

FALL 2023 COURSE GUIDE

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

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

## Faculty-Approved Teaching Times

Μ		1:30 PM-3:55 PM
М		7:30 PM-9:55 PM
М	F	1:00 PM-2:25 PM
Μ	WF	8:30 AM-9:25 AM
Μ	WF	9:30 AM-10:25 AM
Μ	WF	10:30 AM-11:25 AM
Μ	W F	11:30 AM-12:25 PM
Μ	WF	1:30 PM-2:25 PM
Μ	WF	2:30 PM-3:25 PM
Μ	$\overline{W}$	11:30 AM-12:55 PM
Μ	$\overline{W}$	1:00 PM-2:25 PM
Μ	$\overline{W}$	2:30 PM-3:55 PM
Μ	F	11:30 AM-12:55 PM
Μ	F	2:30 PM-3:55 PM
Т		1:30 PM-3:55 PM
Т		7:30 PM-9:55 PM
Т	Th	8:30 AM-9:55 AM
Т	Th	10:00 AM-11:25 AM
Т	Th	11:30 AM-12:55 PM
Т	Th	1:00 PM-2:25 PM
Т	Th	2:30 PM-3:55 PM
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W	F	11:30 AM-12:55 PM
W	F	1:00 PM-2:25 PM
W	F	2:30 PM-3:55 PM
F		1:30 PM-3:55 PM

## Numbering System & Symbols

001-009 elementary courses.

100-199 first-year and introductory courses.

200-299 second-year courses.

300-399 advanced courses.

**400-499** special categories of work (e.g., 480 for independent study courses).

## The suffixes (following a number) indicate:

A: one-credit course given in the Fall Semester.

B: one-credit course given in the Spring Semester.

C: one-credit course given throughout the year.

D: half-credit course given during September-October.

E: half-credit course given during November-December.

F: half-credit course given throughout the first semester.

G: half-credit course given during February-March.

H: half-credit course given during April-May.

I: half-credit course given throughout the second semester.

J: half-credit course given throughout the year.

