I				Independent Study Independent Study <i>Attributes: Quantitative Natural Science C: Physical and Natural Processes</i>					
	1723	001	.5	TBA Department staff						0
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: 35 Lottery Preference(s): 20 spaces to first-year students, 15 spaces to others 1. Health Studies minors					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					also draw on students' own experiences giving and receiving care, on historical and current examples of care, and on literary and visual representations of caregiving. Enrollment Limit: 15 Lottery Preference(s): First, Health Studies seniors; second, students who must satisfy the academic requirement for CPGC internships; third priority to declared Health Studies juniors and students with health-related independent majors; fourth priority to students who completed Jaharis internships or have been accepted into the Haverford-Jefferson Medical School Early Admissions Program. Others can enroll if space permits. <i>Attributes: Natural Science</i>					
		2571	001	1.0	Carol Schilling	T Th	2:30AM	4:00AM		0
HLTH	H304B	Critical Disability Studies: Theory and Practice An examination of work in critical disability studies across a range of humanistic disciplines and an exploration of how disability theory and engaged community practice inform and shape one another. Depending on Covid guidelines the course may include a semester-long project in partnership with the Center for Creative Works, a community artspace for artists with intellectual disabilities. Enrollment Limit: 15 Lottery Preference: Health Studies seniors								
		1399	001	1.0	Kristin Anne Lindgren	T Th	2:30PM	4:00PM		0
HLTH	H309A	Trauma, Historical Memory, and Embodiment Historical memories of mass atrocity shape trauma and bodily experiences of present-day generations. This course is based on "hauntology," the study of traumatic historical memories which affect contemporary psychological and political processes, with readings from anthropology, history, philosophy, psychoanalysis and sociology. Crosslisted: Health Studies, Anthropology Prerequisite(s): HLTH 115 OR a 200-level anthropology or history class OR permission of instructor Enrollment Limit: 15 Lottery Preference(s): Health Studies minors, then Anthropology majors, then PJHR concentrators.								
		2262	001	1.0	Young Su Park	F	1:30PM	4:00PM	UN114	15
HLTH	H312B	Sick City: Urban Health in American History This course examines cities as sites of public health concern in modern American history. We consider the meaning of "public health" as a distinct domain of action, expertise, and authority by thinking historically about why certain health problems have attracted public attention while others are seen as matters of private responsibility, how some urban spaces become sites of medical concern while others are neglected, and how race, class, and gender shape urban health interventions. Pre-requisite(s): HLTH H/B115, or any course in History, or permission of the instructor. Enrollment Limit: 15 Lottery Preference: 1.) Declared Health Studies seniors 2.) Declared Health Studies juniors 3.) History majors 4.) everyone else								
		1401	001	1.0	Eli Anders	T Th	1:00PM	2:30PM		0
HLTH	H315A	Cancer Narratives Cancer is not merely the leading cause of mortality, but a significant metaphor to understand human experience in contemporary society. Despite triumphant hype of paradigm-shifts in clinical medicine, less attention has been paid to illness experiences of cancer patients, which cannot be reduced to numbers and diagnosis in description. Their living with uncertainties and hope, and navigating therapeutic and moral landscapes in resource-limited circumstances provide a lens to critically examine healthcare system and sociopolitical conditions. Pre-requisite(s): Any previous course in Health Studies Enrollment Limit: 15 Lottery Preference: First, Health Studies seniors; Second, Health Studies juniors, then Anthropology majors.								
		1418	001	1.0	Young Su Park	T	1:30PM	4:00PM	UN114	15
HLTH	H333A	The Anthropology of Migration and Global Mental Health: Politics, Epistemologies, Critiques How should anthropologists think about the relationship between migration and ongoing debates in the international psychiatric community about global mental health in theory and practice? What happens when both people and ideas move across								

Haverford College Fall 2022 Course Guide

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		2501	001	1.0	Regina K Velasco	T Th	1:00PM	2:30PM	STO16	20
ICPR	H247B	Financial Accounting								
		An introduction to financial accounting concepts, financial reporting, and managerial accounting. The course will address how accounting measures, records, and reports economic activities for business entities and how decision makers analyze, interpret, and use accounting information. COURSE MAY NOT BE USED TOWARDS THE ECONOMICS MAJOR or MINOR AT HAVERFORD. Crosslisted: Economics, Independent College Programs								
		1280	001	1.0	Neal Grabell	M	7:30PM	10:00PM		0
ICPR	H271B	Comparative and Transnational Studies: From Kuala Lumpur to Kansas City								
		How do we make sense of a globalizing world and its workings? This course, which is the gateway to the proposed minor in Comparative & Transnational Studies is for students who are intrigued by that question. So we examine ideas, institutions, and processes in transnational perspective, looking at how important phenomena were shaped and re-shaped as they were passed around the globe and reinterpreted by various actors. We also consider various comparisons of phenomena across countries, cultures, and areas, taking note of how and when they show us similarities we had ignored, or differences we had missed. Enrollment Limit: 25								
		1134	001	1.0	Thomas J. Donahue	T	1:30PM	4:00PM		0
ICPR	H290B	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								
		2470	001	1.0	Regina K Velasco	T	1:30PM	4:00PM		0
ICPR	H298A	Impact Investing								
		Impact investing is investing to generate both a financial return and a positive social benefit. It supports firms seeking to address social, environmental and /or governance problems (ESG) in a sustainable way often within market activity. The focus of this course is to not only gain an understanding of the theory and practice of impact investing across its many components, but also to gain practical experience by assessing a particular set of potential impact investments, making formal presentations of findings to an investment committee leading to a recommendation for investment to a partnering foundation. Crosslisted: Economics, Independent College Programs, PJHR Prerequisite(s): ECON 104 or 105 or 106 Enrollment Limit: 16								
		1283	001	1.0	Shannon B. Mudd	F	1:00PM	2:00PM	STO102	1
		1283	001	1.0	Shannon B. Mudd	M W	1:00PM	2:30PM	STO102	1
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								
		1067	001	1.0	Thomas J. Donahue	T	1:30PM	4:00PM	STO104	7
ICPR	H319A	Human Rights in Philadelphia and Pennsylvania-In National and Global Context								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<p>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</p>										
	2478	001	1.0	Eric Hartman	F	11:00AM	1:30PM	GST102		6
ICPR	H480B	Independent Study								
	1647	001	1.0	Attributes: Natural Science						
										0
ITAL	H001A	Beginning Italian I								
<p>The course is for students with no previous knowledge of Italian. It aims at giving the students a complete foundation in the Italian language, with particular attention to oral and written communication. The course will be conducted in Italian and will involve the study of all the basic structures of the language—phonological, grammatical, syntactical—with practice in conversation, reading, composition. Readings are chosen from a wide range of texts, while use of the language is encouraged through role-play, debates, songs, and creative composition. Enrollment Limit: 15</p>										
	1357	001	1.0	Daria Bozzato	M T W Th F	8:30AM	9:30AM	STO301		10
	1358	002	1.0	Daria Bozzato	M T W Th F	9:30AM	10:30AM	STO301		1
ITAL	H002B	Beginning Italian II								
<p>This course is the continuation of ITAL001 and is intended for students who have started studying Italian the semester before. It aims at giving the students a complete foundation in the Italian language, with particular attention to oral and written communication. The course will be conducted in Italian and will involve the study of all the basic structures of the language—phonological, grammatical, syntactical—with practice in conversation, reading, composition. Readings are chosen from a wide range of texts, while use of the language is encouraged through role-play, debates, songs, and creative composition. Prerequisite: ITAL001 or placement.</p>										
	1349	001	1.0	Daria Bozzato	M T W Th F	8:30AM	9:30AM			0
	1350	002	1.0	Daria Bozzato	M T W Th F	9:30AM	10:30AM			0
JNSE	H001A	First-Year Japanese (Intensive)								
<p>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</p>										
	1367	001	1.5	Tetsuya Sato	M W	8:30AM	10:00AM	STO18		18
	1370	002	1.5	Yuka Usami Casey	M W	10:00AM	11:30AM	STO18		18
	1373	003	1.5	Yuka Usami Casey	M W	1:00PM	2:30PM	STO18		13
	1368	00A	.0	Kei Walsh	T Th	8:30AM	10:00AM	STO18		19
	1369	00B	.0	Minako Kobayashi	T Th	10:00AM	11:30AM	STO18		16
	1374	00C	.0	Minako Kobayashi	T Th	1:00PM	2:30PM	STO18		13
JNSE	H002B	First-Year Japanese (Intensive)								
<p>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</p>										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1381	001	1.5	TBA Department staff	M W	8:30AM	10:00AM		0
		1382	002	1.5	TBA Department staff	M W	10:00AM	11:30AM		0
		1383	003	1.5	Yuka Usami Casey	M W	1:00PM	2:30PM		0
		1384	00A	.0	TBA Department staff	T Th	8:30AM	10:00AM		0
		1385	00B	.0	Minako Kobayashi	T Th	10:00AM	11:30AM		0
		1386	00C	.0	Minako Kobayashi	T Th	1:00PM	2:30PM		0
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								
		1404	001	1.0	Kimiko Suzuki	M W	8:30AM	10:00AM	STO14	12
		1405	002	1.0	Kimiko Suzuki	M W	10:00AM	11:30AM	STO14	5
		1406	00A	.0	Yuka Usami Casey	T Th	10:30AM	11:30AM	STO14	13
		1407	00B	.0	Yuka Usami Casey	T Th	11:30AM	12:30PM	STO14	4
JNSE	H004B	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): JNSE 003 or equivalent or instructor consent								
		1387	001	1.0	Kimiko Suzuki	M W	8:30AM	9:30AM		0
		1388	002	1.0	Kimiko Suzuki	M W	9:30AM	10:30AM		0
		1389	00A	.0	Yuka Usami Casey	T Th	10:00AM	11:30AM		0
		1390	00B	.0	Yuka Usami Casey	T Th	11:30AM	1:00PM		0
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								
		1371	001	1.0	Tetsuya Sato	M W F	11:30AM	12:30PM	STO16	11
JNSE	H102B	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 101 or equivalent or instructor consent								
		1379	001	1.0	Kimiko Suzuki	M W F	11:30AM	12:30PM		0
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								
		1372	001	1.0	Kimiko Suzuki	T Th	11:30AM	1:00PM	GST102	2
JNSE	H201B	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								
		1380	001	1.0	TBA Department staff	T Th	11:30AM	1:00PM		0

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
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									
	1029	001	1.0	Bret Mulligan	Plus one additional hour TBD	M W F	9:30AM	10:30AM	HLL107	15	
	1619	002	1.0	Bret Mulligan	Plus one additional hour TBD	M W F	10:30AM	11:30AM	HLL107	18	
LATN	H002B	Elementary Latin									
		Completion of the introduction to the Latin language, with readings in prose and poetry.									
		Enrollment Limit: 18									
	1568	001	1.0	Bret Mulligan		M W F	10:30AM	11:30AM		0	
	1048	002	1.0	Bret Mulligan		M W F	9:30AM	10:30AM		0	
LATN	H102A	Intermediate Latin: Youth and Transformation									
		Our focus in this intermediate language course will be on reading and analyzing selections from two Latin texts, Catullus' Carmina (Poems) and the Life of Atticus by Cornelius Nepos. Through this exercise, we will review various aspects of Latin grammar and develop sound reading strategies as we continue our study of Latin together. We will also pay special attention to many cultural, literary, and historical issues that intersect with these two texts, their authors, and their Roman context.									
		Prerequisite(s): LATN 002 or instructor consent for students with strong HS prep									
	1030	001	1.0	TBA Department staff		M W F	10:30AM	11:30AM	HLL106	9	
LATN	H104B	Introduction to Latin Literature: Friends and Enemies of Rome									
		This is both an intermediate Latin course and an introduction to the study of Latin literature and culture. Readings will span a range of works in prose and poetry, including inscriptions and other material evidence for Roman culture. The focus of inquiry will be on understanding Roman identity—their hopes, fears, achievements, and follies—by studying how they described friendship and their friends, and those enemies who resisted the Roman order, from the founding of the city, through its near destruction by Hannibal, and its cannibalization during the Civil Wars. The course will conclude with a brief historical simulation in which you will debate the fate of Rome as a Roman senator.									
		Prerequisite(s): LATN 102 or equivalent, or instructor consent									
	1049	001	1.0	TBA Department staff		M W F	10:30AM	11:30AM		0	
LATN	H211A	Advanced Latin Literature: Comedy									
		In this course, we will read a selection of comedies by Plautus and Terence. These fast-paced stage plays range from urbane witty to raucously hilarious - and are much funnier in the original Latin we will be reading than they are in translation. In addition to their humor, however, these plays also give us access to parts of Roman life sometimes missing from the great works of Latin literature: they show us immigrants and the enslaved, sex workers and poor soldiers, young people falling in love, parents worrying about their children, siblings and friends negotiating difficult relationships. Plautus, moreover, is the earliest Roman author whose works survive intact; Terence is Latin's earliest African author, and one of the few enslaved Roman authors whose writings we can read today.									
		Prerequisite(s): Two semesters of 100-level Latin, or instructor consent									
	1888	001]	1.0	Matthew Cullen Farmer		T Th	10:00AM	11:30AM		0	
LING	H101B	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									

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
					(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)					
					<i>Attributes: C: Physical and Natural Processes Natural Science Quantitative</i>					
	2282	001	1.0		Brook Danielle Lillehaugen	T Th	10:00AM	11:30AM		0
LING	H113B				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)					
	2281	001	1.0		Amanda Payne	T Th	1:00PM	2:30PM		0
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. 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)					
					<i>Attributes: Natural Science C: Physical and Natural Processes Quantitative</i>					
	2284	001	1.0		Shizhe Huang	T Th	11:30AM	1:00PM	CHS101	21
LING	H114B				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					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
Lottery Preference(s): 1) Junior and Senior CS or LING majors 2) Junior and Senior CS or LING minors 3) Then Seniors, then Sophomores, then Freshmen Attributes: Humanities 2286 001 1.0 Jane Chandlee M W 1:00PM 2:30PM CHS101 9											
LING	H215A				The Structure of Colonial Valley Zapotec A detailed examination of the grammar of Colonial Valley Zapotec, an indigenous language of Oaxaca, Mexico. Focus on hands-on research, morphological analysis, and translation of archival documents. Prerequisite(s): LING 113; and one of the following: LING 101, 114, 115, or instructor consent Enrollment Limit: 15 2285 001 1.0 Brook Danielle Lillehaugen F 11:00AM 1:30PM LUT211 12						
LING	H228B				First Language Acquisition A seminar course on how humans acquire native language(s). The class surveys acquisition theories and the experimental methodologies that test them. Topics include a range of linguistic areas (phonology, morphology, syntax, semantics), and contexts (monolingual, multilingual, and atypical development). Crosslisted: Linguistics, Psychology Prerequisite(s): Any one of the following: LING 101, 113, 114, 115, or Swarthmore equivalent. Enrollment Limit: 18 Lottery Preference(s): 1. Linguistics majors 2. Linguistics minors 3. Psychology majors and minors. Attributes: Natural Science C: Physical and Natural Processes Quantitative 2284 001 1.0 Jane Chandlee M W 1:00PM 2:30PM 0						
LING	H282B				Structure of Chinese This course is designed to acquaint students with both the syntactic and semantic structures of Mandarin Chinese and the theoretical implications they pose to the study of natural language. Students will have an opportunity to further their understanding of linguistic theories and to develop skills in analyzing a non-Indo-European language systematically. Enrollment Limit: 16 Prerequisite(s): At least two of the following: LING 101, 113, 114, or consent of the instructor. Priority to seniors and juniors. (Knowledge of Chinese is NOT required.) 1408 001 1.0 Shizhe Huang T Th 11:30AM 1:00PM 0						
LING	H295B				Seminar in Syntax: Zapotec Syntax A course designed to both provide theoretical and empirical breadth in advanced topics not covered in the introductory syntax courses, as well as introduce students to new ideas and recent developments in the field. Topics vary from semester to semester. Prerequisite(s): LING H113 or LING S050; LING H215 Structure of Zapotec preferred 1570 001 1.0 Brook Danielle Lillehaugen Th 1:30PM 4:00PM 0						
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 2382 001 1.0 Jane Chandlee F 1:30PM 4:00PM GST103 3						
LING	H399A				Senior Thesis Seminar						

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					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.						
			1426	001	1.0	Amanda Payne	F	1:30PM	4:00PM	HLL201	5
			1427	002	1.0	Shizhe Huang	F	1:30PM	4:00PM	GST102	3
LING	H399B	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.									
			1412	001	1.0	Jane Chandlee	F	11:00AM	1:30PM		0
MATH	H103A	Introduction to Probability and Statistics									
		Basic concepts and methods of elementary probability and quantitative reasoning, with practical applications. Topics include: sample average and standard deviation, normal curves, regression, expected value and standard error, confidence intervals and hypothesis tests. Crosslisted: Mathematics, Statistics Prerequisite(s): Not open to students who have (a) placed into 121 or higher, (b) taken 118 or higher, (c) taken any other introductory statistics class at Haverford or Bryn Mawr, (d) received a score of 4 or 5 on the AP Statistics exam Enrollment Limit: 40 Lottery Preference(s): 10 seats are reserved for first-year students Attributes: B: Analysis of the Social World Social Science Praxis Program									
			2404	001	1.0	Timur Akhunov	M W	2:30PM	4:00PM	HLS108	15
MATH	H105A	Applied Modeling with Calculus									
		An introduction to aspects of calculus useful in applied work in the natural and social sciences, with a strong emphasis on developing mathematical modeling skills. Topics include differential and integral calculus of functions of one variable, multivariable optimization, and modeling with differential equations. Applications to biology, economics, and physics. This course is taught at the level of a beginning calculus course, and no prior calculus experience is assumed. Prerequisite(s): Not open to students placing into MATH 118 or higher or Math 105 cannot be taken by students who have AP credit for calculus or with previous calculus credit, except with instructor consent Enrollment Limit: 40 Attributes: Social Science									
			1504	001	1.0	Jeffrey Tecosky-Feldman	M W F	10:30AM	11:30AM	SHAAUD	54
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									
			1471	001	1.0	Elizabeth Townsend Milicevic	M W	10:00AM	11:30AM	HLS11	24
			1472	002	1.0	Elizabeth Townsend Milicevic	M W	11:30AM	1:00PM	HLS11	24
			1498	003	1.0	Victoria Rayskin	M W	1:00PM	2:30PM	HLS11	24
			1506	004	1.0	Victoria Rayskin	M W	2:30PM	4:00PM	HLS11	22
MATH	H118B	Calculus: Dynamics and Integration									
		A study of the evolution of systems defined by difference and differential equations. Methods of analysis come from calculus: the limit, the derivative, and the integral from numerical, graphical, and symbolic perspectives. Not open to students placing into Math 121 or higher, except with instructor permission.									