## Academic Calendar

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

	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl				
ST	H101A Introduction to African and Africana Studies									
	An interdisciplinary introduction to Africana Studies, emphasizing change and response among African peoples in Africa and outside.									
	Attributes: Africana Studies B: Analysis of the Social World Social Science									
	2708 001 1.0 Kevin Quin	T Th	2:30PM	3:55PM	CHS101	5				
	2708 001 1.0 Kevin Quin	T Th	2:30PM	3:55PM	CHS101	5				
FST	H319A Black Queer Saints: Sex, Gender, Race, Class and the Quest for Liberation									
	Drawing on fiction, biography, critical theory, film, essays, and memoirs, particip	ants will	l explore h	ow certain	African					
	American artists, activists, and religionists have resisted, represented, and reint	erpreted	sex, sexua	lity, and g	ender norms	3				
	in the context of capitalist, white supremacist, male supremacist, and heteronormat	ive cultu	ıres.							
	Crosslisted: Africana Studies, Religion									
	Prerequisite(s): 200-level Humanities course, or instructor consent									
	Enrollment Limit: 15									
	Attributes: A: Meaning, Interpretation (Texts) Africana Studies B: Analysis of	the Socia	al World	Gender and	Sexuality					
	Studies Humanities									
	2707 001 1.0 Terrance Wiley	М	7:30PM	9:55PM	UN111	1				
AFST	H376A Literature and Politics of South African Apartheid									
	This course explores the history and historiography of South African apartheid from		-							
	overthrow in 1994. We will consider the interplay between complex definitions of ra									
	novels, plays, and poetry written during the apartheid years. We will also discuss									
	aesthetics of literary production in a time of political oppression. What would it									
	in a cultural space rife with racial and social tensions? Authors will include Nadi	ne Gordir	ner, Alan P	aton, J.M.C	oetzee,					
	in a cultural space rife with racial and social tensions? Authors will include Nadine Gordimer, Alan Paton, J.M.Coetzee,  Bessie Head, and Alex La Guma, Crosslisted with Africana Studies									
	Bessie Head, and Alex La Guma. Crosslisted with Africana Studies.		,	•						
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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 critical awareness of the ways in which film and medical in general perpetuates and representations and a such and study a wide variety of innovative documentary films that bring alternative voices and bistories 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. Enrollement Limit: 12.00  Actributes: A: Creative Expression B: Analysis of the Social World Social Science Visual Studies  1711 0011 1.0 Zeynep Serbalut 7 Th 11:30AM 12:55FM VCAMPOIL  ANTH B276A Global Media Worlds  This course class an anthropological approach to examine social and cultural practices of madia production, circulation, and the contemporary world.  Fro-requisite(s): 100-level course in social sciences, or humanities.  Lottery Preference: Senior anthropology students have a priority to take the class.  Lottery Preference: Senior anthropology students have a priority to take the class.  Lottery Preference: Senior anthropology students have a priority to take the class.  Lottery Preference: Senior anthropology students have a priority to take the class.  Lottery Preference: Senior anthropology students have a priority to take the class.  Lottery Preference: Senior anthropology students have a priority to take the class.  Lottery Preference: Senior anthropology students have a priority to take the class.  Lottery Preference: Annual second production and the world social Science  1713 001 1.0 Zeynep Settbult This course is Annual second production.  ANTH B30A Situation of the Social World Social Science  1715 001 1.0 Zeynep Settbulty This course traces th	Enrld
Attributes: A: Creative Expression B: Analysis of the Social World Social Science Visual Studies 1711 001 1.0 Zepnep Sertbulut T T Th 11:30AM 12:55FM VCAM201  ANTH H276A Global Media Worlds This course takes an anthropological approach to examine social and cultural practices of media production, circulation, an 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. Birollment Limit: 25.00 Attributes: B: Analysis of the Social World Social Science 1713 001 1.0 Zeynep Sertbulut T T h 2:30PM 3:55PM  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 Attributes: B: Analysis of the Social World Social Science 1154 001 1.0 Zolani Noonan-Nymane Th 1:30PM 3:55PM  ANTH H336A Science, Technology, Medicine, Power: (De) colonial knowledge production, notions of technological "progress," and political, sconomic, history, as well as work in anthropology and STS that center non-western and indigenous traditions of knowledge and the voices of BIEOC and feminist scholars.  Crosslisted: HLTH.  Pre-requisite(s): Introductory level coursework in anthropology (sociocultural or medical) or health studies Lottery Preference: Anthropology, health studies Social Science 2717 0	1
H276A Global Media Worlds This course takes an anthropological approach to examine social and cultural practices of media production, circulation, an 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  Attributes: B: Analysis of the Social World Social Science  1713 001 1.0 Zeynep Sertbulut  T Th 2:30PM 3:55PM  NNTH  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  Attributes: B: Analysis of the Social World Social Science  1154 001 1.0 Zelann Noonan-Naywane  Th 1:30PM 3:55PM  NATH  H36A Science, Technology, Medicine, Power: (De)colonial knowledge production & epistemological community This course traces the relationship between scientific knowledge production of technological "progress," and political, economic, naid institutional power through the disciplinary histories of anthropology and Science and Technology Studies. Texts will include STS classics that frame contemporary science and medicine as the products of political and economic history, as well as work in anthropology and STS that center non-western and indigenous traditions of knowledge and the voices of BIPDC and feminist scholars.  Crosslisted: HJTH.  Pre-requ	
This course takes an anthropological approach to examine social and cultural practices of media production, circulation, an 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  Attributes: 8: Analysis of the Social World Social Science  1713 001 1.0 Zeynep Sertbulut  The 2:30PM 3:55PM  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 Attributes: 8: Analysis of the Social World Social Science  1154 001 1.0 Zolani Noonan-Ngwane  The 1:30PM 3:55PM  ANTH H336A Science, Technology, Medicine, Power: (De)colonial knowledge production for epistemological community This course traces the relationship between scientific knowledge production, notions of technological "progress," and political, economic, and institutional power through the disciplinary histories of anthropology and Science and Technology Studies. Texts will include STS classics that frame contemporary science and medicine as the products of political and economic history, as well as work in anthropology and STS that center non-western and indigenous traditions of knowledge and the voices of BIPOC and feminist scholars.  Crosslisted: HJTH.  Pre-requisite(s): Introducto	11