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
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: Peace, Justice and Human Rights A: Meaning, Interpretation (Texts) B: Analysis of the Social World Humanities</i>										
	2425	001	1.0	TBA Department staff		T Th	11:30AM	1:00PM		0
	2426	002	1.0	TBA Department staff		T Th	1:00PM	2:30PM		0
MATH	H121A	Multivariable Calculus								
An introduction to functions of several variables, vector geometry, partial derivatives, optimization, Taylor's Theorem, multiple integrals, line integrals, and Green's and Stokes' Theorems.										
Prerequisite(s): MATH 118 or equivalent placement, or instructor consent. Not open to students who have previously taken multivariable calculus at the college level, either at Haverford or elsewhere, except with instructor consent										
Enrollment Limit: 30										
	1473	001	1.0	Timur Akhunov		M W	10:15AM	11:30AM	ESTW309	15
	1474	002	1.0	Anthony Kling		M W	10:15AM	11:30AM	STO10	17
	1489	003	1.0	Timur Akhunov		M W	11:30AM	12:45PM	ESTW309	24
	1507	004	1.0	Anthony Kling		M W	12:15PM	1:30PM	HLL7	23
MATH	H121B	Multivariable Calculus								
An introduction to functions of several variables, vector geometry, partial derivatives, optimization, Taylor's Theorem, multiple integrals, line integrals, and Green's and Stokes' Theorems. Enrollment in one lab hour is required.										
Prerequisite(s): MATH 118 or equivalent placement, or instructor consent. Not open to students who have previously taken multivariable calculus at the college level, either at Haverford or elsewhere, except with instructor consent.										
Enrollment Limit: 30										
	1433	001	1.0	TBA Department staff		M W	10:30AM	11:30AM		0
	1434	002	1.0	TBA Department staff		M W	11:30AM	12:30PM		0
	1453	003	1.0	TBA Department staff		M W	12:30PM	1:30PM		0
MATH	H203A	Statistical Methods and their Applications								
An introduction to statistical methods used to analyze data in the natural and social sciences. It covers descriptive statistics, the binomial and normal distributions, expected value and variance, confidence intervals and hypothesis testing, comparison of two samples, regression, and analysis of variance. A required computer lab, using R, is taught alongside this course.										
Crosslisted: Mathematics, Statistics										
Prerequisite(s): MATH 118 or higher, placement into MATH 121 or higher, or instructor consent. Students who have taken another introductory statistics course at Haverford or Bryn Mawr may only enroll in STAT 203 with instructor consent										
Enrollment Limit: 20										
<i>Attributes: C: Physical and Natural Processes Natural Science Quantitative</i>										
	1477	001	1.0	Lynne M. Butler		M W	1:00PM	2:30PM	ESTW309	9
	1478	00A	.0	Lynne M. Butler		F	1:00PM	2:30PM	HLS204	9
MATH	H203B	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										
	1435	001	1.0	Weiwen Miao		M W	11:30AM	1:00PM		0
	1446	00A	.0	TBA Department staff		F	11:30AM	1:00PM		0

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
MATH	H204A	Differential Equations								
An introduction to the theory of ordinary differential equations (ODEs) including algebraic techniques for solving a single ODE or a linear system of ODEs, numerical techniques for generating approximate solutions, geometric techniques for displaying solutions to understand their behavior, analyzing nonlinear systems, and some key theorems (such as existence and uniqueness of solutions). The focus of this course will be on applications of the methods and solving real systems.										
Prerequisite(s): MATH 121 or MATH 215 (or 216) or consent of instructor.										
Enrollment Limit: 30										
Attributes: Visual Studies Humanities A: Creative Expression										
	1512	001	1.0	Robert S. Manning		T Th	10:00AM	11:30AM	HLS109	30
MATH	H215A	Linear Algebra								
An abstract introduction to linear algebra, focusing on proof techniques. Topics covered include: vector spaces, linear transformations and matrices, determinants, eigenvalue problems, quadratic forms, and the spectral theorem. One extra hour of weekly discussions.										
Prerequisite(s): MATH 121 or equivalent placement, or 118 with instructor consent, or CMSC 231										
Enrollment Limit: 25										
	1465	001	1.0	Mehdi Abdi Anbouhi		M W F	10:30AM	11:30AM	HLS109	21
	1466	002	1.0	Jeffrey Tecosky-Feldman		M W F	12:30PM	1:30PM	HLS108	30
	1479	00A	.0	Mehdi Abdi Anbouhi		Th	9:00AM	10:00AM	HLS11	18
	1480	00B	.0	Mehdi Abdi Anbouhi		Th	10:30AM	11:30AM	HLS11	14
	1481	00C	.0	Jeffrey Tecosky-Feldman		Th	1:00PM	2:00PM	HLS11	13
	1482	00D	.0	Jeffrey Tecosky-Feldman		Th	2:30PM	3:30PM	HLS11	6
MATH	H215B	Linear Algebra								
An abstract introduction to linear algebra, focusing on proof techniques. Topics covered include: vector spaces, linear transformations and matrices, determinants, eigenvalue problems, quadratic forms, and the spectral theorem. One extra hour of weekly discussions.										
Prerequisite(s): MATH 121 or equivalent placement, or 118 with instructor consent, or CMSC 231										
Enrollment Limit: 30										
	1436	001	1.0	TBA Department staff		T Th	1:00PM	2:30PM		0
	1437	002	1.0	TBA Department staff		T Th	2:30PM	4:00PM		0
MATH	H218A	Probability								
An introduction to probability theory. Topics include: sample spaces, combinatorics, conditional probability, independence, discrete and continuous random variables, functions of random variables, expected value and variance, the moment generating function, and some basic limit theorems.										
Prerequisite(s): MATH 216 or 121 or consent										
Attributes: Natural Science Quantitative C: Physical and Natural Processes										
	1476	001	1.0	Lynne M. Butler		M W F	10:30AM	11:30AM	STO16	22
MATH	H286A	Applied Multivariate Statistical Analysis								
An introduction to multivariate statistical analysis. The course includes methods for choosing, fitting, and evaluating multiple regression models and analysis of variance models. A required computer lab, using R, is taught alongside this course.										
Crosslisted: Mathematics, Statistics										
Prerequisite(s): MATH 215 and one of the following: ECON 204, MATH 203, PSYC 200, SOCL 215										
Enrollment Limit: 15										
Lottery Preference(s): Senior and Junior Statistics Minors										
Attributes: Natural Science										
	1499	001	1.0	Weiwen Miao		M W	11:30AM	1:00PM	HLS12	13

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
		1500	00A	.0	Weiwen Miao	Th	11:30AM	1:00PM	HLS12	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								
		1475	001	1.0	Joshua Sabloff	M W F	9:30AM	10:30AM	HLS108	25
		1487	002	1.0	Joshua Sabloff	M W F	11:30AM	12:30PM	HLS108	25
MATH	H318B	Analysis II								
		A continuation of Math 317. In Spring 2022, the course will begin by extending ideas of convergence from Analysis I to vector spaces containing functions, and then consider aspects of analysis that relate to partial differential equations (including the "delta function", Fourier transforms, and Sobolev spaces). Prerequisite: Math 317 or permission of instructor								
		Prerequisite(s): MATH 317								
		1438	001	1.0	Joshua Sabloff	M W	10:00AM	11:30AM		0
MATH	H333A	Algebra I								
		A rigorous treatment of fundamental algebraic structures. Topics include: introduction to groups, modular arithmetic, polynomials, rings, fields, Galois theory, vector spaces, and modules.								
		Prerequisite(s): MATH 215 and either 121 or 216, or instructor consent								
		Enrollment Limit: 20								
		1492	001	1.0	Tianyuan Xu	M W F	10:30AM	11:30AM	OBS	23
		1493	002	1.0	Tianyuan Xu	M W F	11:30AM	12:30PM	OBS	12
MATH	H334B	Algebra II								
		We begin by building on the foundations from Algebra I, studying the intersection of group theory and linear algebra via group actions. We then analyze representations of finite groups and their character tables, with a primary focus on the symmetric group. Prerequisite(s): MATH 333 or instructor consent								
		1439	001	1.0	TBA Department staff	M W F	11:30AM	12:30PM		0
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								
		1113	001	.0	Steven Lindell	M W	10:00AM	11:30AM	SHA410	1
		1112	00A	1.0	Steven Lindell	F	10:30AM	11:30AM	SHA410	1
MATH	H345B	Theory of Computation								
		Introduction to the mathematical foundations of computer science: finite state automata, formal languages and grammars, Turing machines, computability, unsolvability, and computational complexity. Attendance at the weekly discussion section is required.								
		Crosslisted: Computer Science, Mathematics								
		Prerequisite(s): (CMSC 106, 107, 151, or 206) and CMSC 231, and junior or senior standing, or instructor consent								
		Enrollment Limit: 24								
		Lottery Preference(s):								
		1) Senior CS majors								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		2403	010	.5	Victoria Rayskin					0
MATH	H400I	Senior Research								
		Work on Senior Thesis with Advisor.								
		<i>Attributes: Natural Science Neuroscience</i>								
		1440	001	.5	Robert S. Manning					0
		1441	002	.5	Weiwen Miao					0
		1442	003	.5	Joshua Sabloff					0
		1443	004	.5	Elizabeth Townsend Milicevic					0
		1444	005	.5	TBA Department staff					0
		1445	006	.5	Timur Akhunov					0
		1455	007	.5	David Lippel					0
		1456	008	.5	TBA Department staff					0
		2427	009	.5	TBA Department staff					0
		2428	010	.5	TBA Department staff					0
MATH	H460B	Teaching Assistant								
		<i>Attributes: B: Analysis of the Social World Social Science</i>								
		1458	001	1.0	TBA Department staff					0
MATH	H480A	Independent Study								
		Independent Study								
		<i>Attributes: Natural Science</i>								
		1497	001	1.0	TBA Department staff					0
		1503	002	1.0	TBA Department staff					0
MATH	H480B	Independent Study								
		<i>Attributes: Social Science</i>								
		1450	001	1.0	TBA Department staff					0
		1451	002	1.0	TBA Department staff					0
		1703	003	1.0	TBA Department staff					0
MATH	H480F	Independent Study								
		<i>Attributes: Social Science B: Analysis of the Social World</i>								
		1485	001	.5	TBA Department staff					0
		1491	002	.5	TBA Department staff					0
MATH	H480I	Independent Study								
		1457	001	.5	TBA Department staff					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.								
		1116	001	.5	Nathan Zullinger	W	7:00PM	9:15PM	ROB100	14
MUSC	H102I	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.								
		Prerequisite(s): Audition and consent of the instructor.								
		1197	001	.5	Nathan Zullinger	W	7:00PM	9:15PM		0

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
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.					
	1128	001	1.0	Leonardo Dugan	T Th	11:30AM	1:00PM	ROB100	12	
MUSC	H110B				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.					
	1210	001	1.0	Leonardo Dugan					0	
MUSC	H115B				Introduction to Improvisation and Jazz Harmony Intensive, hands-on introduction to the improvisatory practices and techniques of Black American Music/jazz, with a strong focus on both style and rhythm/groove. By the end of the semester, students will learn to play, analyze, and compose solos using blues/pentatonic scales, modes, and chord-based melodic structures. Pre-requisite(s): Prerequisite: the ability to play an instrument (voice included - scat-singers welcome!) Lottery Preference: Lottery with priority given to music majors and minors. Enrollment Limit: 25.00					
	2401	001	1.0	Leonardo Dugan	T Th	2:30PM	4:00PM		0	
MUSC	H140A				Musical Cultures of the World: an Ethnomusicological Journey This course provides an overview of the world's musical traditions, with selected case studies from each of ten regions: Oceania, South Asia, East Asia, Southeast Asia, the Middle East, North America, Europe, Africa, the Caribbean, and Latin America. It introduces ways to think and write about the huge diversity of musical genres from different parts of the world, together with their performers, audiences, and cultural contexts. Enrollment Limit: 25.00					
	2803	001	1.0	Edwin Porras	M W	1:00PM	2:30PM		0	
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					
	1118	001	1.0	Ingrid Arauco	T Th	8:30AM	10:00AM	ROB200	11	
MUSC	H204B				Principles of Tonal Harmony II Continuation of Music 203, covering chromatic harmony and focusing on the development of sonata forms from the Classical through the Romantic period. Composition of a sonata exposition is the final project. Three class hours plus laboratory period covering related aural and keyboard harmony skills. Required for the Music major or minor; should be taken the semester after Music 203. Prerequisite: Music 203.					
	1198	001	1.0	Ingrid Arauco	T Th	8:30AM	10:00AM		0	

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
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. 1119 001 .5 Heidi Carolyn Jacob					8
MUSC	H208I				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. 1202 001 .5 TBA Department staff					0
MUSC	H209F				Private Study: Voice All students enrolled in the private study program should be participating in a departmentally directed ensemble or activity (Chorale, Orchestra, etc.) as advised by their program supervisor. Students receive ten hour-long lessons with approved teachers for one-half credit, graded. All students in the private study program perform for a faculty jury at the end of the semester. Students assume the cost of their lessons, but may apply for private study subsidies at the beginning of each semester's study through the department. 1120 001 .5 Nathan Zullinger					15
MUSC	H209I				Private Study: Voice All students enrolled in the private study program should be participating in a departmentally directed ensemble or activity (Chorale, Orchestra, etc.) as advised by their program supervisor. Students receive ten hour-long lessons with approved teachers for one-half credit, graded. All students in the private study program perform for a faculty jury at the end of the semester. Students assume the cost of their lessons, but may apply for private study subsidies at the beginning of each semester's study through the department. 1203 001 .5 Nathan Zullinger					0
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. 1121 001 .5 Heidi Carolyn Jacob					9
MUSC	H210I				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. 1209 001 .5 TBA Department staff					0
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. 1117 001 .5 Nathan Zullinger	M Th	4:40PM	6:20PM	ROB100	12
MUSC	H214I				Chamber Singers					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					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.						
		1199	001	.5	Nathan Zullinger	M Th	4:40PM	6:20PM		0	
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.						
		1114	001	.5	Heidi Carolyn Jacob					8	
MUSC	H215I	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.						
		1200	001	.5	TBA Department staff					0	
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.						
		1115	001	.5	Heidi Carolyn Jacob	Th	7:00PM	9:30PM	ROB100	13	
MUSC	H216I	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.						
		1201	001	.5	TBA Department staff	Th	7:00PM	9:30PM		0	
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						
		1122	001	1.0	Richard Freedman	M W	10:00AM	11:30AM	ROB200	9	
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						

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	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						
		2804	001	1.0	Edwin Porras	T Th	1:00PM	2:30PM	ROB200	0	
MUSC	H250B	Words and Music									
		This course will be devoted to the amazing vocal music of the European Renaissance, exploring the ways in which literary and musical modes of interpretation repeatedly informed each other during this period. How do literary readings of texts differ from musical ones? How did Renaissance musicians bring their own habits as readers to musical and verbal texts they sang and played? Our primary texts will be the works themselves: French chansons, Italian madrigals, Latin motets, and solo songs of the fifteenth through early seventeenth centuries. We will study poetry by Petrarch, Tasso, Christine de Pizan, Ronsard as interpreted by composers like Guillaume Dufay, Josquin Desprez, Cipriano de Rore, Orlandus Lassus, Luca Marenzio, Claudio Monteverdi (and plenty of others, too). Our discussions will be both historical (exploring the values and artistic ideals at work in the European Renaissance) and critical (investigating the ways of knowing or relating words and music).									
		2323	001	1.0	Richard Freedman	M W	2:30PM	4:00PM		0	
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									
		2383	001	1.0	Richard Freedman	M W	2:30PM	4:00PM	ROB200	18	
		2502	00A	.0	Richard Freedman					18	
MUSC	H266A	Composition									
		Preparation of a portfolio of compositions for various instruments and ensembles. Weekly assignments designed to invite creative, individual responses to a variety of musical ideas; experimentation with harmony, form, notation, and text-setting. Performance of student works-in-progress and final reading/recording session with professional musicians. Recent classes have had their compositions read by Network for New Music, percussionist Phillip O'Banion, and the Amernet String Quartet. Prerequisite(s): MUSC 204 and instructor consent									
		2291	001	1.0	Ingrid Arauco	T Th	10:00AM	11:30AM	ROB200	6	
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									
		1123	001	1.0	Leonardo Dugan	Th	2:30PM	5:00PM	ROB200	2	
MUSC	H304B	Counterpoint									
		Exploration of contrapuntal techniques and forms, such as canon, two-part invention, and fugue, with an emphasis on the works of J.S. Bach and beyond. Featured this semester will be the study of counterpoint in contemporary styles. This is a studio course which will result in a portfolio of works for various instruments, ranging from harpsichord to percussion. We will be writing for Philadelphia's Network for New Music and other guest artists, who will visit our class to offer feedback, perform and record your work. Advising note: This course is particularly valuable taken prior to senior year if you intend to complete a thesis in composition. Prerequisite(s): MUSC 204									

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1207	001	1.0	Ingrid Arauco	T Th	10:00AM	11:30AM		0
MUSC	H320B	Choral Conducting								
		This course will offer an introduction to conducting choral ensembles. Students will learn to synthesize the many aspects of conducting, including physical communication, artistic leadership, and musical study. In addition to incorporating elements of music history and theory, this course will emphasize additional skills such as score study, group vocal technique, and performance practice in different musical eras.								
		Prerequisite(s): MUSC 204 and MUSC 229; MUSC 102 or MUSC 214, and any one of the following: MUSC 208, 209, 210								
		Enrollment Limit: 10								
		Lottery Preference(s): Seniors, Juniors, then Sophomores								
		<i>Attributes: C: Physical and Natural Processes Natural Science</i>								
		2590	001	1.0	Nathan Zullinger	M W	11:30AM	1:00PM	ROB200	0
MUSC	H480A	Independent Study								
		Prerequisite(s): Approval of department and consent of instructor								
		1124	001	1.0	Heidi Carolyn Jacob					2
		1125	002	1.0	Richard Freedman					0
		1126	003	1.0	Ingrid Arauco					1
		1127	004	1.0	Nathan Zullinger					0
		1215	005	1.0						0
MUSC	H480B	Independent Study								
		Prerequisite(s): Approval of department and consent of instructor.								
		1204	001	1.0	TBA Department staff					0
		1205	002	1.0	Richard Freedman					0
		1206	003	1.0	Nathan Zullinger					0
		1208	004	1.0	Ingrid Arauco					0
		1220	005	1.0	Leonardo Dugan					0
		2325	006	1.0	TBA Department staff					0
NEUR	H100A	Introduction to Neuroscience								
		Neuroscience is an interdisciplinary field that seeks to understand the structure and functions of nervous system. Topics include evolution and development of the nervous system, neuroimaging and anatomy, neurophysiological basis of learning and memory, cognitive-behavioral development, and sensation and perception.								
		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								
		1356	001	1.0	Patrese Robinson-Drummer	T Th	8:30AM	10:00AM	HLS109	35
		2648	002	1.0	Emily Black	M W	8:30AM	10:00AM	SHA410	28
NEUR	H100B	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.								
		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								
		1346	001	1.0	Patrese Robinson-Drummer	T Th	8:30AM	10:00AM		0
NEUR	H357A	Feminist Neuroscience								
		As societal conceptions of gender and sex change, so to do scientific approaches to neuroendocrinology (the study of hormones and the brain) and sex differences research. In this seminar, we will trace the history of this scientific field before placing it in conversation with feminist and queer theories. Students will utilize close reading, writing, and presentation techniques to consider sociological concepts and reframings of neuroscience.								
		Crosslisted: NEUR.								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
Pre-requisite(s): Psychology 217: Behavioral Neuroscience or BMC equivalent Lottery Preference: 1) Senior psychology majors and senior neuroscience majors, 2) Junior psychology majors and junior neuroscience majors, 3) Senior psychology minors and senior neuroscience minors, 4) Junior psychology minors and junior neuroscience minors, and 5) all other students by class (senior, junior, sophomore; no first-years) Enrollment Limit: 12.00 Attributes: Humanities A: Meaning, Interpretation (Texts)										
		2807	001	1.0	Megan Massa	M W	10:00AM	11:30AM		0
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: B: Analysis of the Social World Social Science										
		1458	001	1.0	Sarah-Jane Koulen	M W	10:00AM	11:30AM	GST101	25
PEAC	H101B	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: Social Science										
		1470	001	1.0	Sarah-Jane Koulen	M W	2:30PM	4:00PM		0
PEAC	H116B	Ethical Struggles in Catastrophic Times: Quakers' Responses to the Holocaust								
An examination of some of the remarkable--and highly controversial--activities in which Quakers engaged as they tried to provide assistance to Jews who were being persecuted by the Nazis. Crosslisted: Independent College Programs; Religion; Peace, Justice and Human Rights Enrollment Limit: 15 Attributes: Social Science										
		2599	001	1.0	David Harrington Watt	T Th	1:00PM	2:30PM		0
PEAC	H119A	Culture and Crisis in the Golden Age of Athens								
In this course, through the poetry, sculpture, history, architecture, painting, philosophy, and oratory produced by the inhabitants of fifth-century Athens, we will examine the daily workings of Athenian democracy, economy, love, art, science, education, and religion. As we conduct our inquiry into Athens' "Golden Age," we will seek to discover ourselves in these ancient voices, and to illuminate the contrasts inherent between Athens and modernity. Restless, wary, elegant, vulgar, pious, and brutal, the Athenians left a legacy that continues to define and influence human achievement (and travails) to this day. In the last third of the class, students will embark on a multi-week simulation to rebuild Athens in the aftermath of the Peloponnesian Wars. Crosslisted: Classical Studies, PJHR Attributes: B: Analysis of the Social World Social Science										
		2400	001	1.0	Matthew Cullen Farmer	M W	1:00PM	2:30PM	STO131	4
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										
		1460	001	1.0	Prea Persaud Khanna	M W	11:30AM	1:00PM	GST101	25
PEAC	H201B	Applied Ethics of Peace, Justice and Human Rights								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
					<p>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</p>					
		1471	001	1.0	Jill Stauffer	T Th	11:30AM	1:00PM		0
PEAC	H202A	Forgiveness, Mourning, and Mercy in Law and Politics								
		<p>This course examines the possibilities and limits of forgiveness, apology and mercy in politics, and the role mourning plays in recovery from violence. In our readings we will focus on specific historic and contemporary instances of forgiveness and apology, violence and recovery; but our overall approach to the topic will be philosophical: The course will propose a thought experiment wherein we subject our ideas and presuppositions about what justice is, what it can and cannot be, and what forgiveness is, and what it can and cannot do, to a critical reappraisal. Crosslisted: PJHR, Philosophy Prerequisite(s): PEAC 101 or 201, a Philosophy course, or instructor consent Enrollment Limit: 25</p>								
		2333	001	1.0	Jill Stauffer	T Th	1:00PM	2:30PM	LUT211	5
PEAC	H228A	Break Every Yoke: Incarceration, Abolition, and Social Justice								
		<p>Students in this course will be invited to explore the intersection of religion with issues of mass incarceration, prison abolition, and social justice in the United States. Students will read important works of abolitionist thought, will explore the religious origins of the modern penitentiary, and will produce original research that draws on the history of religious approaches to incarceration, abolition, and social justice to comment on contemporary debates over these same issues. Crosslisted: PEAC. Lottery Preference: Religion Majors, PJHR Concentrators Enrollment Limit: 20</p>								
		2486	001	1.0	Richard Kent Evans	T Th	11:30AM	1:00PM	HLL107	17
PEAC	H284B	Organizations, Missions, Constraints: Social Justice Work in Theory and Practice								
		<p>The course focuses on honing skills of analysis, research, and institutional literacy that are useful to any student seeking to work in a mission-driven organization, internationally or locally. Students conduct semester-long research project on an organization relevant to their interests. Crosslisted: Peace, Justice and Human Rights, Political Science Prerequisite(s): PEAC 101 or PEAC 201 or a POLS course or instructor consent Enrollment Limit: 25 Lottery Preference(s): PEAC concentrators first, POLS majors second, followed by juniors and seniors before sophomores and freshmen</p>								
		2338	001	1.0	Shannan Hayes	T Th	1:00PM	2:30PM		0
PEAC	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 components, but also to gain practical experience by assessing a particular set of potential impact investments, making formal presentations of findings to an investment committee leading to a recommendation for investment to a partnering foundation. Crosslisted: Economics, Independent College Programs, PJHR Prerequisite(s): ECON 104 or 105 or 106 Enrollment Limit: 16</p>								
		1284	001	1.0	Shannon B. Mudd	F	1:00PM	2:00PM	STO102	1
		1284	001	1.0	Shannon B. Mudd	M W	1:00PM	2:30PM	STO102	1
PEAC	H309A	Against Death: Opposing Capital Punishment in American Literature and Culture								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
<p>Advanced inquiry into creative and critical responses to the death penalty in the United States from the 1830s to the 1970s. Our aim is to explore the relationship between art and social protest, and to examine how capital punishment has manifested U.S. histories of race, class, gender, religion, and sexuality. Readings in primary historical materials, literary and cultural analysis, and critical theory. Pre-requisite(s): Freshman writing, plus one 200-level ENG course; or freshman writing plus PEAC101 or PEAC201. Crosslisted: ENGL and PEAC Enrollment Limit: 15 Lottery Preference(s): Class is open to 12 junior and senior students concentrating in Peace, Justice, and Human Rights OR majoring in English. 3 spaces reserved for undeclared sophomores.</p>										
		2401	001	1.0	Lindsay V. Reckson	F	11:00AM	1:30PM	WDS	3
PEAC	H316B	Women and the Armed Struggle in Latin America								
<p>An examination of socialist armed struggles in 1970s, women's rights and feminist movements in Latin America. A comparative study of literary texts, testimonials and documentary films addresses theoretical issues such as Marxism, global feminism, hegemony and feminisms produced in the periphery. This course is conducted in Spanish. Cross-listed: Spanish, Comparative Literature, Gen/Sex, and PJHR Prerequisite(s): One 200-level, preferred 300-level course, or instructor consent Enrollment Limit: 15 Lottery Preferences: Spanish majors, Gen/Sex and PJHR concentrators</p>										
		2406	001	1.0	Aurelia Gómez De Unamuno	T Th	11:30AM	1:00PM		0
PEAC	H319A	Human Rights in Philadelphia and Pennsylvania-In National and Global Context								
<p>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</p>										
		2504	001	1.0	Eric Hartman	F	11:00AM	1:30PM	GST102	3
PEAC	H324B	Ethics of Temporality: Law, Time, Indigeneity, International Justice								
<p>This seminar will pose questions of how law and time intersect, focusing on cases where changing our understanding of time might help law do better, or changing our idea of law might help us understand what is at stake in different stories about time. Prerequisite(s): 200-level PEAC, POLS, or ANTH class, or permission of instructor Enrollment Limit: 15 Lottery Preference(s): PJHR concentrators, then seniors, then juniors, then sophomores</p>										
		1472	001	1.0	Jill Stauffer	W	1:30PM	4:00PM		0
PEAC	H328B	The Fight Against Impunity: The Turn to International Criminal Prosecutions								
<p>This course traces the conceptual shift or 'turn' towards individual criminal prosecutions for grave violations of human rights and humanitarian principles, the related conceptual shifts (from responsibility to individual accountability or from human rights reporting to evidence collection) and the international, national and regional organizations that are part of this turn. This is an interdisciplinary course offering students an introduction to the field of international criminal justice. Through a series of weekly 'dossiers', with readings drawn from a wide range of sources including academic literature, NGO reports, blog posts, Twitter threads and case law, we will explore the emergence of international criminal justice as a distinct field of practice and seek to uncover the underlying assumptions and principles that inform the field. This course will offer an introduction to international criminal law as a legal framework. At the same time, we will work to situate this legal framework within broader, interdisciplinary conversations and current affairs: justice and social repair, humanitarianism, the role of non-state actors and civil society, international development, the influence of technology and social media, etc.</p>										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
<p>Crosslisted: Peace, Justice and Human Rights; Anthropology Prerequisite(s): 200 level course in PJHR, ANTH or POLS, or consent of instructor Enrollment Limit: 15 Lottery Preference(s): 1. PJHR students 2. Anthropology students Attributes: <i>B: Analysis of the Social World Social Science Latin American, Iberian, and Latinx Studies</i></p>										
	2473	001	1.0		Sarah-Jane Koulen	M	7:30PM	10:00PM		0
PEAC	H334B	Politics of Violence								
<p>This semester the seminar will focus on the causes and manifestations of structural and political violence in the Americas. Topics include the rise of white supremacy in the United States, and escalating political repression, gang violence and organized crime in Mexico and Central America. Cross-listed: Political Science/Peace, Justice and Human Rights Enrollment Limit: 15 Attributes: <i>Visual Studies Social Science B: Analysis of the Social World</i></p>										
	2435	001	1.0		Anita Julie Isaacs	T	1:30PM	4:00PM		0
PEAC	H395A	Capstone in Peace, Justice and Human Rights								
<p>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: <i>Visual Studies Humanities A: Creative Expression</i></p>										
	1516	001	1.0		Jill Stauffer	W	1:30PM	4:00PM	LUT211	8
PHIL	H104A	Global Wisdom								
<p>A critical exploration of classic texts from diverse philosophical traditions in a global context. This course seeks to cultivate a global perspective in philosophy and brings classical texts from diverse philosophical worlds into global dialogue. One aim is to help students to appreciate global patterns in rationality across traditions and to gain a critical understanding of common ground and significant differences in diverse wisdom traditions. Readings include Bhagavad-Gita, Dhamapada, Plato's Phaedo, and Descartes's Meditations. This course does not count toward the major or minor. Enrollment Limit: 25 (5 seats reserved for freshmen)</p>										
	1936	001	1.0		Ashok K Gangadean	T Th	2:30PM	4:00PM	GST101	26
PHIL	H107A	Happiness, Virtue, and the Good Life								
<p>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: <i>Classics Humanities A: Meaning, Interpretation (Texts) B: Analysis of the Social World</i></p>										
	1336	001	1.0		Joel Yurdin	T Th	10:00AM	11:30AM	GST101	39
PHIL	H108A	Human Nature and Philosophical Reason								
<p>The capacity to reason is often seen as one of the central components of what it means to be a human being. How we reason, to what end we reason, and what constitutes "good reasoning," however, has been the subject of debate throughout the history of philosophy. Through an engagement with prominent philosophers, both past and present, this course will examine how our understanding of reason has and continues to shape our worldviews. Enrollment Limit: 45</p>										
	1338	001	1.0		Justin I. Fugo	T Th	8:30AM	10:00AM	GST101	19
PHIL	H110B	Mind and World								
<p>An introduction to the history of our conception of ourselves as rational beings in the world through a close reading of central texts in the European tradition that address both the sorts of beings we are and the nature of the world as it is the object of our natural scientific knowledge.</p>										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Enrollment Limit: 45 Attributes: Gender and Sexuality Studies First Year Writing										
	2233	001	1.0	Danielle Macbeth		M W	2:30PM	4:00PM		0
PHIL	H117B	Representing Difference What is the self? The other? How have concepts of the self and the other been central to the history of philosophy? Through a survey of the history of Western philosophy, students in this course will think critically about difference. Attributes: Africana Studies First Year Writing								
	2223	001	1.0	Qrescent Mali Mason		T Th	10:00AM	11:30AM		0
PHIL	H202A	Forgiveness, Mourning, and Mercy in Law and Politics This course examines the possibilities and limits of forgiveness, apology and mercy in politics, and the role mourning plays in recovery from violence. In our readings we will focus on specific historic and contemporary instances of forgiveness and apology, violence and recovery; but our overall approach to the topic will be philosophical: The course will propose a thought experiment wherein we subject our ideas and presuppositions about what justice is, what it can and cannot be, and what forgiveness is, and what it can and cannot do, to a critical reappraisal. Crosslisted: PJHR, Philosophy Prerequisite(s): PEAC 101 or 201, a Philosophy course, or instructor consent Enrollment Limit: 25								
	2334	001	1.0	Jill Stauffer		T Th	1:00PM	2:30PM	LUT211	5
PHIL	H210A	Plato A close reading of Plato's Meno, Phaedo, Republic, Symposium, and Theaetetus, with a focus on issues in philosophical psychology and the theory of knowledge. Prerequisite(s): 100-level philosophy course or instructor permission. Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies Humanities								
	1937	001	1.0	Joel Yurdin		T Th	1:00PM	2:30PM	GST101	10
PHIL	H214B	Feminism An examination of feminist philosophy in the lived world through reading Living a Feminist Life, The Argonauts, Down Girl: The Logic of Misogyny, and Freedom is a Constant Struggle to answer, What does it mean to do feminist philosophy? Prerequisite(s): 100 level Philosophy course or instructor's approval Attributes: First Year Writing								
	2226	001	1.0	Qrescent Mali Mason		T Th	2:30PM	4:00PM		0
PHIL	H238A	Hume David Hume was one of the most influential thinkers of the modern world, radically influencing philosophy, science, politics, religion, economics, and the social sciences. This course surveys his major doctrines in A Treatise of Human Nature, Essays, and two Enquiries. Pre-requisite(s): One 100-level course in philosophy or permission of the instructor								
	2492	001	1.0	Charles Goldhaber		T Th	11:30AM	1:00PM	UN114	6
PHIL	H239A	Existentialism Can we find meaning in modern life? This course traces the development of existentialism from its religious beginnings in Pascal and Kierkegaard, through Dostoyevsky's masterpiece The Brothers Karamazov and Nietzsche's atheistic affirmation of life, and into the 20th century. Pre-requisite(s): 100-level philosophy course or permission of instructor Enrollment Limit: 25.00								
	2493	001	1.0	Charles Goldhaber		M	7:30PM	10:00PM	STO14	23
PHIL	H242A	Buddhist Philosophy in a Global Context An introduction to classical Indian Buddhist thought in a global and comparative context. The course begins with a meditative reading of the classical text-The Dhamapada-and proceeds to an in depth critical exploration of the teachings of Nagarjuna, the great dialectician who founded the Madhyamika School. Prerequisite(s): At least one course in Philosophy or Religion or instructor permission. This course does not count toward the major or minor. Enrollment Limit: 40								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1939	001	1.0	Ashok K Gangadean	T Th	11:30AM	1:00PM	GST101	40
PHIL	H246B	Skepticism								
		Can we know anything at all? Has your whole life been a dream? Philosophers have grappled with these questions for ages. This course studies the sources of and responses to philosophical skepticism. Pre-requisite(s): One 100-level course in philosophy or consent of instructor								
		2462	001	1.0	Charles Goldhaber	T Th	11:30AM	1:00PM		0
PHIL	H247A	Africana Philosophy								
		Africana philosophy has been defined as "as an area of philosophical research that addresses the problems faced and raised by the African diaspora." (Gordon 2008) Africana philosophy, then, is a modern form of philosophy that oftentimes engages themes and questions that are neglected by Western philosophy. This course will examine philosophical problems raised by African American, Afro-Caribbean, and African philosophy, while engaging major scholars and schools of Africana philosophy. Crosslisted: AFST. Pre-requisite(s): One 100-level course in philosophy or consent of instructor. Enrollment Limit: No Limit								
		2873	001	1.0	Justin I. Fugo	M W	2:30PM	4:00PM		0
PHIL	H248B	The Politics of Knowledge								
		Contemporary political discourse has become saturated with epistemic notions such as "alternative facts" and "post-truth." This course will explore the intersection of political philosophy and epistemology by examining these above concepts (and others) and the consequences each has on political life. What will become clear is that overcoming these epistemic challenges not only hinges on what we know and how we know, but on taking political responsibility for cultivating alternative ways of thinking and acting. Pre-requisite(s): a 100-level course in philosophy or consent of instructor Enrollment Limit: No Limit <i>Attributes: C: Physical and Natural Processes</i>								
		2588	001	1.0	Justin I. Fugo	M W	1:00PM	2:30PM		0
PHIL	H252B	Philosophy of Logic and Language								
		A comparative exploration of alternative paradigms of logic, language and meaning from a logical and philosophical point of view. Special attention is given to the classical Aristotelian grammar of thought and the modern grammars developed by Frege, Wittgenstein, Quine, Heidegger, Sommers, Derrida and others. Focus is on the quest for the fundamental logic of natural language. This course does not count toward the major or minor. Enrollment Limit: 35 <i>Attributes: First Year Writing</i>								
		2227	001	1.0	Ashok K Gangadean	T Th	2:30PM	4:00PM		0
PHIL	H261B	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? <i>Attributes: Gender and Sexuality Studies First Year Writing</i>								
		2232	001	1.0	Joel Yurdin	T Th	10:00AM	11:30AM		0
PHIL	H310B	Topics in Greek Philosophy: Memory, Imagination, and Madness								
		An investigation of the key concepts and claims of Aristotle's psychology, with special attention to the functions of memory. Prerequisite(s): 200 level Philosophy course or Instructor's Approval <i>Attributes: First Year Writing</i>								
		2228	001	1.0	Joel Yurdin	T Th	1:00PM	2:30PM		0
PHIL	H318A	Reclaiming Democracy and Revitalizing the Political								
		Despite being one of the most widely endorsed concepts in our world today, democracy is in crisis. This course will consider the possibility that current shortcomings in democratic practice are rooted in contemporary Western political philosophy's tendency to see democracy and liberalism as synonymous. While examining tensions between liberalism and democracy, the course will also explore how we might cultivate deeper democratic forms of life.								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Pre-requisite(s): One 200-level course in philosophy, or consent of instructor Enrollment Limit: No Limit										
	2875	001	1.0	Justin I. Fugo	T	7:30PM	10:00PM			0
PHIL	H332B	Topics in Twentieth Century Continental Philosophy In his "Theses on Feuerbach," Marx famously stated "philosophers have hitherto only interpreted the world in various ways; the point is to change it." What Marx makes clear is his belief that critical thought ought to always be directed toward praxis (practical action). This course will closely examine a series of mid-20th century Francophone thinkers who took this Marxist dictum seriously, dedicating their lives to radical social transformation. <i>Attributes: C: Physical and Natural Processes</i>								
	2589	001	1.0	Justin I. Fugo	T	7:30PM	10:00PM			0
PHIL	H342B	Zen Thought in a Global Context This advanced seminar focuses on the development of Zen (Japanese) Buddhism culminating in the work of Nishida and his influential Kyoto School of Zen Philosophy. The background in the Indian origins of Madhyamika dialectic introduced by Nagarjuna is traced through the Zen Master Dogen and into flourishing of the modern Kyoto School founded by Nishida. The seminar focuses in the texts by Dogen and on selected writings in the Kyoto School: Nishida, Nishitani and Abe. The seminar involves intensive discussion of the issues on global context of philosophy. Nishida's thought is developed in dialogue with thinkers such as Aristotle, Descartes, Kant, Hegel, Husserl, Sartre and Heidegger, Nagarjuna and others. This course does not count toward the PHIL major or minor. Prerequisite(s): An Intro Phil course (100 series) and either 241 (Hindu Thought) or 242 Buddhist Thought) or a course in Relg or EALC Thought or consent Enrollment Limit: 30 Lottery Preference: EALC Majors/Minors <i>Attributes: First Year Writing</i>								
	2230	001	1.0	Ashok K Gangadean	T Th	11:30AM	1:00PM			0
PHIL	H372A	Topics in Philosophy: Philosophy and Intersectionality This course will attempt to determine how and to what extent intersectionality may fit into the discipline of philosophy. Focusing on the ethical dimensions of the concept, we will determine the conceptual difficulties philosophy brings to bear on intersectionality. Prerequisite(s): 200 level Philosophy course or Instructor's Approval <i>Attributes: Natural Science Environmental Studies B: Analysis of the Social World C: Physical and Natural Processes</i>								
	1941	001	1.0	Qrescent Mali Mason	Th	2:30PM	4:00PM	STO102		7
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.								
	1345	001	1.0	Danielle Macbeth	F	1:30PM	4:00PM	GST101		9
PHIL	H399B	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.								
	1295	001	1.0	Danielle Macbeth	F	1:30PM	4:00PM			0
PHIL	H407F	Discussion Leaders								
	1346	001	.5	Joel Yurdin	T Th	10:00AM	11:30AM			0
PHIL	H408F	Discussion Leaders <i>Attributes: Social Science</i>								
	1505	001	.5	Justin I. Fugo	T Th	8:30AM	10:00AM			0
PHIL	H410I	Discussion Leaders								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		2238	001	.5	Danielle Macbeth	M W	2:30PM	4:00PM		0
PHIL	H417I	Discussion Leaders								
		2239	001	.5	Qrescent Mali Mason	T Th	10:00AM	11:30AM		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								
		1228	001	1.0	Walter F. Smith	M W F	11:30AM	12:30PM	STO10	47
		1232	00A	.0	Suzanne Amador Kane	M	1:30PM	4:00PM	HLS105	12
		1233	00B	.0	Suzanne Amador Kane	T	1:30PM	4:00PM	HLS105	21
		1234	00C	.0	Suzanne Amador Kane	W	1:30PM	4:00PM	HLS105	14
PHYS	H102B	Classical and Modern Physics II								
		The second of a two-semester comprehensive introduction to physics, with an emphasis on life science applications involving electricity and magnetism, waves, electronics, waves and optics. Three class hours and one laboratory period.								
		Prerequisite(s): PHYS H101 and MATH H105 or equivalent								
		Enrollment Limit: 72								
		1227	001	1.0	TBA Department staff	M W F	11:30AM	12:30PM		0
		1232	00A	.0	Andrea N. Lommen	M	1:30PM	4:00PM		0
		1233	00B	.0	Andrea N. Lommen	T	1:30PM	4:00PM		0
		1239	00C	.0	Andrea N. Lommen	W	1:30PM	4:00PM		0
PHYS	H104B	Topics in Intro Programming: Physics and Astronomy								
		Topics in Introductory Programming is designed to give a general introduction to programming as related to data analysis across many fields. Students will be introduced to standard introductory programming imperative and object oriented techniques as well as data structures necessary to create efficient and understandable algorithmic solutions to problems. This course satisfies the prerequisite for CMSC 107.								
		Antirequisite(s): Students who have taken a semester of college-level computer science (e.g.,CMSC105) or placed into CMSC107 are ineligible to take this course. It is intended for students with little or no background in computer programming. This course is equivalent to CMSC 104.								
		Enrollment by permission only.								
		Enrollment Limit: 24								
		<i>Attributes: B: Analysis of the Social World Social Science Africana Studies</i>								
		1246	001	.0	Andrea N. Lommen	M W	10:00AM	11:30AM		0
		1251	00A	1.0	Andrea N. Lommen	M	9:30AM	10:30AM		0
		1252	00B	1.0	Andrea N. Lommen	M	10:30AM	11:30AM		0
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								
		1229	001	1.0	Suzanne Amador Kane	M W F	11:30AM	12:30PM	HLS109	29
		1235	00A	.0	Suzanne Amador Kane	M	1:30PM	4:00PM	HLS105	11
		1236	00B	.0	Suzanne Amador Kane	T	1:30PM	4:00PM	HLS105	15
		1237	00C	.0	Suzanne Amador Kane	W	1:30PM	4:00PM	HLS105	3
PHYS	H105B	Fundamental Physics I								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
<p>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.</p> <p>Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently)</p> <p>Enrollment Limit: 72</p>										
	1540	001	1.0	Walter F. Smith	M W F	11:30AM	12:30PM			0
	1541	00A	.0	Andrea N. Lommen	M	1:30PM	4:00PM			0
	1542	00B	.0	Andrea N. Lommen	T	1:30PM	4:00PM			0
	1543	00C	.0	Andrea N. Lommen	W	1:30PM	4:00PM			0
PHYS	H106A	Fundamental Physics II								
<p>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.</p> <p>Prerequisite(s): MATH H118 and PHYS H105 or equivalent</p> <p>Enrollment Limit: 72</p> <p>Attributes: Health Studies B: Analysis of the Social World Social Science Peace, Justice and Human Rights</p>										
	1252	001	1.0	Deepika C. Khilnane	M W F	10:30AM	11:30AM	HLS108		18
	1594	00A	.0	Suzanne Amador Kane	M	1:30PM	4:00PM	HLS105		7
	1595	00B	.0	Suzanne Amador Kane	T	1:30PM	4:00PM	HLS105		7
	1596	00C	.0	Suzanne Amador Kane	W	1:30PM	4:00PM	HLS105		4
PHYS	H106B	Fundamental Physics II								
<p>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.</p> <p>Prerequisite(s): MATH H118 and PHYS H105 or equivalent</p> <p>Enrollment Limit: 72</p>										
	1228	001	1.0	Theodore A. Brzinski	M W F	11:30AM	12:30PM			0
	1234	00A	.0	Andrea N. Lommen	M	1:30PM	4:00PM			0
	1235	00B	.0	Andrea N. Lommen	T	1:30PM	4:00PM			0
	1238	00C	.0	Andrea N. Lommen	W	1:30PM	4:00PM			0
PHYS	H211F	Laboratory in Electronics, Waves and Optics								
<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 majors 2. Sophomores 3. Physics & astronomy minors 4. First-years 										
	1292	001	.5	Islam Khan	Th	1:30PM	4:00PM	HLS206		16
	1293	002	.5	Islam Khan	F	1:30PM	4:00PM	HLS206		9
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>										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Enrollment Limit: 30 Lottery Preference(s): 1. Physics, astrophysics or astronomy majors 2. Sophomores 3. Physics & astronomy minors 4. First-years										
	1230	001	1.0	Daniel Grin		M W F	11:30AM	12:30PM	STO131	30
PHYS	H214B	Introductory Quantum Mechanics								
Introduction to the principles governing systems at the atomic scale. Topics include the experimental basis of quantum mechanics, wave-particle duality, Schrodinger's equation and solutions in one dimension, time dependence of quantum states, angular momentum, and one-electron atoms. Recent developments, such as paradoxes calling attention to the remarkable behavior of quantum systems, or quantum computing, will be discussed. Multi-electron atoms and nuclei will be considered if time allows. We recommend taking Physics 301, a related laboratory half-course, concurrently. Prerequisite(s): PHYS H213 or PHYS B308; we strongly recommend taking MATH H215 (Linear Algebra) or the equivalent before PHYS 214 Enrollment Limit: 30										
	1229	001	1.0	TBA Department staff		M W F	11:30AM	12:30PM		0
PHYS	H301I	Quantum Physics Laboratory								
A full-semester weekly laboratory focusing on experiments of modern relevance with a focus on quantum mechanics. Topics may include: how lasers work and laser spectroscopy; spin resonance; nuclear and cosmic ray physics; electron diffraction; photoelectric effect; superconductivity; quantum eraser (a "which way" experiment); and others. This is one of two laboratories at the advanced level required for the regular physics major and fulfills the advanced laboratory requirement for the interdisciplinary physics major. Prerequisite(s): PHYS H211; Co-requisite: PHYS 214 Enrollment Limit: 18										
	1240	001	.5	Theodore A. Brzinski		Th	1:30PM	4:00PM		0
	1544	002	.5	Theodore A. Brzinski		F	1:30PM	4:00PM		0
PHYS	H302B	Advanced Quantum Mechanics								
A continuation of the study of quantum mechanics begun in 214. Topics include matrix mechanics and spin, many-particle systems, perturbation theory and scattering theory. A variety of physical systems will be treated as examples, such as simple atoms, neutrino oscillations, and solids. Prerequisite(s): PHYS 214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30 Attributes: Humanities A: Meaning, Interpretation (Texts)										
	1821	001	1.0	Walter F. Smith		T Th	10:00AM	11:30AM		0
PHYS	H304B	Computational Physics								
An introduction to the methods and problems of computational physics, including matrix methods, ordinary differential equations, integration, eigensystems, Monte Carlo techniques, Fourier analysis, and iterative methods. Course will include a substantial independent project. Crosslisted: Physics, Astronomy, Computer Science Prerequisite(s): PHYS 213 or BMC PHYS 306 or instructor consent Enrollment Limit: 18 Attributes: Health Studies B: Analysis of the Social World Humanities										
	1249	001	1.0	Daniel Grin		M W	10:00AM	11:30AM		0
PHYS	H308A	Mechanics of Discrete and Continuous Systems								
Classical mechanics of systems of particles, conservation laws, Lagrangian mechanics, motion in central potentials, and core elements of chaos/non-linear dynamics. Fluid mechanics, covering the assumptions of the fluid approximation, key conservation laws, laminar, creeping, turbulent flow, and special topics like convection, waves, vortices, rotating flows, instabilities, flight, and biological flows as time and interest permit. Prerequisite(s): Either PHYS H213 or PHYS B306										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Enrollment Limit: 30 Lottery Preference(s): 1. Physics, astrophysics & astronomy majors 2. Physics & astronomy minors										
	1807	001	1.0	Theodore A. Brzinski		M W F	9:30AM	10:30AM	OBS	30
PHYS	H320A	Topics in Biological Physics: Biomechanics and Sensory Ecology								
A survey of physical methods used to study problems in human, animal and plant biomechanics and sensory ecology. The class will be run seminar-style and will include student-led discussions of readings in a textbook and in the research literature. Assignments will include problem sets, laboratories and a final modeling or experimental project exploring a topic of the student's choice. Prerequisite(s): MATH H121 and at least two 200-level courses in either physics or biology Enrollment Limit: 15 Attributes: <i>First Year Writing</i>										
	1809	001	1.0	Suzanne Amador Kane		T Th	11:30AM	1:00PM	ESTW309	9
PHYS	H326A	Advanced Physics Laboratory								
Design, execution, and analysis of significant experiments, including experiments on fundamental techniques such as low-noise electronic measurements, optics, and computer interfacing, as well as more advanced experiments which change from year to year. These include studies of microfluidics, atomic spectroscopy, cosmic ray physics, superconductivity, sensor technologies, and chaotic dynamics. Prerequisite(s): PHYS H301, PHYS 214 and either PHYS H213 or PHYS B306 Enrollment Limit: 14 Lottery Preference(s): 1. Physics, astrophysics & astronomy majors 2. Physics & astronomy minors										
	1239	001	1.0	Walter F. Smith		M F	1:15PM	4:00PM	HLS106	5
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										
	1231	001	.5	Walter F. Smith		Th	7:30PM	8:30PM	HLS108	24
PHYS	H399I	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										
	1244	001	.5	Andrea N. Lommen		W	11:30AM	2:00PM		0
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										
	1222	001	1.0	Andrea N. Lommen						0
	1223	002	1.0	Karen L. Masters						0