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 EMC ANTH B303  Attributes: B: Analysis of the Social World Social Science  1154 001 1.0 Zolani Noonan-Ngwane  Th 1:30PM 3:55PM  ANTH H336A Science, Technology, Medicine, Power: (De) colonial knowledge production & epistemological community  This course traces the relationship between scientific knowledge production, notions of technological "progress," and political, economic, and institutional power through the disciplinary histories of anthropology and Science and Technology Studies. Texts will include STS classics that frame contemporary science and medicine as the products of political and economic history, as well as work in anthropology and STS that center non-western and indigenous traditions of knowledge and the voices of BIPOC and feminist scholars.  Crosslisted: HLTH.  Pre-requisite(s): Introductory level coursework in anthropology (sociocultural or medical) or health studies Lottery Preference: Anthropology, health studies, history, political science  Enrollment Limit: 15.00  Attributes: B: Analysis of the Social World Health Studies Social Science  2717 001 1.0 Michael D'Arcy  W 1:30PM 3:55PM  ANTH H450A Semior Seminar: Research and Writing  The fall semester of the two-semester senior thesis seminar. Students do archival and ethnographic research, write a research prospectus, get training on ethics, and write a review of the anthropological literature on their area of inquiry. Attributes: B: Analysis of the Social World Social Science	
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  Attributes: B: Analysis of the Social World Social Science  1154 001 1.0 Zolani Noonan-Ngwane  Th 1:30PM 3:55PM  NATH  H336A Science, Technology, Medicine, Power: (De) colonial knowledge production & epistemological community  This course traces the relationship between scientific knowledge production, notions of technological "progress," and political, economic, and institutional power through the disciplinary histories of anthropology and Science and Technology Studies. Texts will include STS classics that frame contemporary science and medicine as the products of political and economic history, as well as work in anthropology and STS that center non-western and indigenous traditions of knowledge and the voices of BIPOC and feminist scholars.  Crosslisted: HLTH.  Pre-requisite(s): Introductory level coursework in anthropology (sociocultural or medical) or health studies Lottery Preference: Anthropology, health studies, history, political science  Enrollment Limit: 15.00  Attributes: B: Analysis of the Social World Health Studies Social Science  2717 001 1.0 Michael D'Arcy  W 1:30PM 3:55PM  H450A Senior Seminar: Research and Writing  The fall semester of the two-semester senior thesis seminar. Students do archival and ethnographic research, write a research prospectus, get training on ethics, and write a review of the anthropological literature on their area of inquiry. Attributes: B: Analysis of the Social World Social Science	10
H336A Science, Technology, Medicine, Power: (De)colonial knowledge production & epistemological community  This course traces the relationship between scientific knowledge production, notions of technological "progress," and political, economic, and institutional power through the disciplinary histories of anthropology and Science and Technology Studies. Texts will include STS classics that frame contemporary science and medicine as the products of political and economic history, as well as work in anthropology and STS that center non-western and indigenous traditions of knowledge and the voices of BIPOC and feminist scholars.  Crosslisted: HITH.  Pre-requisite(s): Introductory level coursework in anthropology (sociocultural or medical) or health studies  Lottery Preference: Anthropology, health studies, history, political science  Enrollment Limit: 15.00  Attributes: B: Analysis of the Social World Health Studies Social Science  2717 001 1.0 Michael D'Arcy W 1:30PM 3:55PM  ANTH H450A Senior Seminar: Research and Writing  The fall semester of the two-semester senior thesis seminar. Students do archival and ethnographic research, write a research prospectus, get training on ethics, and write a review of the anthropological literature on their area of inquiry. Attributes: B: Analysis of the Social World Social Science	15
epistemological community  This course traces the relationship between scientific knowledge production, notions of technological "progress," and political, economic, and institutional power through the disciplinary histories of anthropology and Science and Technology Studies. Texts will include STS classics that frame contemporary science and medicine as the products of political and economic history, as well as work in anthropology and STS that center non-western and indigenous traditions of knowledge and the voices of BIPOC and feminist scholars.  Crosslisted: HLTH.  Pre-requisite(s): Introductory level coursework in anthropology (sociocultural or medical) or health studies  Lottery Preference: Anthropology, health studies, history, political science  Enrollment Limit: 15.00  Attributes: B: Analysis of the Social World Health Studies Social Science  2717 001 1.0 Michael D'Arcy  W 1:30PM 3:55PM  H450A Senior Seminar: Research and Writing  The fall semester of the two-semester senior thesis seminar. Students do archival and ethnographic research, write a research prospectus, get training on ethics, and write a review of the anthropological literature on their area of inquiry. Attributes: B: Analysis of the Social World Social Science	10
2717 001 1.0 Michael D'Arcy W 1:30PM 3:55PM  ANTH H450A Senior Seminar: Research and Writing  The fall semester of the two-semester senior thesis seminar. Students do archival and ethnographic research, write a research prospectus, get training on ethics, and write a review of the anthropological literature on their area of inquiry. Attributes: B: Analysis of the Social World Social Science	ı
The fall semester of the two-semester senior thesis seminar. Students do archival and ethnographic research, write a research prospectus, get training on ethics, and write a review of the anthropological literature on their area of inquiry. Attributes: B: Analysis of the Social World Social Science	10
<u>.</u>	
1157 001 1.0 Emily Teera-Hong T 1:30PM 3:55PM	13

Three additional hours of Drill required.

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrlo					
	Enrollment Limit: 20 Lottery Preference(s): 14 spaces reserved for incoming freshmen; (1) Freshmenjor/Minor/Concentration; (5) Permission of Instructor	man; (2) sophomore	e; (3) Junio	or; (4)							
	Attributes: A: Meaning, Interpretation (Texts) Humanities										
	1143 001 1.5 Manar Darwish	T Th	8:30AM	10:00AM	STO10	12					
	1144 00A .0 Manar Darwish Meets at Haverford	M W F	8:30AM	9:25AM	STO10	8					
	1145 00B .0 Manar Darwish Meets at Bryn Mawr	M W F	10:10AM	11:00AM		4					
ARTS	H101D Arts Foundation-Drawing (2-D)										
	A seven-week introductory course for students with little or no experience										
	with a painter's eye. Composition, perspective, proportion, light, form, pi		other fundar	mentals wil	l be						
	studied. We will work from live models, still life, landscape, imagination	and masterwork.									
	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors										
	Attributes: A: Creative Expression Humanities Visual Studies										
	1236 001 .5 Michael Shultis	М	7:30PM	9:55PM	ARTS8A	15					
ARTS	H101E Arts Foundation-Drawing (2-D)										
	A seven-week introductory course for students with little or no experience	in drawing. Stude	ents will fi	rst 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.									
	studied. We will work from live models, still life, landscape, imagination Enrollment Limit: 15	and masterwork.									
		and masterwork.									
	Enrollment Limit: 15	and masterwork.									
	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors	and masterwork.	7:30 PM	9:55PM	ARTS8A	15					
ARTS	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography	М				15					
ARTS	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography	M ography to student	ts with some	or no ski	lls in	15					
ARTS	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography. Students learn how to develop negatives, print enlargements, a	M ography to student and printing techr	ts with some	e or no ski as burning	lls in						
ARTS	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography. Students learn how to develop negatives, print enlargements, and exposure time. This class also requires a two-hour workshop. The day a	M ography to student and printing techr	ts with some	e or no ski as burning	lls in						
ARTS	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography. Students learn how to develop negatives, print enlargements, and exposure time. This class also requires a two-hour workshop. The day at the first class. Offered in the first quarter.	M ography to student and printing techr	ts with some	e or no ski as burning	lls in						
ARTS	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography. Students learn how to develop negatives, print enlargements, and exposure time. This class also requires a two-hour workshop. The day at the first class. Offered in the first quarter. Enrollment Limit: 12	M ography to student and printing techr	ts with some	e or no ski as burning	lls in						
\rTS	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography. Students learn how to develop negatives, print enlargements, and exposure time. This class also requires a two-hour workshop. The day at the first class. Offered in the first quarter. Enrollment Limit: 12 Attributes: A: Creative Expression Humanities Visual Studies	M ography to student and printing techr and time of the wo	cs with some	e or no ski as burning be determ	lls in , dodging, ined during	ì					
	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography. Students learn how to develop negatives, print enlargements, a and exposure time. This class also requires a two-hour workshop. The day at the first class. Offered in the first quarter. Enrollment Limit: 12 Attributes: A: Creative Expression Humanities Visual Studies 1234 001 .5 William Williams	M ography to student and printing techr	ts with some	e or no ski as burning	lls in						
ARTS ARTS	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography. Students learn how to develop negatives, print enlargements, and exposure time. This class also requires a two-hour workshop. The day at the first class. Offered in the first quarter. Enrollment Limit: 12 Attributes: A: Creative Expression Humanities Visual Studies 1234 001 .5 William Williams  H104D Arts Foundation - Sculpture	M ography to student and printing technand time of the wo	ts with some niques such prkshop will 1:30PM	e or no ski as burning be determ	lls in , dodging, ined during	14					
	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography. Students learn how to develop negatives, print enlargements, and exposure time. This class also requires a two-hour workshop. The day at the first class. Offered in the first quarter. Enrollment Limit: 12 Attributes: A: Creative Expression Humanities Visual Studies 1234 001 .5 William Williams  H104D Arts Foundation - Sculpture This is a seven-week, half semester course designed to provide an introduct	ography to student and printing techn and time of the wo	ts with some niques such prkshop will 1:30PM	e or no ski as burning be determ 3:55PM	lls in , dodging, ined during  ARTS15	14					