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
PHYS	H404B	Research in Astrophysics									
		Intended for those students who choose to complete an independent research project in astrophysics under the supervision of a faculty member.									
		<i>Attributes: B: Analysis of the Social World Social Science</i>									
		1257	001	1.0	Andrea N. Lommen					0	
		1258	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									
		1226	001	.5	Andrea N. Lommen					0	
		1227	002	.5	Karen L. Masters					0	
PHYS	H404I	Research in Astrophysics									
		Intended for those students who choose to complete an independent research project in astrophysics under the supervision of a faculty member.									
		<i>Attributes: B: Analysis of the Social World Social Science</i>									
		1261	001	.5	Andrea N. Lommen					0	
		1262	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									
		1238	001	1.0	Theodore A. Brzinski					0	
PHYS	H411B	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									
		1231	001	1.0	Theodore A. Brzinski					0	
PHYS	H411F	Research in Soft Matter Physics									
		Experimental research studying the rigidity and failure of jammed, disordered solids, and the mechanical response of athermal and nonlinear materials.									
		Prerequisite(s): Instructor consent									
		1245	001	.5	Theodore A. Brzinski					0	
PHYS	H411I	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									
		1237	001	.5	Theodore A. Brzinski					0	
PHYS	H412A	Research in Theoretical and Computational Physics									
		Independent research on current problems in theoretical physics, with emphasis on particle physics, physical cosmology, and mathematical physics; extensive use is also made of computer-based methods. This course is graded universal P/F in which no numerical grade is assigned.									
		Prerequisite(s): Instructor consent									
		1240	001	1.0	Daniel Grin					0	
PHYS	H412B	Research in Theoretical and Computational Physics									

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					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					
					1230	001	1.0		Daniel Grin	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					
					Attributes: B: Analysis of the Social World Social Science Africana Studies					
					1246	001	.5		Daniel Grin	0
PHYS	H412I				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					
					1253	001	.5		Daniel Grin	0
PHYS	H413A				Research in Biological Physics					
					Experimental & computational research applying physics to problems in biomechanics, animal behavior & sensory ecology. This course is graded universal P/F in which no numerical grade is assigned.					
					Prerequisite(s): Instructor consent					
					Enrollment Limit: 6					
					1241	001	1.0		Suzanne Amador Kane	0
PHYS	H413B				Research in Biological Physics					
					Experimental & computational research applying physics to problems in biomechanics, animal behavior & sensory ecology. This course is graded universal P/F in which no numerical grade is assigned.					
					Prerequisite(s): Instructor consent					
					Enrollment Limit: 6					
					1241	001	1.0		Suzanne Amador Kane	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					
					Attributes: Health Studies B: Analysis of the Social World Social Science Peace, Justice and Human Rights					
					1251	001	.5		Suzanne Amador Kane	3
PHYS	H413I				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					
					Attributes: B: Analysis of the Social World Humanities Health Studies					
					1250	001	.5		Suzanne Amador Kane	0
PHYS	H415A				Research in Nanoscale Physics					
					Research on the morphology and electronic properties of nano-scale materials.					
					Prerequisite(s): Instructor consent. Advanced lab experience preferred					
					Enrollment Limit: 5					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
		1242	001	1.0	Walter F. Smith					0
PHYS	H415B	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								
		1242	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								
		1243	001	.5	Walter F. Smith					0
PHYS	H415I	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: B: Analysis of the Social World Social Science</i>								
		1245	001	.5	Walter F. Smith					0
PHYS	H459B	Teaching Laboratory Physics								
		Study of the principles and practices of laboratory instruction in physics through association with staff in the Physics 102 laboratory. The student will interact with students in the laboratory sessions, prepare and deliver a pre-laboratory lecture, critique the descriptive materials for at least one experiment, and develop a new experiment appropriate to the course. This development work will include both written materials and the design and construction of a working prototype. This experiment and the 102 laboratory program as a whole will be evaluated in a final paper. Prerequisite(s): Senior standing in Physics, Astrophysics or Astronomy and instructor consent. Enrollment Limit: 2								
		1243	001	1.0						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.								
		1244	001	1.0						0
PHYS	H460B	Assoc in Teach 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. <i>Attributes: B: Analysis of the Social World Africana Studies Social Science</i>								
		1247	001	1.0						0
PHYS	H480A	Independent Study								
		Intended for students who want to pursue some topic of study that is not currently offered in the curriculum. In order to enroll, a student must have a faculty sponsor. Prerequisite(s): Instructor consent Enrollment limit: 6 <i>Attributes: B: Analysis of the Social World Humanities Health Studies</i>								
		1250	001	1.0						0
		1635	002	1.0						0

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
PHYS	H480F	Independent Study								
		Attributes: Social Science			Peace, Justice and Human Rights					
		1608	001	.5						0
PHYS	H480I	Independent Study								
		1236	001	.5						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								
		1047	001	1.0	Zachary W. Oberfield	M W	10:00AM	11:30AM	HLL7	29
POLS	H131A	Introduction to Comparative Politics								
		An introduction to basic concepts and themes in comparative politics analyzed through case studies. Themes include political authority and governance structures; political culture and identity politics; political participation and representation; and political economy.								
		Enrollment Limit: 35								
		Lottery Preference(s): Sophomores, then juniors and seniors. 15 spaces reserved for first year students								
		1043	001	1.0	Anita Julie Isaacs	T Th	10:00AM	11:30AM	CHS101	35
POLS	H131B	Introduction to Comparative Politics								
		An introduction to basic concepts and themes in comparative politics analyzed through case studies. Themes include political authority and governance structures; political culture and identity politics; political participation and representation; and political economy.								
		Enrollment Limit: 40								
		Lottery Preference(s): First-year students and sophomores, then juniors and seniors								
		1129	001	1.0	TBA Department staff					0
POLS	H151B	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								
		1132	001	1.0	Barak Mendelsohn	T Th	11:30AM	1:00PM		0
POLS	H161B	Global Political Economy: Race, Labor, Power								
		An introduction to the study of the global political economy with a focus on racial and class inequalities. The course examines how the global economy is governed and how power asymmetries contribute to racialized forms of labor exploitation and social dislocation. Attention will be paid to how larger economic forces influence local politics and shape individual experiences. Key themes include: racial capitalism, international trade and finance, globalization, global inequality, neoliberalism, multinational corporations, sweatshops, global cities.								
		Enrollment Limit: 40								
		1117	001	1.0	Craig Borowiak	T Th	10:00AM	11:30AM		0
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								
		1462	001	1.0	Paulina Ochoa Espejo	M W	10:00AM	11:30AM	WDS	17
POLS	H205B	Borders, Immigration, and Citizenship								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld	
					<p>A survey of contemporary theories of citizenship, borders and immigration. We will ask who should be a member of a political community, and whether states have a right to exclude immigrants. The course will draw examples from current events. Prerequisite(s): One Intro Political Science course, or instructor consent Enrollment Limit: 25 Lottery Preference(s): Political Science majors Attributes: C: Physical and Natural Processes Natural Science</p>						
		1484	001	1.0	Paulina Ochoa Espejo	M	1:30PM	4:00PM		0	
POLS	H208B	Political Thought in the Global South: The Case of Latin America									
		<p>What impact did the conquest and colonization of the Americas have on modern political thought? How did European thinkers describe Indigenous peoples, and how did they deploy the figure of "the native" in their works? In this course, we will take a critical approach to canonical thinkers such Hobbes, Locke, and Rousseau by focusing on how they approached issues of colonialism and Indigeneity. Drawing on insights from Indigenous, Black, and postcolonial theory we will explore how prominent issues in modern political thought (including theories of freedom, the social contract, natural law, progress, and individual rights) look different from vantage points outside of Europe. We will have a particular emphasis on works from and about Latin America. The course is broken up into three major sections. First, we begin with a selection of works that provide a framework for thinking about colonialism, race, and modernity. We then turn to a selection of canonical works in modern political thought, each paired with a contemporary piece of analysis. Finally, we end with a series of broader thematic readings on capitalism, liberalism, sovereignty, and modernity. Enrollment Limit: 25 Lottery Preferences: 5 spaces reserved for political science, 5 spaces reserved for LAILS concentration Attributes: Social Science B: Analysis of the Social World</p>									
		1577	001	1.0	Paulina Ochoa Espejo	M W	10:00AM	11:30AM		0	
POLS	H216A	The Supreme Court									
		<p>Examines the Supreme Court's interpretation of the civil rights and civil liberties expressed in the U.S. Constitution and its impact on American society and politics. Prerequisite(s): One 100-level course in Political Science Enrollment Limit: 25 Lottery Preference(s): 10 spaces for political science majors Attributes: Biochemistry and Molecular Biology Natural Science C: Physical and Natural Processes</p>									
		2456	001	1.0	Hannah Mariah Solomon-Strauss	M	7:30PM	10:00PM	STO16	25	
POLS	H227A	Urban Politics									
		<p>Examines who wields power in American cities amidst broad social and economic change. Includes both historical and contemporary analysis of urban politics, with close attention to the influence of race, ethnicity, and class.</p>									
		2461	001	1.0	Stephen J. McGovern	M W	10:00AM	11:30AM	HLL201	11	
POLS	H244A	A Comparative Perspective on Nationalism, Ethnicity, and Politics									
		<p>It is argued that we are all "global citizens." However, this belief in our interconnectedness has brought increased attention to the elements of our identities that make us different, leading to an increase in populist, nationalist, and ethnically-centered sentiments around the world. This course examines the concepts of nationalism and ethnicity from across the globe. Using theoretical texts and case studies, students will learn the historical foundations and modern illustrations of these concepts. Lottery Preference: Political Science majors Enrollment Limit: 25.00</p>									
		2809	001	1.0	Sean David Harris	M W	11:30AM	1:00PM		2	
POLS	H252A	Comparative Politics of Identity									
		<p>This course concentrates on one question in particular: How do culture, identity, politics, and power interact in shaping who we are? We take up this question by assessing theories that capture the relationship between personal and public conceptions of familiar modern identities such as race, sex, religion, sexual orientation, ethnicity, and disability. Our analysis of identity will explore these concepts in relation to political representation, social movements, law, and public policymaking from across the globe.</p>									