	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography. Students learn how to develop negatives, print enlargements, and exposure time. This class also requires a two-hour workshop. The day at the first class. Offered in the first quarter. Enrollment Limit: 12 Attributes: A: Creative Expression Humanities Visual Studies 1234 001 .5 William Williams  H104D Arts Foundation - Sculpture This is a seven-week, half semester course designed to provide an introduct Skills associated with organizing and constructing three-dimensional form we	ography to student and printing techn and time of the wo	ts with some niques such prkshop will 1:30PM ensional conthrough a s	e or no ski as burning be determ 3:55PM	lls in , dodging, ined during  ARTS15  techniques	14					
	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography. Students learn how to develop negatives, print enlargements, and exposure time. This class also requires a two-hour workshop. The day at the first class. Offered in the first quarter. Enrollment Limit: 12 Attributes: A: Creative Expression Humanities Visual Studies 1234 001 .5 William Williams  H104D Arts Foundation - Sculpture This is a seven-week, half semester course designed to provide an introduct Skills associated with organizing and constructing three-dimensional form within a contemporary context. The first projects will focus on basic three	ography to student and printing techn and time of the wo	ts with some niques such prkshop will 1:30PM  ensional conthrough a scepts, while	e or no ski as burning be determ  3:55PM  Accepts and series of periods and periods are periods and periods and periods and periods are periods and periods and periods are periods and periods and periods and periods are periods are periods and periods are pe	lls in , dodging, ined during  ARTS15  techniques rojects jects will	14					
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	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography. Students learn how to develop negatives, print enlargements, a and exposure time. This class also requires a two-hour workshop. The day at the first class. Offered in the first quarter. Enrollment Limit: 12 Attributes: A: Creative Expression Humanities Visual Studies 1234 001 .5 William Williams  H104D Arts Foundation - Sculpture This is a seven-week, half semester course designed to provide an introduct Skills associated with organizing and constructing three-dimensional form within a contemporary context. The first projects will focus on basic three allow for greater individual self-expression and exploration. Various fabribasic mold making, and casting will be demonstrated in class. All fabrications.	ography to student and printing techn and time of the wo	ts with some niques such prkshop will 1:30PM  ensional conthrough a septs, while cluding cons	e or no ski as burning be determ 3:55PM acepts and series of p	lls in , dodging, ined during  ARTS15  techniques. rojects jects will modeling,	14					
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	Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors Attributes: A: Creative Expression Humanities Visual Studies 1246 001 .5 Michael Shultis  H103D Arts Foundation-Photography This is a half-semester course to introduce the craft and artistry of photography. Students learn how to develop negatives, print enlargements, a and exposure time. This class also requires a two-hour workshop. The day at the first class. Offered in the first quarter. Enrollment Limit: 12 Attributes: A: Creative Expression Humanities Visual Studies 1234 001 .5 William Williams  H104D Arts Foundation - Sculpture This is a seven-week, half semester course designed to provide an introduct Skills associated with organizing and constructing three-dimensional form we within a contemporary context. The first projects will focus on basic three allow for greater individual self-expression and exploration. Various fabric basic mold making, and casting will be demonstrated in class. All fabrication and no prior experience is required to successfully complete this course. Enrollment Limit: 15 Lottery Preference: Fine Arts majors and minors	ography to student and printing techn and time of the wo	ts with some niques such prkshop will 1:30PM  ensional conthrough a septs, while cluding cons	e or no ski as burning be determ 3:55PM acepts and series of p	lls in , dodging, ined during  ARTS15  techniques. rojects jects will modeling,	14					
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This is a seven-week, half semester course designed to provide an introduction to three dimensional concepts and techniques. Skills associated with organizing and constructing three-dimensional form will be addressed through a series of projects within a contemporary context. The first projects will focus on basic three-dimensional concepts, while later projects will allow for greater individual self-expression and exploration. Various fabrication skills including construction, modeling, basic mold making, and casting will be demonstrated in class. All fabrication techniques will be covered in detail in class, and no prior experience is required to successfully complete this course.

Enrollment Limit: 15

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Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl
	Lottery Preference: Fine Arts majors and minors					
	Attributes: A: Creative Expression Humanities Visual Studies					
	1238 001 .5 Markus Baenziger	W	1:30PM	3:55PM	ARTS8A	15
ARTS	H107D Arts Foundation-Painting	**	1.50111	3.00111	111(10011	
KIS	A seven-week introductory course for students with little or no experience in p	nainting Stu	dents will h	e first in	troduced to	
	the handling of basic tools, materials and techniques. We will study the color					
	color, warms & cools, complementary colors, optical mixture, texture, surface of	_				
	life, landscape, imagination and masterwork.	quarrey. We w	III WOIN IIC	m iive moa	CI, DCIII	
	Enrollment Limit: 15					
	Lottery Preference: Fine Arts majors and minors					
	Attributes: A: Creative Expression Humanities Visual Studies					
	2457 001 .5 Jonathan C. Goodrich	Т	10:00AM	12:25PM	ARTS8A	15
ARTS	H107E Arts Foundation-Painting					
	A seven-week introductory course for students with little or no experience in p	painting. Stu	dents will b	e first in	troduced to	
	the handling of basic tools, materials and techniques. We will study color the	ory such as i	nteraction c	of color, v	alue &	
	color, warms & cools, complementary colors, optical mixture, texture, and surfa	ace quality.	We will work	from live	model,	
	still life, landscape, imagination and masterwork.					
	Enrollment Limit: 15					
	Lottery Preference: Fine Arts majors and minors					
	Attributes: A: Creative Expression Humanities Visual Studies	m	10.00714	10.0EDM	7 DEG 0 7	5
	1237 001 .5 Jonathan C. Goodrich	Т	10:00AM	12:25PM	ARTS8A	5
ARTS	H108E Arts Foundation-Photography	-1 ++1			11	
	This is a half-semester course to introduce the craft and artistry of photograp	-				
	photography. Students learn how to develop negatives, print enlargements, and print and exposure time. This class also requires a two-hour workshop. The day and the		-	_		
	the first class. Offered in the second quarter.	ille of the wo	rksnob wiii	be determin	ned during	
	Enrollment Limit: 15					
	Lottery Preference: Fine Arts majors and minors					
	Attributes: A: Creative Expression Humanities Visual Studies					
	1235 001 .5 William Williams	M	1:30PM	3:55PM	ARTS15	13
RTS	H121E Foundation Printmaking: Relief Printing					
	A seven-week course covering various techniques and approaches to the art of the	ne woodcut an	d the linocu	ıt, emphasi	zing the	
	study of design principles and the expressive potential of the medium to create	e a personal	visual state	ement.		
	Enrollment limit -15	_				
	Attributes: A: Creative Expression Humanities Visual Studies					
	1247 001 .5 Hee Sook Kim	M	10:00AM	12:25PM	LOCK105	13
ARTS	H124D Foundation Printmaking: Monotype					
	Basic printmaking techniques in Monotype medium. Painterly methods, direct draw	wing, stencil	s, and braye	er technique	es for	
	beginners in printmaking will be taught. Color, form, shape, and composition in	n 2-D format	will be expl	ored. Indi	vidual and	
	group critiques will be employed.					
	Enrollment Limit: 15					
	Attributes: A: Creative Expression Humanities Visual Studies					
	1240 001 .5 Hee Sook Kim	M	10:00AM	12:25PM	LOCK105	12
ARTS	H142A Introduction to Visual Studies					-
	An introduction to the trans-disciplinary field of Visual Studies, its methods	_	-			
	media and artifacts of art history and film theory, and also an examination of		-	of all kind	s, their	
	systems of transmission, their points of consumption, and the very limits of vi	isuality itse	lf.			
	Crosslisted: Visual Studies, Fine Arts, Comparative Literature					

Enrollment Limit: 25
Lottery Preference(s):

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	1.) Senior Visual Studies minors					
	2.) Other declared Visual Studies minors					
	5 spaces reserved for incoming first years					
	Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies					
	1508 001 1.0 John Hancock Muse	T Th	10:00AM	11:25AM	VCAM201	3
RTS	H231A Drawing (2-D): All Media		10.00111	11,001111	. 0111201	
	Students are encouraged to experiment with various drawing media and to explore t	he relation	nships betwe	en media.	techniques	
	and expression. Each student will strive to develop a personal approach to drawin		-	•	-	
	pictorial space, structure, scale, and rhythm. Students will work from observation	-	-			
	includes drawing projects, individual and group crits, slide lectures, museum and	_		3		
	Attributes: A: Creative Expression Humanities Visual Studies	3 1				
	1581 001 1.0 Jonathan C. Goodrich	Т	1:30PM	3:55PM	ARTS8A	12
RTS	H243A Sculpture: Materials and Techniques					
	This course is designed to give students an in-depth introduction to a comprehens	sive range o	of three-dim	ensional co	oncepts and	
	fabrication techniques. Emphasis will be on wood and metal working, and additiona	al processe:	s such as ca	sting proce	edures for	
	a range of synthetic materials and working with digital tools including a laser of	cutter and (	CNC equipmen	t will be	introduced	
	in class. Course may be repeated for credit.					
	Prerequisite: ARTSH104 or permission from the instructor.					
	Attributes: A: Creative Expression Humanities Visual Studies					
	1239 001 1.0 Markus Baenziger	M	10:00AM	12:25PM	ARTS8A	10
RTS	H251A Photography: Materials and Techniques					
	Students are encouraged to develop an individual approach to photography. Emphasi	is is placed	d on the cre	ation of co	olor	
	photographic prints which express plastic form, emotions and ideas about the phys	sical world	. Work is cr	itiqued we	ekly to	
	give critical insights into editing of individual student work and the use of the	e appropriat	te black-and	-white phot	tographic	
	materials in analog or digital formats necessary to give coherence to that work.	-		-		
	gallery and museum exhibitions, lectures and a critical analysis of photographic					
	supplement the weekly critiques. In addition students produce a handmade archival			•	is	
	organized into a loose sequence and mounted to archival standards. Prerequisite:	Fine Arts	103 or equiv	alent.		
	Attributes: A: Creative Expression Humanities Visual Studies					_
	1250 001 1.0 William Williams	М	10:00AM	12:25PM	ARTS15	5
RTS	H322A Experimental Studio: Printmaking: Lithography					
	An advanced course exploring traditional and experimental lithographic printmaking	_	-	-		
	Two- and three- dimensional and design and drawing exploration in color also are		-			
	use multiple-plate and stone lithography in colors. Registration, color separation					
	level. Combining other mediums can be explored individually. Development of techr				-	
	with personal visual study is necessary and creative and experimental approaches					
	work following a specific theme is required. Individual discussions and group cri	itiques are	nela perioa	ically. Add	altional	
	research on the history of printmaking is requested.					
	Prerequisite(s): One course in printmaking or instructor consent					
	Enrollment Limit: 15					
	Attributes: Humanities 2456 001 1.0 Hee Sook Kim	Th	10:00AM	12:25PM	LOCK105	4
		111	10:00AM	12:2JFM	TOCKIOO	4
RTS	H333A Experimental Studio: Painting	in indicidu	al ammanah	+	~ Ctudonto	
	Students will build on the work done in 200 level courses to develop further their					
	are expected to create projects that demonstrate the unique character of their ch		_			
	Completed projects will be exhibited at the end of semester. Class will include wartists' lecture and crits. Each student will present a 15- minute slide talk and	-	•	•	_	
	work of artists who influenced them.	a discussion	i or erther	CHETT OMIJ /	work or rue	
	WOLK OF ALCISCS WHO INTIMENICED CHEM.					