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					Lottery Preference: Political Science majors Enrollment Limit: 25.00 2810 001 1.0 Sean David Harris M W 1:00PM 2:30PM 1					
POLS	H261B				Global Civil Society and Transnational Activism					
					An introduction to the concept of civil society and how social movements, NGOs and social networks organize across national borders. Attention will be paid both to theory and to particular case studies, including the global justice movement, international human rights advocacy networks, international development NGOs, and transnational environmental activism, among other possibilities. Enrollment Limit: 30 Attributes: C: Physical and Natural Processes Quantitative Natural Science 2432 001 1.0 Craig Borowiak T Th 2:30PM 4:00PM 0					
POLS	H262A				Grassroots Economies: Creating Livelihoods in an Age of Urban Inequality					
					The aim of the course will be to examine the political and economic constraints generated by poverty and racial and class segregation in contemporary urban environments and how grassroots economic initiatives rooted in mutual aid often fill the gaps and provide alternative ways to meet needs and generate supportive community. Examples of such initiatives range from guerrilla gardens and artist collectives to worker cooperatives and informal revolving loan funds. This course will be taught in Philadelphia as part of the Tri-Co Philly Program. Prerequisites: Priority in registration will be given to students participating in the Tri-Co Philly Program (https://www.haverford.edu/philly-program) and Political Science majors. 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 25 at 11:59 pm. This program includes registering for the program's core course, A Sociological Journey to Immigrant Communities in Philadelphia (SOCL B232) and either this course (POLS H262) or Monuments and Public Space: Studio Architecture (ARTT 006B). Those not participating in the Philly program do not need to complete the application and can simply pre-register for the class. Enrollment Limit: 15 Lottery Preference(s): Political Science majors 2459 001 1.0 Craig Borowiak T 12:30PM 3:00PM FRDCTR1 18					
POLS	H271B				Comparative and Transnational Studies: From Kuala Lumpur to Kansas City					
					How do we make sense of a globalizing world and its workings? This course, which is the gateway to the proposed minor in Comparative & Transnational Studies is for students who are intrigued by that question. So we examine ideas, institutions, and processes in transnational perspective, looking at how important phenomena were shaped and re-shaped as they were passed around the globe and reinterpreted by various actors. We also consider various comparisons of phenomena across countries, cultures, and areas, taking note of how and when they show us similarities we had ignored, or differences we had missed. Enrollment Limit: 25 1130 001 1.0 Thomas J. Donahue T 1:30PM 4:00PM 0					
POLS	H274B				Ends and Means: Moral Choices in Politics					
					Can politics be moral? Can the end justify the means? Examines how to make moral choices in politics, and the moral dilemmas it poses, by scrutinizing how great theories answered these questions, including Machiavelli, Thoreau, Martin Luther King, Jr., Malcolm X, Camus, Sartre, Dewey, Trotsky, Rosa Luxemburg, Reinhold Niebuhr, and Elizabeth Anscombe. A special focus on the ethics of war. Prerequisite(s): Must have at least one course in Political Science 1136 001 1.0 Thomas J. Donahue W 1:30PM 4:00PM 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: 15 Lottery Preference(s): Senior majors, junior majors, sophomores					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1044	001	1.0	Jack Commins Hart Hasler	T	7:30PM	10:00PM	STO14	14
POLS	H278B	The Earth: Ethics, Politics, and Economics								
		How should we deal with clashes among environmental values, economic growth, and what people want? Examines the clashing theories and interpretations of facts that underlie current environmental debates. Focus on climate change and inter-relations among ethical, political, and economic concerns. Enrollment Limit: 25 <i>Attributes: Natural Science C: Physical and Natural Processes C: Physical and Natural Processes Quantitative Natural Science Quantitative</i>								
		2433	001	1.0	Thomas J. Donahue	Th	1:30PM	4:00PM		0
POLS	H282B	Inequality and Public Policy								
		An exploration of the relationship between policy and economic outcomes—or "who gets what"—in the United States. We will examine the causes of rising inequality and its effects on American democracy, with a focus on wages, taxes, healthcare, education, and criminal justice. Crosslisted: Economics, Political Science Prerequisite(s): ECON 105 or instructor consent <i>Attributes: A: Creative Expression Visual Studies Humanities</i>								
		1520	001	1.0	Michael Levere	M W	10:00AM	11:30AM		0
POLS	H284B	Organizations, Missions, Constraints: Social Justice Work in Theory and Practice								
		The course focuses on honing skills of analysis, research, and institutional literacy that are useful to any student seeking to work in a mission-driven organization, internationally or locally. Students conduct semester-long research project on an organization relevant to their interests. Crosslisted: Peace, Justice and Human Rights, Political Science Prerequisite(s): PEAC 101 or PEAC 201 or a POLS course or instructor consent Enrollment Limit: 25 Lottery Preference(s): PEAC concentrators first, POLS majors second, followed by juniors and seniors before sophomores and freshmen <i>Attributes: Natural Science</i>								
		1643	001	1.0	Shannan Hayes	T Th	1:00PM	2:30PM		0
POLS	H301A	Development, Human Rights, and Transnational Injustices								
		What are the worldwide obstacles to peace and justice? How can we surmount them? This course examines theories of some of the leading obstacles to peace and justice worldwide, and of what global citizens can do about them. The three obstacles we consider are colonialism and its legacies, whether we live in a global racial order, and whether the global economic order harms the poor and does them a kind of violence. The two solutions we will consider are the project of economic and social development, and the practice of human rights. The course aims, first, to give students some of the knowledge they will need to address these problems and be effective global citizens. Second, to understand some of the major forces that shape the present world order. Third and finally, to hone the skills in analysis, theory-building, and arguing that are highly valued 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								
		1048	001	1.0	Thomas J. Donahue	T	1:30PM	4:00PM	STO104	7
POLS	H312A	Political Ideologies in a World of Identities								
		Millions have sacrificed their lives, or been killed, for political ideologies like liberalism, conservatism, socialism, populism, or liberationism; millions more have sacrificed or otherwise died for identities, like worker or capitalist, Muslim or Christian, African or European, female or male, trans- or cisgender. Why? What do identities and ideologies offer to people? What are the leading political ideologies? key concepts and doctrines?								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					What key norms govern attributing the leading identities to self and others? Do some ideologies favor certain identities, or vice versa? We develop tools for judging the merits of any ideology, or any interpretation of an identity. Pre-requisite(s): one course in political science or philosophy					
		2460	001	1.0	Thomas J. Donahue	W	1:30PM	4:00PM	STO104	12
POLS	H315A	Research in American Politics								
		Using theories drawn from a variety of subfields, this course helps students develop a deeper understanding of how public policy is made. It also introduces students to policy analysis: the art and science of providing problem-solving advice to policymakers. Prerequisite(s): Junior or senior standing or instructor consent Enrollment Limit: 15								
		1038	001	1.0	Zachary W. Oberfield	T	1:30PM	4:00PM	GST103	6
POLS	H318A	Contemporary Political Ideas amid Global Transformations								
		This course examines how contemporary political ideas and movements, like nations, global solutions, or solidarity are affected by the global transformations that are now underway in the wake of COVID-19. We will explore how these transformations are reshaping these ideas, in light of the particular interests of students in the course. Enrollment Limit: 15								
		1040	001	1.0	Paulina Ochoa Espejo	M	1:30PM	4:00PM	UN111	4
POLS	H320A	Democracy in America								
		This seminar explores some of the most pressing challenges to American democracy today, including the intensification of ideological and partisan polarization, increasing economic inequality, ongoing constraints faced by marginalized groups, and concerns about the diminishing quality of citizen participation in politics. Enrollment Limit: 15								
		1039	001	1.0	Stephen J. McGovern	M	1:30PM	4:00PM	GST103	5
POLS	H331A	Research and Writing in Comparative Politics								
		This seminar on research and writing in comparative politics seeks to foster advanced reading, analysis, writing and workshopping skills among advanced political science majors Prerequisite(s): 5 courses in political science at the introductory and intermediate levels Enrollment Limit: 15 Lottery Preference(s): Political Science Seniors, then Political Science Juniors								
		1046	001	1.0	Anita Julie Isaacs	W	1:30PM	4:00PM	VCAM102	1
POLS	H333A	International Security								
		This course offers an introduction to the study of international security. 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. The first section introduces key conceptual issues and review main theoretical approaches in the field. The second section addresses specific issues in international security such as war, military doctrines, alliances, crisis, deterrence, grand strategy, and proliferation. Enrollment Limit: 15 Attributes: Humanities A: Creative Expression Creative Writing								
		2457	001	1.0	Barak Mendelsohn	Th	1:30PM	4:00PM	STO301	8
POLS	H334B	Politics of Violence								
		This semester the seminar will focus on the causes and manifestations of structural and political violence in the Americas. Topics include the rise of white supremacy in the United States, and escalating political repression, gang violence and organized crime in Mexico and Central America. Cross-listed: Political Science/Peace, Justice and Human Rights Enrollment Limit: 15 Attributes: Natural Science C: Physical and Natural Processes Natural Science C: Physical and Natural Processes								
		2436	001	1.0	Anita Julie Isaacs	T	1:30PM	4:00PM		0
POLS	H339B	Transitional Justice: The Politics of Accountability								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld			
					Challenges of transitional justice--confronting human rights violations in the aftermath of violent conflict and repressive dictatorship. We will address questions raised in transitional justice studies, focusing on purpose, goals and implications, and assessing practical experiences with key transitional justice mechanisms, including truth commissions, trials and reparations.								
					Enrollment Limit: 15								
					Attributes: Natural Science C: Physical and Natural Processes Natural Science C: Physical and Natural Processes								
					2437	001	1.0	Anita Julie Isaacs	W	1:30PM	4:00PM	0	
POLS	H366A				Advanced Research in Global Governance								
					Research seminar designed for students interested in working on long research papers or preparing for senior theses related to the global governance subfield or similar fields. The course will cover research methodologies, writing strategies, and discussions of contemporary global governance scholarship, which will be used to anchor the course thematically and to model different approaches to research. Students' independent research will be complemented with regular and intensive collaborative workshopping of one another's work in class.								
					Prerequisite(s): Three courses in POLS AND junior or senior status, or instructor consent								
					Enrollment Limit: 15								
					Lottery Preference(s): Senior POLS majors, then junior POLS majors, then seniors, then juniors								
					1037	001	1.0	Craig Borowiak	W	1:30PM	4:00PM	HLL106	6
POLS	H400B				Senior Thesis								
					This course consists of tutorials and intensive research, culminating in a senior thesis.								
					Prerequisite(s): Limited to political science senior majors								
					1118	001	1.0	Zachary W. Oberfield					0
					1119	002	1.0	Anita Julie Isaacs					0
					1120	003	1.0	Stephen J. McGovern					0
					1121	004	1.0	Barak Mendelsohn					0
					1122	005	1.0	Paulina Ochoa Espejo					0
					1123	006	1.0	Craig Borowiak					0
POLS	H460A				Teaching Assistant								
					Teaching assistant.								
					Prerequisite(s): Instructor consent								
					1049	001	1.0	Zachary W. Oberfield					5
					1534	002	1.0	Paulina Ochoa Espejo					1
					1601	003	1.0	TBA Department staff					0
POLS	H460B				Teaching Assistant								
					Teaching assistant.								
					Prerequisite(s): Instructor consent								
					1126	001	1.0	TBA Department staff					0
					1131	002	1.0	TBA Department staff					0
					1133	003	1.0	TBA Department staff					0
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								
					1045	001	1.0						0
POLS	H480I				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								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
		1127	001	.5	TBA Department staff					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										
		1054	001	1.0	Marilyn Boltz	T Th	8:30AM	10:00AM	SHA410	35
		1055	002	1.0	Samantha Fortin	M W	10:00AM	11:30AM	CHS101	26
PSYC	H100B	Foundations of Psychology								
An introduction to the study of mind and behavior. Topics include biological, cognitive, personality, abnormal, and social psychology, as well as a general consideration of the empirical approach to the study of behavior. This course is a prerequisite for most other 200 and 300 level psychology courses. However, in most cases, this prerequisite may be met with an AP Psychology score of 4 or 5 or IB Psychology credit.										
Prerequisite(s): Not available to students with AP Psychology (score of 4 or 5) or IB Psychology credit, as noted on transcript.										
Enrollment Limit: 35										
Lottery Preference(s): Those closed out of course in previous semester. Then, priority as follows: freshmen, sophomores, juniors, seniors										
		1061	001	1.0	Jennifer L Lilgendahl	M W	11:30AM	1:00PM		0
		1063	002	1.0	TBA Department staff					0
		1634	003	1.0	TBA Department staff					0
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) sophomores, (3) seniors [non-psychology majors], (4) juniors [non-psychology majors], (5) first-year students										
		1058	001	1.0	Megan Nadzan	M W	11:30AM	1:00PM	TRLR-OBS	38
		2465	00A	.0	Megan Nadzan	T	1:00PM	2:30PM	STO4	38
		2466	00B	.0	Megan Nadzan	Th	11:30AM	1:00PM	STO4	0
PSYC	H200B	Research Methods and Statistics								
A general overview of the experimental method and its use in the psychological study of behavior, coupled with in-depth treatment of statistics as applied to psychology research. Lab exercises focus on designing experiments, collecting data, applying statistical methods (using a data analysis software package), and presenting data through written assignments. 90 minutes of lab per week required in addition to lecture.										
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) sophomores, (3) seniors [non-psychology majors], (4) juniors [non-psychology majors], (5) first-year students										
		1065	001	1.0	TBA Department staff					0

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1079	00A	.0	TBA Department staff					0
		1080	00B	.0	TBA Department staff					0
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.)										
		1071	001	1.0	Jennifer L Lilgendahl	T Th	11:30AM	1:00PM	HLS108	36
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): Priority to senior psychology or neuroscience majors, followed by junior psychology or neuroscience majors, followed by psychology or neuroscience minors										
Attributes: B: Analysis of the Social World Social Science										
		2559	001	1.0	Megan Massa	T Th	2:30PM	4:00PM	HLS108	24
PSYC	H220B	The Psychology of Time								
An examination of the various ways in which time is experienced and influences psychological behavior. Topics include: the perception of rhythm, tempo, and duration; temporal perspective; societal concepts of time; neural substrates of temporal behavior.										
Prerequisite(s): PSYC H100 or PSYC B105 or Psychology AP Score 4 or instructor consent										
Enrollment Limit: 35										
Lottery Preference(s): Psychology majors, psychology minors, NBS concentrators, and then by class										
		1081	001	1.0	Marilyn Boltz	M W	8:30AM	10:00AM		0
PSYC	H228B	First Language Acquisition								
A seminar course on how humans acquire native language(s). The class surveys acquisition theories and the experimental methodologies that test them. Topics include a range of linguistic areas (phonology, morphology, syntax, semantics), and contexts (monolingual, multilingual, and atypical development).										
Crosslisted: Linguistics, Psychology										
Prerequisite(s): Any one of the following: LING 101, 113, 114, 115, or Swarthmore equivalent.										
Enrollment Limit: 18										
Lottery Preference(s): 1. Linguistics majors 2. Linguistics minors 3. Psychology majors and minors.										
		2448	001	1.0	Jane Chandlee	M W	1:00PM	2:30PM		0
PSYC	H242A	Cultural Psychology								
An examination of cultural variation in psychological processes, covering development, personality, social behavior, neuroscience and genetics, and acculturation and multiculturalism.										
Prerequisite(s): PSYC 100 or PSYC B105 or Psychology AP Score of 4 or instructor consent										
Enrollment Limit: 35										
Lottery Preference(s): Majors, Minors, then by class (Seniors, Juniors, etc.)										
		2463	001	1.0	Shu-wen Wong	T Th	10:00AM	11:30AM	SHA410	36
PSYC	H260B	Cognitive Neuroscience								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					<p>An examination of the neural basis of higher mental functions such as object recognition, attention, memory, spatial functions, language, and decision-making. Major themes include mind/brain relationships, localization of function, and the plasticity of the brain. Prerequisite(s): PSYC 100 or PSYC B105 or Psychology AP Score of 4 or instructor consent Enrollment Limit: 35 Lottery Preference(s): priority to senior psychology or neuroscience majors, followed by junior psychology or neuroscience majors, followed by psychology or neuroscience minors. Attributes: A: <i>Meaning, Interpretation (Texts)</i> Humanities</p>						
			1347	001	1.0	Rebecca Compton	M W F	10:30AM	11:30AM	0	
PSYC	H303A	Psychology of Music	<p>What functions does music serve and how does it influence behavior? This course examines the evolutionary and biological bases of music as well as its effects upon cognition, social behavior, and our sense of self and identity. Prerequisite(s): PSYC 100, PSYC 200, and at least one additional 200-level course in psychology. Enrollment Limit: 12 Priority will be given to psychology majors at both Haverford and Bryn Mawr Colleges, followed by all psychology minors.</p>								
			1072	001	1.0	Marilyn Boltz	M W	10:00AM	11:30AM	SHA416	4
PSYC	H305I	Communicating Psychological Science	<p>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): 1. Junior Psychology majors/minors 2. Senior Psychology majors/minors Attributes: Humanities A: <i>Meaning, Interpretation (Texts)</i></p>								
			1348	001	.5	Benjamin Le	Th	1:00PM	2:30PM	0	
PSYC	H315F	Laboratory in Personality Psychology	<p>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.</p>								
			1074	001	.5	Jennifer L Lilgendahl	W	11:30AM	1:00PM	STO4	15
PSYC	H317I	Laboratory in Behavioral Neuroscience	<p>Prerequisite(s): Past or concurrent enrollment in PSYC 217 (Behavioral Neuro) is required. Completion of Stats/Methods (PSYC H200 or PSYC B205) is strongly recommended; however, concurrent enrollment with Stats/Methods may be permissible with consent Enrollment Limit: 15 Lottery preference(s): priority to senior psychology or neuroscience majors, followed by junior psychology or neuroscience majors, followed by psychology or neuroscience minors.</p>								
			1082	001	.5	Patrese Robinson-Drummer	M	1:00PM	2:30PM	0	
PSYC	H320I	Laboratory in the Psychology of Time									