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10:00AM 12:25PM ARTS8A

6

Attributes: A: Creative Expression Humanities Visual Studies

1582 001 1.0 Jonathan C. Goodrich

Subject	Cat Nbr	ClNbr S	ctn Crd	Instructor(s)			Days	Start	End	Room	Enrlo
RTS	H351A	Evnerimo	ntal Stu	dio Photography							
XI5				ded sequence of thei	r work in either h	ook or exhibition	format usi	ng black an	d white or	color	
				the sequence and scal							
				itiques, supplemente							
				ide students to the							
	project	t first ser	ester an	d the exhibition pro	ject second semest	er. At the end of	each semes	ter the stu	dent may ex	hibit	
	his/her	r project.									
	Attribu	utes: A: C	eative E	Expression Humaniti	les Visual Studie	es.					
		1249 (	01 1.0	William Williams			M	10:00AM	12:25PM	ARTS15	1
RTS	H460A	Teaching	Assista	nt							
		1248 (	01 .5	TBA Department sta	aff						0
RTS	H460D	Teaching	Assista	nt							
		1242 (	01 .5	TBA Department sta	aff						0
		1244 (	02 .5	TBA Department sta	aff						0
ARTS	H460E	Teaching	Assista	nt							
		_									
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		1243 (	01 .5	TBA Department sta	aff						0
ARTS	H480A		01 .5	•	aff						U
ARTS	This co	Independ ourse gives	ent Stud	<b>y</b> ranced student the op	portunity to exper	iment with concept	ts and idea	s and to ex	plore in de	pth his or	U
ARTS	This co	Independourse gives	ent Study the adv quisite:	Y anced student the op consent of instruct	pportunity to exper	iment with concept	ts and idea	s and to ex	plore in de	pth his or	<u> </u>
	This co	Independ ourse gives lent. Prere 2749 (	ent Study the advaguisite:	y ranced student the op consent of instruct Jonathan C. Goodri	pportunity to exper	iment with concept	ts and idea	s and to ex	plore in de	pth his or	2
	This conher tal	Independourse gives lent. Prere 2749 ( Senior I	ent Study the adv quisite: 01 1.0 epartmen	y ranced student the op consent of instruct Jonathan C. Goodri tal Studies	oportunity to expersion.						2
-	This conher tal	Independence ourse gives lent. Prere 2749 ( Senior Independent review	ent Stud the adv quisite: 01 1.0 epartmen ws the d	y ranced student the op consent of instruct Jonathan C. Goodri tal Studies Lepth and extent of e	oportunity to expersion. ich experience gained,	and in so doing co	reates a co	herent body	of work ex	pressive of	2
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ARTS	This conher tall  H499A The stuthe stuthe stuthe stuthe stuthe stuthe stuthe stuthe system  H204A General system Observation Prerequestion of the stuther system 1. Physical Soph 3. Physical Stuther system system system system of the system of the system of the system system of the	Independence ourse gives lent. Prere 2749 ( Senior I udent revieudent's insulates: Human 1241 ( Introduct including actory telessiste(s): ment Limit Preference sics, astronomores sics & astronomores sics & astronomores control of the state	ent Study the adv quisite: 01 1.0 epartmen ws the d ights an iities 01 1.0 tion to a planetar copes. MATH H11 30 e(s): physics	y anced student the op consent of instruct Jonathan C. Goodri tal Studies epth and extent of e d skills. At the end Hee Sook Kim Astrophysics stronomy including: y surfaces and atmos 8 or equivalent; PHY or astronomy majors	oportunity to experior. ich experience gained, d of the senior year the structure and opheres; exoplanets	and in so doing contract the student is expected evolution of stars; and observations	reates a co expected to W s; the prop al projects	herent body produce a 7:00PM erties and using the	of work exshow of his	epressive of or her  PARK  of the solar	2 8
ARTS	H499A The stuthe stuthe stuthe stuthe stuthe stuthe stuthe stuthe system Observation of the stuthe system Observation of the stuthe system Lottery 1. Phys 2. Soph 3. Phys 4. First	Independent present addential service and a service addential serv	ent Study the adv quisite: 01 1.0 epartmen ws the d ights an ities 01 1.0 tion to a planetar copes. MATH H11 30 e(s): physics onomy mi	y anced student the op consent of instruct Jonathan C. Goodri tal Studies epth and extent of e d skills. At the end Hee Sook Kim Astrophysics stronomy including: y surfaces and atmos 8 or equivalent; PHY or astronomy majors	experience gained, of the senior year the structure and expheres; exoplanets	and in so doing car the student is exercise evolution of stars; and observations:  11; Co-requisite(s)	reates a coexpected to  W s; the propal projects ): PHYS H10	herent body produce a 7:00PM erties and using the	of work exshow of his	epressive of or her  PARK  of the solar	2 8