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld	
					An overview of the different methodologies used in the psychological study of time. During laboratory sessions, students will explore some different temporal phenomena through the use of the empirical method and both the collection and analysis of statistical data. Prerequisite(s): PSYC H200 or PSYC B205 and past or concurrent enrollment in PSYC H213, B212, or H220, or instructor consent Enrollment Limit: 16 Lottery preference(s): Psychology majors, psychology minors, NBS concentrators, and then by class						
		1083	001	.5	Marilyn Boltz	T	10:00AM	11:30AM		0	
PSYC	H323F				Research Ethics in Psychology						
					Examines ethical issues in the conduct of psychological research. Issues will include those common to all sciences (e.g., scientific integrity, data manipulation, intellectual property) and those more specific to psychological research (e.g., protection of diverse human and nonhuman research participants). Prerequisite(s): Any 200-level course in psychology, or instructor consent Enrollment Limit: 15 Lottery Preference(s): Senior psychology majors, then junior psychology majors Attributes: Health Studies Social Science B: Analysis of the Social World Africana Studies						
		2507	001	.5	Rebecca Compton	M	11:30AM	1:00PM	SHA416	12	
PSYC	H335B				Narrative Identity						
					This course is an in-depth examination of the field of narrative identity, which takes as its guiding assumption that identity is constructed through finding meaning in past experiences and narrating our life stories. Course readings will draw from both quantitative and qualitative traditions and from several fields of psychology (developmental, personality, cultural, and clinical). Topics to be addressed include the development of narrative identity from childhood to old age, how cultural, historical, and social-structural forces shape narrative identity, and the role of narrative transformation in therapeutic processes, self-growth, and social change. Prerequisite(s): PSYC 100 or B105, PSYC 200 (or B205), and at least one of the following 200-level courses: PSYC 210, 215, 224, 242 or BMC PSYC 206 or 208; or instructor consent Enrollment Limit: 12 Lottery Preference(s): 1. Senior psychology majors/minors 2. Junior psychology majors/minors 3. Non-majors by year (seniors, juniors, etc.)						
		1084	001	1.0	Jennifer L Lilgendahl	T Th	11:30AM	1:00PM		0	
PSYC	H337B				Stress and Coping						
					An examination of theory and research on stress and coping processes, and their links with disease and mental health. Students will also learn and apply stress management techniques. Crosslisted: Psychology, Health Studies Prerequisite(s): PSYC H100 or PSYC B105 or Psychology AP Score 4, and one topical 200-level Psychology course (i.e., not PSYC H200, B205) Enrollment Limit: 12 Lottery Preferences: Majors, then minors, then by class						
		2444	001	1.0	Shu-wen Wong	T Th	10:00AM	11:30AM		0	
PSYC	H347A				Clinical Psychopharmacology						
					Psychopharmacology is the study of the action of drugs on the brain and the resulting changes in the physiology and behavior of an organism. During the semester we will use primary literature, classroom discussions and individual presentations to explore the history, rationale, pharmacology, mechanism of action and effects of current used and potential drugs for the treatment of diseases and disorders of the central nervous system. Pre-requisite(s): Psychology 217: Behavioral Neuroscience or BMC 218 Lottery Preference: 1) senior psychology majors and neuroscience majors, 2) senior psychology minors and neuroscience minors, 3) junior psychology majors and neuroscience majors, 4) junior psychology minors and neuroscience minors. Enrollment Limit: 15						
		2754	001	1.0	Samantha Fortin	W	1:30PM	4:00PM	SHA416	0	

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
PSYC	H352A				The Social Self					
<p>This course provides an advanced level overview of how interpersonal pressures impact identity and the self. We will review experimental evidence and theories investigating the self at the social, cultural, and individual levels. We will examine and integrate topics such as intrinsic and extrinsic motivation, social perception, interpersonal relationships, and the effects of self-regulation on health.</p> <p>Pre-requisite(s): Psychology H200 or BMC Psychology 205 AND any other 200-level psychology course Lottery Preference: 1) senior psychology majors, 2) junior psychology majors, 3) senior psychology minors, 4) junior psychology minors, 5) all other students by class. Enrollment Limit: 12.00</p>										
	2805	001	1.0		Megan Nadzan	T Th	10:00AM	11:30AM		0
PSYC	H357A				Feminist Neuroscience					
<p>As societal conceptions of gender and sex change, so to do scientific approaches to neuroendocrinology (the study of hormones and the brain) and sex differences research. In this seminar, we will trace the history of this scientific field before placing it in conversation with feminist and queer theories. Students will utilize close reading, writing, and presentation techniques to consider sociological concepts and reframings of neuroscience.</p> <p>Crosslisted: NEUR. Pre-requisite(s): Psychology 217: Behavioral Neuroscience or BMC equivalent Lottery Preference: 1) Senior psychology majors and senior neuroscience majors, 2) Junior psychology majors and junior neuroscience majors, 3) Senior psychology minors and senior neuroscience minors, 4) Junior psychology minors and junior neuroscience minors, and 5) all other students by class (senior, junior, sophomore; no first-years) Enrollment Limit: 12.00 Attributes: Social Science</p>										
	2806	001	1.0		Megan Massa	M W	10:00AM	11:30AM		0
PSYC	H360A				Laboratory in Cognitive Neuroscience					
<p>An examination of methodologies used to study the neural basis of higher mental functions. Students will utilize both cognitive and electrophysiological (EEG, ERP) recording methods, and will examine methodological issues in hemodynamic neuroimaging and the study of patient populations.</p> <p>Prerequisite(s): Stats/Methods (PSYC H200 or B205), or instructor consent. The PSYC H260 lecture is not required for this lab Enrollment Limit: 16 Lottery Preference(s): priority to senior psychology or neuroscience majors, followed by junior psychology or neuroscience majors, followed by psychology or neuroscience minors. Attributes: B: Analysis of the Social World Social Science Latin American, Iberian, and Latinx Studies</p>										
	2473	001	1.0		Rebecca Compton	T Th	1:00PM	2:30PM	HLS204	16
PSYC	H362A				Developmental Behavioral Neuroscience					
<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 Enrollment Limit: 12 Lottery Preference(s): 1. Senior Psyc majors 2. Senior Neuroscience minors 3. Junior Psyc majors 4. Junior Neuroscience minors</p>										
	2468	001	1.0		Patrese Robinson-Drummer	M	1:30PM	4:00PM	SHA416	12
PSYC	H380B				Psychology Practicum Seminar					
<p>Seminar to accompany 7-8 hour weekly practicum in psychology at a fieldwork site. Students learn about core issues in the "helping" fields and develop basic therapy skills. Application process takes place during Fall pre-registration period; instructor consent required.</p> <p>Prerequisite(s): PSYC 100 and one additional 200-level course in Psychology. Some sites may require additional Psychology coursework.</p>										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
					Enrollment Limit: 8 Lottery Preference(s): Juniors/Seniors majors, minors, sophomores, then others					
		1085	001	1.0	Shu-wen Wong	T	1:00PM	2:30PM		0
PSYC	H390A				Senior Thesis Open to senior psychology majors doing a one semester thesis in current semester. Enrollment Limit: 10					
		1056	001	1.0	TBA Department staff					4
PSYC	H390B				Senior Thesis Open to senior psychology majors doing a one semester thesis in current semester. Enrollment Limit: 10					
		1064	001	1.0	TBA Department staff					0
PSYC	H391A				Senior Research Tutorial in Cognition This senior research tutorial involves small group collaborative research on topics in memory and cognition, and especially those involving music cognition, the psychology of time, audiovisual interactions, and language behavior. Open to senior psychology majors. Enrollment Limit: 10					
		1057	001	1.0	Marilyn Boltz	F	1:30PM	4:00PM	SHA410	0
PSYC	H391B				Senior Research Tutorial in Cognition This senior research tutorial involves small group collaborative research on topics in memory and cognition, and especially those involving music cognition, the psychology of time, audiovisual interactions, and language behavior. Open to senior psychology majors. Enrollment Limit: 10					
		1066	001	1.0	Marilyn Boltz	F	1:30PM	4:00PM		0
PSYC	H392A				Senior Research Tutorial in Personality This senior research tutorial examines personality processes and identity development in emerging and middle adulthood, with an emphasis on the role of narrative meaning-making for understanding life trajectories and outcomes. Open to senior psychology majors. Enrollment Limit: 10					
		1066	001	1.0	Jennifer L Lilgendahl	F	1:30PM	4:00PM	SHA410	1
PSYC	H392B				Senior Research Tutorial in Personality This senior research tutorial examines personality processes and identity development in emerging and middle adulthood, with an emphasis on the role of narrative meaning-making for understanding life trajectories and outcomes. Open to senior psychology majors. Enrollment Limit: 10					
		1073	001	1.0	Jennifer L Lilgendahl	F	1:30PM	4:00PM		0
PSYC	H393A				Senior Research Tutorial in Social Psychology This senior thesis tutorial explores social psychological processes and close relationships using both experimental and survey methodologies, with an emphasis on transparency and utilizing best-practices for open science. Open to senior psychology majors. Enrollment Limit: 10					
		1102	001	1.0	Benjamin Le	F	1:30PM	4:00PM	SHA410	0
PSYC	H393B				Senior Research Tutorial in Social Psychology This senior thesis tutorial explores social psychological processes and close relationships using both experimental and survey methodologies, with an emphasis on transparency and utilizing best-practices for open science. Open to senior psychology majors. Enrollment Limit: 10					
		1069	001	1.0	Benjamin Le	F	1:30PM	4:00PM		0
PSYC	H394A				Senior Research Tutorial in Behavioral Neuroscience					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					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						
	1052	001	1.0	Patrese Robinson-Drummer	F	1:30PM	4:00PM	SHA410	3		
PSYC	H394B	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									
	1060	001	1.0	Patrese Robinson-Drummer	F	1:30PM	4:00PM		0		
PSYC	H395A	Senior Research Tutorial in Cognitive Neuroscience									
		This senior thesis tutorial involves designing and implementing projects using EEG methods to study aspects of human cognition. Specific topics vary, but often involve executive functions, attention, or emotion regulation. Open to senior psychology majors. Enrollment Limit: 10									
	1053	001	1.0	Rebecca Compton	F	1:30PM	4:00PM	SHA410	4		
PSYC	H395B	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									
	1062	001	1.0	Rebecca Compton	F	1:30PM	4:00PM		0		
PSYC	H398A	Senior Research Tutorial in Cultural Psychology									
		This senior thesis tutorial examines the influence of culture, ethnicity, and race on psychological processes. Topics on social behavior and support, emotion processes, and health and well-being are emphasized. Open to senior psychology majors. Enrollment Limit: 10									
	1069	001	1.0	Shu-wen Wong	F	1:30PM	4:00PM	SHA410	4		
PSYC	H398B	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									
	1072	001	1.0	Shu-wen Wong	F	1:30PM	4:00PM		0		
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									
	1634	001	1.0	TBA Department staff					0		
PSYC	H480B	Independent Study									
		This course involves independent research under the supervision of a faculty member and requires faculty invitation and approval. Enrollment Limit: 10 <i>Attributes: Natural Science C: Physical and Natural Processes</i>									
	1637	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									

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		1612	001	.5	TBA Department staff					0
		1617	002	.5	TBA Department staff					0
PSYC	H480I	Independent Study								
		This course involves independent research under the supervision of a faculty member and requires faculty invitation and approval.								
		Enrollment Limit: 10								
		<i>Attributes: Natural Science</i>								
		1639	001	.5	TBA Department staff					0
		1686	002	.5	TBA Department staff					0
		1709	003	.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								
		<i>Attributes: Social Science B: Analysis of the Social World</i>								
		2481	001	1.0	Richard Kent Evans	M W	11:30AM	1:00PM	HLL107	27
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								
		1277	001	1.0	Anne Marie McGuire	T Th	10:00AM	11:30AM	STO104	14
RELG	H116B	Ethical Struggles in Catastrophic Times: Quakers' Responses to the Holocaust								
		An examination of some of the remarkable--and highly controversial--activities in which Quakers engaged as they tried to provide assistance to Jews who were being persecuted by the Nazis.								
		Crosslisted: Independent College Programs; Religion; Peace, Justice and Human Rights								
		Enrollment Limit: 15								
		2598	001	1.0	David Harrington Watt	T Th	1:00PM	2:30PM		0
RELG	H117B	Religion, the Body, and the Senses								
		This course explores the multi sensuous nature of religious experience and expression. Religion is not just a practice or a set of texts; it is also an embodied, felt experience that activates sights, sounds, tastes, touch, and particular smells. These embodied senses are also gendered and raced, and we want to pay close attention to how religious traditions map particular bodies onto specific senses.								
		Pre-requisite(s): None								
		2461	001	1.0	Kenneth A. Koltun-Fromm	M W	11:30AM	1:00PM		0
RELG	H122B	Introduction to the New Testament								
		An introduction to the New Testament and early Christian literature. Special attention will be given to the Jewish origins of the Jesus movement, the development of traditions about Jesus in the earliest Christian communities, and the social contexts and functions of various texts. Readings will include non-canonical writings, in addition to the writings of the New Testament canon.								
		Enrollment Limit: 35								
		<i>Attributes: Social Science B: Analysis of the Social World Africana Studies</i>								
		2451	001	1.0	Anne Marie McGuire	T Th	10:00AM	11:30AM		0
RELG	H137A	Black Religion and Liberation Theology								
		An introduction to the theological & philosophical claims raised in Black Religion & Liberation Thought in 20th C America. In particular, the course will examine the multiple meanings of liberation within black religion, the place of religion in								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					African American struggles against racism, sexism and class exploitation and the role of religion in shaping the moral and political imaginations of African Americans. <i>Attributes: C: Physical and Natural Processes Natural Science</i>					
			2483	001	1.0 Terrance Wiley	T Th	8:30AM	10:00AM	HLL112	7
RELG	H150B	South Asian Religious Cultures								
		An introductory course covering the variegated expressions of Hinduism, Buddhism, Jainism, Islam, and Sikhism in South Asia. Enrollment Limit: 25 <i>Attributes: B: Analysis of the Social World Social Science Africana Studies</i>								
			2452	001	1.0 Pika Ghosh	T Th	1:00PM	2:30PM		0
RELG	H208A	Sacred Matters: Material Dimensions of Religious Experience in South Asia								
		An examination of the bodily, sensorial and emotional experience of things, substances, architecture, sculpture, landscape, textiles, and texts, the aesthetics of epic poetry, drama, song, dance in South Asian religious cultures. Topics may include how such practices inscribe religious experience, provide parameters for social organization, and offer religious critique. Prerequisite(s): One course in Religion or Visual Studies Enrollment Limit: 15								
			2484	001	1.0 Pika Ghosh	T Th	1:00PM	2:30PM	GST102	5
RELG	H209B	Classical Mythology								
		An introduction to the primary characters and stories of Greek and Roman mythology including cosmic creation, Olympian and other deities, and heroes both as they appear in Greek and Roman literature and art and as they are later represented in modern art, music, and film. Crosslisted: Classical Studies, Comparative Literature, Religion <i>Attributes: Environmental Studies Humanities A: Meaning, Interpretation (Texts)</i>								
			1818	001	1.0 Matthew Cullen Farmer	M W	2:30PM	4:00PM		0
RELG	H212B	Jerusalem: City, History and Representation								
		An examination of the history of Jerusalem as well as a study of Jerusalem as religious symbol and how the two interact over the centuries. Readings from ancient, medieval, modern and contemporary sources as well as material culture and art. Enrollment Limit: 25 Lottery Preference(s): Religion majors, minors, then MEIS concentrators <i>Attributes: C: Physical and Natural Processes Natural Science</i>								
			2453	001	1.0 Naomi Koltun-Fromm	T Th	2:30PM	4:00PM		0
RELG	H221B	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								
			2454	001	1.0 Anne Marie McGuire	M W	10:00AM	11:30AM		0
RELG	H222A	Gnosticism								
		The phenomenon of Gnosticism examined through close reading of primary sources, including the recently discovered texts of Nag Hammadi. Topics include the relation of Gnosticism to Greek, Jewish, and Christian thought; the variety of Gnostic schools and sects; gender imagery, mythology and other issues in the interpretation of Gnostic texts. Enrollment Limit: 25								
			1291	001	1.0 Anne Marie McGuire	M W	10:00AM	11:30AM	GST102	7
RELG	H228A	Break Every Yoke: Incarceration, Abolition, and Social Justice								
		Students in this course will be invited to explore the intersection of religion with issues of mass incarceration, prison abolition, and social justice in the United States. Students will read important works of abolitionist thought, will explore the religious origins of the modern penitentiary, and will produce original research that draws on the history of religious approaches to incarceration, abolition, and social justice to comment on contemporary debates over these same issues. Crosslisted: PEAC. Lottery Preference: Religion Majors, PJHR Concentrators Enrollment Limit: 20								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		2485	001	1.0	Richard Kent Evans	T Th	11:30AM	1:00PM	HLL107	3
RELG	H254B	RAP and Religion: Rhymes about God and the Good								
		We will explore the origins, existential, and ethical dimensions of Rhythm and Poetry (RAP) music. Giving attention to RAP songs written and produced by African American artists, including Tupac, Nas, Jay-Z, The Roots, Lauryn Hill, and Kanye West, we will analyze their work with an interest in understanding a) the conceptions of God and the good reflected in them, b) how these conceptions connect to and reflect African American social and cultural practices, and c) how the conceptions under consideration change over time.								
		Enrollment Limit: 25								
		Lottery Preference(s): Senior religion majors, then junior religion majors, then all others								
		Attributes: <i>Biochemistry and Molecular Biology</i> <i>Natural Science</i> <i>C: Physical and Natural Processes</i>								
		2456	001	1.0	Terrance Wiley	F	8:30AM	11:00AM		0
RELG	H257A	Yoga: Art, Text and Practice								
		This course investigates the range of meanings attributed to the term yoga over two thousand years and across multiple geographical and cultural communities. These include exploring relationship between texts, images, and the practice of yoga in Hindu, Buddhist, and Jain communities, as well as modern manifestations associated with nationalist developments of the nineteenth century and global cosmopolitanisms and contemporary politics as part of ongoing transformations.								
		Enrollment Limit: 15								
		Attributes: <i>Natural Science</i> <i>C: Physical and Natural Processes</i> <i>Quantitative</i>								
		2487	001	1.0	Pika Ghosh	W	1:30PM	4:00PM	HLL7	11
RELG	H264B	Religion and Violence								
		This course explores the academic ways we think about religion and violence. We will read scholars including Rene Girard, Judith Butler, Talal Asad, and Mark Jeurgensmeyer. We will examine moments of religious violence across time and space, with special focus on episodes in recent U.S. history, including the events at Jonestown in 1978, the MOVE Bombing, the attacks of September 11th, 2001, and the assault on the U.S. Capitol Building in 2021.								
		Enrollment Limit: 25								
		1547	001	1.0	Richard Kent Evans	T Th	11:30AM	1:00PM		0
RELG	H268A	Anarchism: Religion, Ethics, Political Obligation								
		Anarchism emerged in the nineteenth century as an important transnational sociopolitical philosophy and religious movement. Course participants will analyze anarchism as a political philosophy and as a social movement, from the nineteenth century labor movement to the ongoing global justice movement.								
		Enrollment Limit: 25								
		Lottery Preference(s): Religion Majors, Peace concentrators								
		2898	001	1.0	Terrance Wiley	F	8:30AM	11:00AM	UN111	0
RELG	H268B	Anarchism: Religion, Ethics, Political Obligation								
		Anarchism emerged in the nineteenth century as an important transnational sociopolitical philosophy and religious movement. Course participants will analyze anarchism as a political philosophy and as a social movement, from the nineteenth century labor movement to the ongoing global justice movement.								
		Enrollment Limit: 25								
		Lottery Preference(s): Religion Majors, Peace concentrators								
		2458	001	1.0	Terrance Wiley	T	7:30PM	10:00PM		0
RELG	H272B	American Religious History								
		This course will investigate the historically shifting roles of religion in American society and the increasing prevalence of religious diversity throughout the country. The class will consider the functions of religion within settler colonialism, slavery, and immigration, and explore how religion has shaped popular culture, the legal system, and American identity. The class will also examine the role of religion within changing notions of gender, sexuality, and race.								
		2455	001	1.0	Richard Kent Evans	M W	11:30AM	1:00PM		0
RELG	H299A	Theoretical Perspectives in the Study of Religion								
		An introduction to theories of the nature and function of religion from theological, philosophical, psychological, anthropological, and sociological perspectives. Readings may include: Schleiermacher, Marx, Nietzsche, Freud, Tylor, Durkheim, Weber, James, Otto, Benjamin, Eliade, Geertz, Foucault, Douglas, Smith, Berger, Haraway.								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Enrollment Limit: 25										
Lottery Preference(s): Senior majors/minors, then Junior majors/minors										
	1274	001	1.0		Kenneth A. Koltun- Fromm	M	1:30PM	4:00PM	GST101	13
RELG	H301B	Seminar in Religious Traditions in Cultural Context								
This seminar examines the foundation mythologies of a variety of religious traditions, particularly those narratives that revolve around the founding of sacred cities. We will explore the relationship between political founding (cities, nations) and religious origins narratives.										
Enrollment Limit: 15										
	2459	001	1.0		Anne Marie McGuire	W	1:30PM	4:00PM		0
RELG	H303B	Religion, Literature and Representation: Images of Krishna								
This course approaches the Hindu god Krishna through varied expressions in architecture, sculpture, paintings, textiles, landscape design, poetry, music, dance, and drama. We will ask how these practices were employed to visualize the divine, to nurture faith and passion, and to gain proximity to the transcendent deity. Class work will include field trips to local temples and museums.										
Enrollment Limit: 15										
	2460	001	1.0		Pika Ghosh	M	1:30PM	4:00PM		0
RELG	H305B	Seminar in Religion, Ethics, and Society: Good and Evil								
How good can one be in a globalized world? Has the nature of evil changed? This course is a theoretical and practical investigation into the limits of modern disaster and despair, heroism and hope. In this course we will explore traditional religious responses to evil, catastrophe, and suffering, the meaning of natural and man-made disasters. We will also examine attempts to create perfect societies and secular saints, meditate on the nature of goodness, and consider various religious practices intended to cultivate virtue and just societies. Special attention will be paid to religious reactions to colonialism, racism, and war.										
Enrollment Limit: 15										
	1353	001	1.0		Kenneth A. Koltun- Fromm	M	1:30PM	4:00PM		0
RELG	H343A	Seminar in Religions in Late Antiquity								
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.										
Prerequisites: one course in Religion or Classics.										
Enrollment Limit: 15										
	2489	001	1.0		Naomi Koltun-Fromm	Th	1:30PM	4:00PM	GST103	3
RELG	H398A	Senior Thesis Seminar Part 1								
A practical methodology course which prepares senior Religion majors to write their senior theses.										
Enrollment Limit: 25										
Lottery Preference(s): Open to Senior Religion majors only										
	1270	001	1.0		Pika Ghosh	F	11:00AM	1:30PM	GST101	2
RELG	H399B	Senior Seminar and Thesis								
Senior Thesis										
Enrollment Limit: 25										
Lottery Preference(s): Open only to Senior Religion Majors										
	1282	001	1.0		Richard Kent Evans	F	11:00AM	1:30PM		0
RELG	H460A	Teaching Assistant								
Teaching Assistant										
Enrollment Limit: 5										
	1563	001	1.0							0
RELG	H480A	Independent Study								
Independent Study										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
					Enrollment Limit: 5						
		1271	001	1.0						0	
		1272	002	1.0						0	
RELG	H480B	Independent Study									
		Independent Study									
		1285	001	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.									
		1526	001	1.5	Jane Robin Shaw	W	6:10PM	7:00PM	DAL300	0	
		1526	001	1.5	Jane Robin Shaw	M T W	2:30PM	3:30PM	STO18	0	
						Th F					
RUSS	H002B	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: Quantitative C: Physical and Natural Processes B: Analysis of the Social World Social Science</i>									
		1480	001	1.5						0	
RUSS	H249A	The Soviet System and Its Demise									
		The Soviet system was inspired by some of the loftiest ideals of humanity. The entire society was redesigned so as to pursue common goals, rather than conflicting private objectives. The economy was run for people, not profits. The Soviet system is no more, but the ideas on which it was founded will probably always be with us. What does the largest social and economic experiment in history teach us? The course is 1/3 political science and 2/3 economics.									
		Crosslisted: Economics, Russian									
		Prerequisite(s): ECON 104, 105, or 106, or two one-semester courses in political science or history, or instructor consent									
		1280	001	1.0	Vladimir Kontorovich	T Th	2:30PM	4:00PM	STO14	0	
RUSS	H356B	Topics in Modern European History: The Russian Novel									
		Tolstoy, War and Peace (the Westernized aristocracy), Dostoevsky, Crime and Punishment (the terrorist intelligentsia), Pasternak's Dr. Zhivago (the Russian Revolution), and Grossman's Life and Fate (Russia's World War II.)									
		<i>Attributes: Natural Science C: Physical and Natural Processes Natural Science C: Physical and Natural Processes</i>									
		2439	001	1.0	Linda Gerstein	Th	1:30PM	4:00PM		0	
SOCL	H104A	Sociology of Crime and Deviance									
		This course provides a substantial introduction to criminology, with consideration of the social characteristics of offenders and victims, crime rates, and various justifications of punishment. This course should be of interest to students who are interested in theoretical, practical and ethical questions concerning the concepts of good and evil as foundational aspects of societal institutions and behaviors shaped by institutional expectations.									
		Pre-requisite(s): None									
		Lottery Preference: 15 spaces reserved for first year students.									
		Enrollment Limit: 25.00									
		2681	001	1.0	Marla Kohlman	M W	2:30PM	4:00PM		17	
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.									
		Section 001 with Gould will highlight works by Marx and Weber (supplemented by a bit of Parsons, Hegel, etc.).									
		Section 002 with McKeever will highlight works by Marx, Weber, Polanyi, and Durkheim.									
		1130	001	1.0	Mark Gould	T Th	1:00PM	2:30PM	HLL112	19	
		1131	002	1.0	Elise Herrala	T Th	11:30AM	1:00PM	HLL201	15	

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld		
SOCL	H155B		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.									
			Section 001 with Gould will highlight works by Durkheim and Freud (supplemented by a bit of Parsons, Mead, etc.). Section 002 with McKeever will highlight works by Durkheim, Mead, and Schutz.									
			1096	001	1.0	Mark Gould	T Th	1:00PM	2:30PM		0	
			1097	002	1.0	Elise Herrala	T Th	11:30AM	1:00PM		0	
SOCL	H180A		Sociology of Family: Pop Culture, Law, and Public Policy									
			We all come from families, and the family is therefore thought to be a well-known social institution. But family is constituted not just by our individual experiences but also as a product of historical, social, and political conditions. This course will examine how these conditions have shaped family life as we currently experience it. We will look at the social construction of the family, the psychosocial interiors of families, and how governmental policy has consistently shaped our notions of family.. Additionally, we will discuss the increasing diversity of family structures, the institution of marriage, and the social construction of childhood and parenting. The underlying framework for consistent analysis will be the gendered nature of family politics.									
			Pre-requisite(s): None Enrollment Limit: 25.00 Lottery Preference(s): 15 spaces reserved for first year students. Attributes: Natural Science C: Physical and Natural Processes									
			2482	001	1.0	Marla Kohlman	M W	11:30AM	1:00PM	STO14	18	
SOCL	H215B		Quantitative Methods									
			An introduction to the use of statistics and quantitative data analysis in sociological research. Prerequisite(s): SOCL 155A or 155B, or instructor consent									
			1098	001	1.0	TBA Department staff	M W	1:00PM	2:30PM		0	
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 Attributes: B: Analysis of the Social World Social Science Peace, Justice and Human Rights									
			2474	001	1.0	Elise Herrala	T Th	1:00PM	2:30PM	HLL201	3	
SOCL	H221B		Sociology of Art									
			The aim of the course is to introduce the relationship between art, culture, and society. Prerequisite(s): SOCL 155A, or SOCL 155B, or permission of instructor Enrollment Limit: 20 Lottery Preference(s): Sociology majors and minors									
						1561	001	1.0	Elise Herrala	T Th	1:00PM	2:30PM
SOCL	H235B		Class, Race, and Education									
			An examination of the effects of class and race on educational and occupational outcomes, emphasizing the contemporary United States. Attributes: Humanities A: Meaning, Interpretation (Texts)									
			2450	001	1.0	Mark Gould	T Th	11:30AM	1:00PM		0	
SOCL	H277A		Political Sociology: Fascism: Germany and the USA									
This course examines the social organization of political power in the U.S., focusing on the State, the influence of economic power (corporations & the economic elite) on political decision making, and "democracy": to what degree are we a democratic nation, what is the state of democracy now, and what might the future hold? We will explore the foundations of												

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					the major theories of state and social power—class (Marx), elite (Weber), and pluralist (de Toqueville) as well as more contemporary theories.					
					<i>Attributes: Social Science B: Analysis of the Social World</i>					
SOCL	H450A				Senior Departmental Studies					
					Thesis work, two semesters required of majors in their senior year.					
SOCL	H450B				Senior Departmental Studies					
					Thesis work, two semesters required of majors in their senior year.					
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.					
SOCL	H460B				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.					
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					
SOCL	H480B				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					
					<i>Attributes: Humanities Gender and Sexuality Studies A: Meaning, Interpretation (Texts)</i>					
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					
					Section 001 is for "true beginners" with no prior experience speaking, or course experience taking, Spanish. Placement by the department is required. Initial enrollment by permission only and still may be subjected to lottery. Permission numbers can be pr					
SPAN	H002B				Elementary Spanish					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld	
<p>This course is the second part of the introduction to the Spanish language. We study grammar and vocabulary in order to learn about 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. 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.</p> <p>Prerequisite(s): SPAN 001 or instructor consent Enrollment Limit: 18</p>											
			1417	001	1.0	Catherine Schroeder	M W F	9:30AM	10:30AM	0	
			1418	002	1.0	Ariana Huberman	M W F	10:30AM	11:30AM	0	
			1422	003	1.0	Luis Rodriguez-Rincon	M W F	11:30AM	12:30PM	0	
SPAN	H100A	Basic Intermediate Spanish	<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</p> <p><i>Attributes: Neuroscience Social Science</i></p>								
			1442	001	1.0	Aurelia Gómez De Unamuno	M W	10:00AM	11:30AM	STO104	7
			1443	002	1.0	Aurelia Gómez De Unamuno	M W	11:30AM	1:00PM	STO104	13
SPAN	H101A	Intermediate Spanish	<p>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</p>								
			1444	001	1.0	Luis Rodriguez-Rincon	M W	11:30AM	1:00PM	STO102	2
			1445	002	1.0	Lina Maria Martinez Hernandez	T Th	10:00AM	11:30AM	HLL7	17
			1448	003	1.0	Lina Maria Martinez Hernandez	T Th	1:00PM	2:30PM	HLL7	18
SPAN	H101B	Intermediate Spanish	<p>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</p>								
			1419	001	1.0	Aurelia Gómez De Unamuno	M W	10:00AM	11:30AM	0	
			1420	002	1.0	Aurelia Gómez De Unamuno	M W	11:30AM	1:00PM	0	
SPAN	H102A	Advanced Intermediate Spanish	<p>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.</p>								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Prerequisite(s): SPAN 101, Placement score, or instructor consent.										
Enrollment Limit: 18										
	1437	001	1.0	Roberto Castillo Sandoval	M W	10:00AM	11:30AM	STO207		7
	1438	002	1.0	Roberto Castillo Sandoval	M W	11:30AM	1:00PM	STO207		18
SPAN	H102B	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										
	2309	001	1.0	TBA Department staff	M W	11:30AM	1:00PM			0
	1421	002	1.0	Lina Maria Martinez Hernandez	T Th	10:00AM	11:30AM			0
	1423	003	1.0	Ana López-Sánchez	M W	2:30PM	4:00PM			0
SPAN	H201B	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										
	2305	001	1.0	Ana López-Sánchez	M W	11:30AM	1:00PM			0
SPAN	H203B	Writing the Jewish Trajectories in Latin America								
The course proposes the study of Latin American Jewish literature focusing on narrative, essay, and poetry of the Twentieth and Twenty-First centuries. It pays close attention to themes, registers, and cultural contexts relevant to the Jewish experience in Latin America. What is Jewish about this literature? Where do these texts cross paths, or not, with other migratory and minority experiences? The texts studied question identity and Otherness, and explore constructions of memory while examining issues of gender, assimilation, transculturation, migration, and exile in relation to the Jewish Diaspora in the Americas. This course is conducted in Spanish.										
Crosslisted: Spanish, Comparative Literature										
Prerequisite(s): SPAN 102, placement, or instructor consent										
Enrollment Limit: 25										
	2306	001	1.0	Ariana Huberman	M W	1:00PM	2:30PM			0
SPAN	H206A	Digitally Narrating Second Language Identities								
An exploration of the students' experience in bicultural/bilingual home, or abroad, and of the subjectivities they develop through their use of a second/foreign language. Readings include biographical texts by bilingual authors, and articles on the role of language in the construction of the self. This course is conducted in Spanish. Prerequisite(s): Interning/studying/knowing 2+ languages, or instructor consent.										
Enrollment Limit: 15										
Attributes: Natural Science C: Physical and Natural Processes										
	2293	001	1.0	Ana López-Sánchez	M W	1:00PM	2:30PM	HLL6		12
SPAN	H210A	Spanish and Spanish American Film Studies								
Exploration of Latin American film. The course will discuss approximately one movie per week. The class will focus on the analysis of cinematic discourses as well as the films' cultural and historic background. The course will also provide advanced language training with particular emphasis in refining oral and writing skills. This course is conducted in Spanish.										
Crosslisted: Spanish, Comparative Literature.										

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
Prerequisite(s): SPAN 102, or placement, or instructor consent. Enrollment Limit: 20										
	1541	001	1.0	TBA	Department staff	T Th	11:30AM	1:00PM	STO207	17
SPAN	H214B	Writing the Nation: 19th-Century Literature in Latin America An examination of seminal literary texts written in Latin America in the nineteenth century. Novels, essays, travelogues, short stories, miscellaneous texts, and poetry will be analyzed and placed in the context of the process of nation-building that took place after Independence from Spain. A goal of the course will be to establish and define the nexus between the textual and ideological formations of 19th-century writings in Latin America and their counterparts in the 20th-century. The course fulfills the "pre-1898" requirement. This course is conducted in Spanish. Cross-listed: Spanish, Comparative Literature. Prerequisite(s): SPAN 102, placement, or instructor consent. Enrollment Limit: 25								
	2307	001	1.0	Roberto Castillo	Sandoval	M	7:30PM	10:00PM		0
SPAN	H230A	Medieval and Golden Age Spain: Literature, Culture, and Society This course examines culturally significant literary texts produced in the Iberian Peninsula in a period that witnessed both convivencia and ethnic violence among the three key religious cultures—Christian, Islamic, and Jewish -- as well as the colonization of the Americas. Among the topics to be examined: the flowering of Hebrew and Arabic poetry in both Islamic and Christian kingdoms; the reality and the myth of Reconquista ('Christian Reconquest') and the Castilian epic; the origins of drama, lyric poetry, and novels in Spanish; the exploration and colonization of the Americas; the representation of animals in literature and culture; as well as genders, love, and sexuality in the first modern global empire. The course fulfills the "pre-1898" requirement. This course is conducted in Spanish.								
	2296	001	1.0	Luis Rodriguez-Rincon		T Th	1:00PM	2:30PM	STO102	13
SPAN	H231B	Caribe Queer: Sexualities and Narratives from the Hispanic Caribbean The course will look at different narrative and artistic productions regarding alternative sexualities in the Hispanic Caribbean. We will take as a point of departure the Cuban revolution and move to the present. Crosslisted: Spanish, Comparative Literature Prerequisite(s): SPAN 102 Enrollment Limit: 25 Lottery Preference(s): Spanish majors and minors								
	2308	001	1.0	Lina Maria Martinez	Hernandez	T Th	2:30PM	4:00PM		0
SPAN	H240A	Latin American and Iberian Culture and Civilization An interdisciplinary exploration of Latin America and Spain. Topics will include imperial expansion, colonialism, independence, national and cultural identities, and revolution. This course is designed to serve as the introduction to the Concentration in Latin American and Iberian Studies. Course taught in English. Students who wish to obtain Spanish credit are expected to read Spanish language texts in the original and write all assignments in the language.								
	2298	001	1.0	Roberto Castillo	Sandoval	F	11:00AM	1:30PM	HLL201	26
SPAN	H308A	Blackness in Latin America This course offers a historical and cultural approach to blackness in Latin America. Understood as an epistemological discourse and as embodied practices, blackness has been at the center of Latin American identity since colonial times. Taught in Spanish. Prerequisite(s): 200 level Spanish course Enrollment Limit: 15								
	2479	001	1.0	Lina Maria Martinez	Hernandez	M W	2:30PM	4:00PM	UN114	9
SPAN	H316B	Women and the Armed Struggle in Latin America								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld	
					<p>An examination of socialist armed struggles in 1970s, women's rights and feminist movements in Latin America. A comparative study of literary texts, testimonials and documentary films addresses theoretical issues such as Marxism, global feminism, hegemony and feminisms produced in the periphery. This course is conducted in Spanish. Cross-listed: Spanish, Comparative Literature, Gen/Sex, and PJHR Prerequisite(s): One 200-level, preferred 300- level course, or instructor consent Enrollment Limit: 15 Lottery Preferences: Spanish majors, Gen/Sex and PJHR concentrators</p>						
	2304	001	1.0		Aurelia Gómez De Unamuno	T Th	11:30AM	1:00PM		0	
SPAN	H360A	Learning-Teaching a Foreign Language									
					<p>This course is designed for the advanced student of Spanish, who is interested in the processes involved in learning a foreign language, and/or contemplating teaching it. This course is conducted in Spanish. Crosslisted: Spanish, Education Prerequisite(s): One 200-level course, or instructor consent</p>						
	2326	001	1.0		Ana López-Sánchez	T Th	2:30PM	4:00PM	STO205	5	
SPAN	H490A	Senior Departmental Studies									
					<p>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: Social Science</p>						
	1447	001	1.0		Ariana Huberman					11	
SPAN	H490B	Senior Departmental Studies									
					<p>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.</p>						
	1424	001	1.0		TBA Department staff					0	
STAT	H103A	Introduction to Probability and Statistics									
					<p>Basic concepts and methods of elementary probability and quantitative reasoning, with practical applications. Topics include: sample average and standard deviation, normal curves, regression, expected value and standard error, confidence intervals and hypothesis tests. Crosslisted: Mathematics, Statistics Prerequisite(s): Not open to students who have (a) placed into 121 or higher, (b) taken 118 or higher, (c) taken any other introductory statistics class at Haverford or Bryn Mawr, (d) received a score of 4 or 5 on the AP Statistics exam Enrollment Limit: 40 Lottery Preference(s): 10 seats are reserved for first-year students Attributes: Africana Studies Praxis Program Education Social Science B: Analysis of the Social World</p>						

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
		2405	001	1.0	Timur Akhunov	M W	2:30PM	4:00PM	HLS108	22
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								
		1510	001	1.0	Lynne M. Butler	M W	1:00PM	2:30PM	ESTW309	11
		1511	00A	.0	Lynne M. Butler	F	1:00PM	2:30PM	HLS204	11
STAT	H203B	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								
		1462	001	1.0	Weiwen Miao	M W	11:30AM	1:00PM		0
		1463	00A	.0	TBA Department staff	F	11:30AM	1:00PM		0
STAT	H286A	Applied Multivariate Statistical Analysis								
		An introduction to multivariate statistical analysis. The course includes methods for choosing, fitting, and evaluating multiple regression models and analysis of variance models. A required computer lab, using R, is taught alongside this course.								
		Crosslisted: Mathematics, Statistics								
		Prerequisite(s): MATH 215 and one of the following: ECON 204, MATH 203, PSYC 200, SOCL 215								
		Enrollment Limit: 15								
		Lottery Preference(s): Senior and Junior Statistics Minors								
		Attributes: Humanities								
		1513	001	1.0	Weiwen Miao	M W	11:30AM	1:00PM	HLS12	2
		1514	00A	.0	Weiwen Miao	Th	11:30AM	1:00PM	HLS12	2
STAT	H396B	Advanced Topics: Probability and Statistics								
		Various topics in statistics will be covered.								
		Crosslisted: Mathematics, Statistics								
		Prerequisite(s): MATH 218 and one of the following: MATH 203, ECON 203/204, PSYC 200, SOCL 215 or instructor consent								
		Enrollment Limit: 15								
		2430	001	1.0	Weiwen Miao	T Th	11:30AM	1:00PM		0
VIST	H110A	Foundations in Film Production								
		The fundamentals of digital film production. Students will learn the grammar of key film genres and basic filmmaking craft, including cameras, lighting, sound techniques, and nonlinear editing, creating four short films in the genres of animation, experimental, documentary, and fiction.								
		Enrollment Limit: 8								
		Lottery Preference(s): First Years and Sophomores, then Visual Studies minors.								
		2327	001	1.0	John Hancock Muse	T Th	10:00AM	11:30AM	VCAM201	11
VIST	H115A	Now/Then: Art and Abolition 1966-2022								
		How have artists developed and sustained abolitionist practices over time? What critical and creative frameworks inform abolitionism as a way of life? In this introductory course, students learn about the significance of art in abolitionist								

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crđ	Instructor(s)	Days	Start	End	Room	Enrld
					movements from the founding of the Black Panther Party in 1966 to the watershed reversal of Roe v. Wade in 2022. The course highlights key artists and thinkers, and offers creative workshops for collectively re-imagining relationships, communities, and our world. Enrollment Limit: 25.00					
		2893	001	1.0	Raegan Truax	W	1:30PM	4:00PM	VCAM102	0
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 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: Humanities A: Creative Expression Visual Studies					
		1521	001	1.0	Erin Schoneveld	M W	2:30PM	4:00PM	VCAM201	8
VIST	H203B				Ukiyo-e: The Art of Japanese Prints This course explores the evolution of Japanese woodblock prints, artists, collectors, and exhibition practices from the 17th century through the present day. Crosslisted: East Asian Languages & Cultures, Visual Studies Enrollment Limit: 35					
		2332	001	1.0	Erin Schoneveld	M W	10:00AM	11:30AM		0
VIST	H209B				Film on Photography: Theory and Practice An introduction to media production. Students will study the relationship between film and photography by viewing, reading about, and making films that feature photographs as either evidence, icons, memento mori, or as the atom of cinematic form, that is to say, the single film frame, stilled. Crosslisted: Independent College Programs, Film Studies Limited Enrollment 15					
		2334	001	1.0	John Hancock Muse	M W	10:00AM	11:30AM		0
VIST	H215A				Realism, Race, and Photography This course examines American literary realism and turn-of-the-century photography as complementary and sometimes competing practices, with a focus on their complex role in the imaging and imagining of racial identity. Fulfills AFST concentration requirement. Crosslisted: English, Visual Studies Enrollment Limit: 25 Priority to students majoring in English or pursuing Africana studies concentration.					
		2388	001	1.0	Lindsay V. Reckson	M W	1:00PM	2:30PM	VCAM201	4
VIST	H216A				Black Speculative Futures The course will explore how black artists, theorists, and activists imagine different futures to critique power asymmetries and create radical transformation. We will investigate how the speculative works differently across genres and we will craft our own embodied speculative art. Enrollment Limit: 25 Lottery Preference(s): Visual Studies minors and Africana Studies concentrators					
		2328	001	1.0	Christina Knight	T	1:30PM	4:00PM	VCAM201	4
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					

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
					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 Attributes: Scientific Computing Natural Science Quantitative C: Physical and Natural Processes					
		2788	001	1.0	Matthew O'Hare	T Th	11:30AM	1:00PM	VCAM201	0
VIST	H253B				The Theory and Practice of Conceptual Art In this course, the specific mid-20th C movement called Conceptual Art will be explored, as will its progenitors and its progeny. Students will study the founding manifestos, the canonical works and their critical appraisals, as well as develop tightly structured studio practica to embody the former research. The course invites artists, writers, activists, & cultural thinkers, those who want to know what it is to make things, spaces, situations, communities, allies, & trouble--without necessarily knowing how to draw, paint, sculpt, photograph, videotape, or film.					
		2333	001	1.0	John Hancock Muse	F	1:30PM	4:00PM		0
VIST	H258A				American Queen: Drag in Contemporary Art and Performance An interdisciplinary visual studies examination of queer subcultural performance and its influence on contemporary American culture. Readings include live performance, visual art and film as well as historical and theoretical secondary sources. Prerequisite(s): an intro course in Gen/Sex Enrollment Limit: 25 Lottery Preference(s): Gen/Sex Concentrators					
		2329	001	1.0	Christina Knight	M	1:30PM	4:00PM	VCAM102	9
VIST	H267B				Beauty Problems: Rhetoric, Aesthetics, Philosophy This course will examine a series of problems that beauty and other sensuous pleasures make for philosophy, film, and contemporary art. Works will include those of Plato, Immanuel Kant, Friedrich Nietzsche, Tanizaki Jun'ichiro, Isaac Julien, Elaine Scarry, Rosemarie Garland-Thomson, Fred Moten and others. Attributes: B: Analysis of the Social World Social Science					
		2400	001	1.0	John Hancock Muse	T Th	10:00AM	11:30AM		0
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 Attributes: A: Creative Expression Visual Studies					
		2792	001	1.0	Zeynep Sertbulut	M W	1:00PM	2:30PM		0
VIST	H315B				Black Performance Theory An interdisciplinary visual studies examination of how black performance reflects and shapes subject formation in America as well as the diaspora. Readings include live and recorded performances as well as historical and theoretical secondary sources. Prerequisite(s): 100 or 200-level course in either Africana Studies or Gender and Sexuality Studies or permission from the instructor. Enrollment Limit: 15 Lottery Preference(s): Africana Studies and Gen/Sex concentrators, then Seniors, then Juniors					
		2336	001	1.0	Christina Knight	M	1:30PM	4:00PM		0
VIST	H399A				Capstone for Visual Studies Minors					

Haverford College Fall 2022 Course Guide

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<p>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 Attributes: A: Creative Expression Visual Studies Humanities</p>										
	1520	001	1.0	John Hancock Muse		F	1:30PM	4:00PM	VCAM201	9
WRPR	H101A	Finding a Voice: Identity, Environment, and Intellectual Inquiry								
<p>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</p>										
	1545	001	1.0	Nimisha Ladva		M W	11:30AM	1:00PM	HLL112	10
	1546	002	1.0	Nimisha Ladva		M W	1:00PM	2:30PM	HLL112	9
WRPR	H102A	The Internet & Participatory Culture								
<p>This semester, we will read and write, critically and purposefully, on what is considered the new public sphere: the internet. We will do this by investigating three major areas of internet culture: Cancel or Call-Out Culture, Meme Culture and the Culture of Web Activism (sometimes referred to as Slacktivism). Pre-requisite(s): Placement by Director of College Writing. Lottery Preference: Only open to first year students as placed by the Director of College Writing. Enrollment Limit: 10 Attributes: Social Science</p>										
	1602	001	1.0	Marjorie Ana Hartman		T Th	10:00AM	11:30AM	STO207	10
	1603	002	1.0	Marjorie Ana Hartman		T Th	1:00PM	2:30PM	STO207	10
WRPR	H103B	You Are What You Eat: Food Studies and Identity								
<p>This course is designed to introduce students to concepts in the interdisciplinary field of food studies with a particular emphasis on food's role in shaping identity. Some topics they may consider include the role of food in constructing national, racial, ethnic, and socioeconomic identities; the importance of cultural exchange in creating cuisine; and food as a repository for memory and method of cultural preservation. Pre-requisite(s): Placement by the Director of College Writing. Enrollment Limit: 12.00 Attributes: Natural Science C: Physical and Natural Processes Quantitative</p>										
	2565	001	1.0	Elizabeth Jones-Minsinger		T Th	10:00AM	11:30AM		0
WRPR	H105B	The Politics of Self-Care								
<p>In this course, we'll interrogate the relationships between self-care; politics; and physical, mental, and spiritual health by turning to three distinct moments in the history of American self-care: "self-reliance" in the 19th c. as articulated by Emerson and Thoreau; late 20th c activist groups including the Black Panther Party, the Boston Women's Health Collective, and ACT UP; and contemporary understandings of self-care discourses such as wellness and the perspectives of those living with chronic illnesses. Pre-requisite(s): Placement by the Director of College Writing. Enrollment Limit: 12.00 Attributes: Quantitative Natural Science C: Physical and Natural Processes</p>										
	2566	001	1.0	Jessica Hayden Libow		M W	11:30AM	1:00PM		0
	2567	002	1.0	Jessica Hayden Libow		M W	1:00PM	2:30PM		0
WRPR	H106A	Feminism Before Suffrage								

Haverford College Fall 2022 Course Guide

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<p>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.</p> <p>Pre-requisite(s): Placement by the Director of College Writing.</p> <p>Enrollment Limit: 12.00</p>										
	2682	001	1.0	Jessica Hayden Libow	M W	11:30AM	1:00PM			12
	2683	002	1.0	Jessica Hayden Libow	M W	1:00PM	2:30PM			12
WRPR	H108B	Real Work & Dream Jobs: Visual Representations and Theories of Work								
<p>An entry into theories of work, thinking critically and historically about the role of work in society, the promise of art as an ideal form of work, and the structural persistence of gendered, classed, and racial divisions of labor. Open only to first-year students as assigned by the Director of College Writing.</p> <p>Enrollment Limit: 12</p>										
	2544	001	1.0	Shannan Hayes	M W	11:30AM	1:00PM			0
	2545	002	1.0	Shannan Hayes	T Th	10:00AM	11:30AM			0
WRPR	H111B	Power, Place, and Film								
<p>This writing seminar introduces students to film analysis through the themes of power and place and covers topics such as colonialism and imperialism, immigration, inequality, etc. Open only to first-year students as assigned by the Director of College Writing.</p> <p>Enrollment Limit: 12</p>										
	1489	001	1.0	Nimisha Ladva	M W	1:00PM	2:30PM			0
WRPR	H118A	Portraits of Disability and Difference								
<p>Rosemarie Garland-Thomson writes that "staring is an interrogative gesture that asks what's 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.</p> <p>Enrollment Limit: 12</p>										
	1549	001	1.0	Kristin Anne Lindgren	T Th	2:30PM	4:00PM	HLL106		12
WRPR	H120A	Evolutionary Arguments								
<p>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?</p> <p>Open only to first-year students as assigned by the Director of College Writing.</p> <p>Enrollment Limit: 12</p>										
	2598	001	1.0	Carol Schilling	T Th	2:30PM	4:00PM	LUT211		12
WRPR	H124B	Writing and the Senses								
<p>"What I am trying to translate," Cezanne said, "is more mysterious; it is entwined in the very roots of being." Reading our senses requires interpretation. What do the senses teach us about ourselves? How do they help us understand who we are in our sense-saturated world? How do the senses simultaneously inform each other? What on-going problems do they pose and which do they help us resolve? Writing and the Senses is a course that will help you to become a more effective and sophisticated writer using the five senses as a focus. The mode of the class is close reading and the analysis of text combined with the exploration of how our sense-data provides insight into the cognitive, biological, and spiritual aspects of our human nature. The seminar is designed to sharpen and broaden your senses and sensibilities via expository writing. Readings include selections from <i>Flush: A Biography</i> by Virginia Woolf, <i>Letters on Cezanne</i> by Rainer Maria Rilke, <i>Proust Was a</i></p>										

Haverford College Fall 2022 Course Guide

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Neuroscientist by Jonah Lehrer, Musicophilia: Tales of Music and the Brain by Oliver Sacks, and How to Cook a Wolf by M.F.K. Fisher. The class will also have the opportunity to take a field trip to The Barnes Foundation.										
	2540	001	1.0	Ava Shirazi						0
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										
	2600	001	1.0	Shannan Hayes	M W	11:30AM	1:00PM	LUT230		11
	2601	002	1.0	Shannan Hayes	M W	2:30PM	4:00PM	LUT230		12
WRPR	H126A	Radical Black Feminisms and the Carceral State								
With growing calls for the abolition of prisons and all systems of racial-sexual domination, this course will examine a long history of works by and about Black women political prisoners since the Black Power Era. Open only to first-year students as assigned by the Director of College Writing.										
Enrollment Limit: 12										
	2596	001	1.0	Tajah Ebram	T Th	10:00AM	11:30AM	GST103		12
	2597	002	1.0	Tajah Ebram	T Th	11:30AM	1:00PM	GST103		12
WRPR	H127B	Reading Jazz								
A study of jazz and its many meanings, from Louis Armstrong to John Coltrane, and from Charles Mingus to Sun Ra. We'll explore the music itself, of course. But our main focus will be on the stories that its creators tell about themselves, and the stories that various eye (and ear) witnesses and critics tell about why jazz matters. Together, we will discuss, question, and write about topics such as art and entertainment, difference and race, ownership and authenticity, discrimination and community.										
Enrollment Limit: 12										
Attributes: Visual Studies Humanities A: Creative Expression										
	2546	001	1.0	Richard Freedman	M W	10:00AM	11:30AM			0
WRPR	H136B	Black Ecologies								
This course engages writings and cultural works about Black eco-literary and ecological traditions. Black Ecologies focuses on the multiple ecological and spatial conditions that have over-determined Black life and relationships to nature including the middle passage, slavery, racial segregation, food apartheid, gentrification and even incarceration. All these phenomena have produced unequal access to natural resources, space, food and land through systems that racialize, gender and commodify space. By exploring Black cultural and land based worker's literary, cultural, and community responses to anti-Black environmental conditions, we will consider how Black communities reclaim spatial autonomy through creative modes of collective liberation. Student's critical and creative writing will be based on course texts and outdoor experiences of observation and laboring collectively at Haverfarm. Open only to first-year students as assigned by the Director of College Writing.										
Crosslisted: AFST, ENVS.										
	2541	001	1.0	Tajah Ebram	T Th	10:00AM	11:30AM			0
	2542	002	1.0	Tajah Ebram	T Th	11:30AM	1:00PM			0
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										

Haverford College Fall 2022 Course Guide

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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										
	1552	001	1.0	Kimberly Benston	T Th	10:00AM	11:30AM	LUT211	12	
	1553	002	1.0	Elizabeth Kim	T Th	10:00AM	11:30AM	LUT230	12	
	1554	003	1.0	Danielle Allor	T Th	2:30PM	4:00PM	UN111	10	
WRPR	H150B	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										
<i>Attributes: Natural Science C: Physical and Natural Processes</i>										
	1493	001	1.0	Debora Sherman	T Th	10:00AM	11:30AM		0	
	1494	002	1.0	Gustavus T. Stadler	T Th	1:00PM	2:30PM		0	
	1495	003	1.0	Danielle Allor	T Th	2:30PM	4:00PM		0	
WRPR	H155B	Origin Stories: Narrating Asian America								
In this course we will read a range of origin stories--creation narratives, memoirs, alter/native accounts of settler colonialism, and trickster tales--that delineate constructions of identity and constitutions of community with a focus on the ways in which writers and artists represent ongoing "encounters" between indigenous and imperial cultures, examining inventive work that play with genres ranging from the lyric to the epic to speculative fiction as a means of offering new ways of understanding history and imagining the future. Open only to first-year students as assigned by the Director of College Writing.										
Enrollment Limit: 12										
<i>Attributes: Natural Science</i>										
	1496	001	1.0	Theresa M. Tensuan	T Th	11:30AM	1:00PM		0	
WRPR	H156A	Good Guys & Gals? Quaker Imagery in Fiction								
What have been the literary uses of Quaker ideas and images in fiction? How have these changed over time? Here on the Haverford campus, with its Quaker heritage and traditions, is housed perhaps the largest collection of Quaker novels anywhere in the world, fiction by or about Quakers, often populated with characters whose Quakerliness is designed to evoke a certain mood, message, or subtext. For some authors, Quakers became stand-ins for virtue. For others, the Quaker image is of the troublemaker, the nay-sayer, the haughty, unbending zealot. In this course we will read excerpts from an array of Quaker fiction. Then, through class discussions, written essays, and through considering each others writing, students will explore how commentators have interpreted the meaning of "Quakerness" in literature." Open only to first-year students as assigned by the Director of College Writing.										
Enrollment Limit: 12										
<i>Attributes: Social Science</i>										
	2599	001	1.0	Emma Lapsansky	T Th	10:00AM	11:30AM	LNKL205	8	
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										
	2871	001	1.0	Emma Lapsansky	T Th	11:30AM	1:00PM	LNKL205	12	

Haverford College Fall 2022 Course Guide

Subject	Cat Nbr	CLNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
WRPR	H182B				The American Family in Historical Perspective					
<p>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: Natural Science</p>										
	1497	001	1.0	Emma Lapsansky		T Th	10:00AM	11:30AM		0
WRPR	H186A				Reinventing Quakerism: Haverford College, Rufus Jones, and the Invention of Liberal Quakerism					
<p>Quakerism isn't stable. It varies from place to place and from generation to generation. There is a real sense in which Orthodox Quakerism (the form of Quakerism that is most closely connected to Haverford College) was reinvented in the late nineteenth and early twentieth centuries. Students in this course will examine some of the changes that Orthodox Quakerism underwent between the 1860s and the 1940s by analyzing the life and thought of Rufus Jones (1863-1948). Jones is the most famous Quaker ever to teach at Haverford and one of most influential scholars ever produced by the Religious Society of Friends. Open only to first-year students as assigned by the Director of College Writing. Enrollment Limit: 12</p>										
	2678	001	1.0	David Harrington Watt		T Th	1:00PM	2:30PM	LUT230	7
WRPR	H188A				Epidemics and Society					
<p>An examination of the ways epidemics are shaped by society, culture, and popular representation, using historical sources to explore the politics of disease narratives and how class, race, and identity influence responses to epidemics. Open only to first-year students as assigned by the Director of College Writing. Enrollment Limit: 12</p>										
	1555	001	1.0	Eli Anders		T Th	10:00AM	11:30AM	UN111	12
	1556	002	1.0	Eli Anders		T Th	1:00PM	2:30PM	UN111	12
WRPR	H194B				Astronomical Questions and Science Writing					
<p>In this seminar we will explore the biggest questions in the Universe, along with other recent developments in astrophysics via a series of writing assignments. Topics are likely to include black holes, dark matter, dark energy, the Big Bang, exoplanets and life in the Universe. Prerequisite(s): Open only to first-year students as assigned by the Director of College Writing. Enrollment Limit: 12 Attributes: B: Analysis of the Social World Quantitative Social Science</p>										
	1502	001	1.0	Karen L. Masters		T Th	1:00PM	2:30PM		0