An introductory course in general relativity with an emphasis on physical principles and geodesics in curved spacetime. Topics include special relativity, the calculus of variations, metrics, tensors, parallel transport, covariant derivatives, geodesics, the equivalence principle, gravitational redshift, the static weak-field metric, the Schwarzschild metric describing spacetime outside of a black holes or star, the precession of planetary orbits and the bending of light by massive objects. Additional topics may include applications to rotating black holes, gravitational waves, cosmology, or Hawking radiation. Prerequisites: Phys H213 or PHYS B205 and B207.

Attributes: C: Physical and Natural Processes Natural Science

Subject	Cat Nbr (	ClNbr	Sctn	Crd	Instructor(s)		Days	Start	End	Room	Enrld
	2	2624	001	1.0	Daniel Grin		T Th	1:00PM	2:25PM	HLS109	13
ASTR					physics				_		
				tudent	is who choose to compl	lete an independent res	earch project in astro	physics unde	er the supe	rvision of	
	a faculty			et ruct	tor consent						
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	1	1296	001	1.0	Andrea N. Lommen						0
	1	1297	002	1.0	Karen L. Masters						0
ASTR	H404F I	Resear	ch in	Astro	physics						
				tudent	ts who choose to compl	lete an independent res	earch project in astro	physics unde	er the supe	rvision of	
	a faculty										
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	_		001		Andrea N. Lommen						0
		1301	002		Karen L. Masters						U
BIOL		_	_		y - Biology Seminar Wi		: +11:-4 <i>-</i> :-14- 7			e e:	
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					year students, then s	sophomores					
	Attribute	s: C:	Physi	cal ar	nd Natural Processes	Natural Science					
	2	2888	001	1.0	Rachel Hoang		Th	1:30PM	3:55PM	FDR220	9
BIOL	H200A I	Evolut	ion, (	Geneti	.cs & Genomics						
	Three hou:	rs of	lectu	re and	d one laboratory perio	od per week. A one-year	course in cellular an	d molecular	biology, B	iology 200	
						ivity. Biology 200A dis			_		
						tic information, and ge					
					_	r. The laboratory intro	duces the student to o	ell and mole	ecular biol	ogy,	
	genetics a			_					_		
		-				reference for a specifi		_	-		
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		1572	002		Eric Miller		T Th	10:00AM	11:25AM	CHS101	37
		1573	002	1.0	Jessica Comstock		T Th	10:00AM	11:25AM	CHS101	35
		2867	003	1.0			M W	11:30AM	12:55PM	CHS104	0
		1263	004 00A		Lee Dietterich	Lab	T W	1:00PM	4:00PM	SHA118	24
		1263	00A				Т		4:00PM 2:30PM		
					Shirley Lang	Pre-Lab	=	1:00PM		SHA113	24
		1264	00B	.0	1 3	Pre-Lab	W	1:00PM	2:30PM	SHA113	23
	1	1264	00B	.0	Nancy Maas	Lab	W	1:00PM	4:00PM	SHA118	23

	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)		Days	Start	End	Room	Enrl
		1265	00C	.0	Shirley Lang	Pre-Lab	Th	1:00PM	2:30PM	SHA113	24
		1265	00C	.0	Lee Dietterich	Lab	Th	1:00PM	4:00PM	SHA118	24
		1266	00D	.0	Shirley Lang	Pre-Lab	F	1:00PM	2:30PM	SHA113	24
		1266	00D	.0	Nancy Maas	Lab	F	1:00PM	4:00PM	SHA118	24
		2868	00E	.0	Nancy Maas		F	8:30AM	11:30AM	SHA118	8
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	psychol Crossli Prerequ H129, N Enrollm Lottery seniors	ogy throsted: Psisite(s) EUR H100 ent Lims	ough cosycholo sycholo : Any ), Psyc it: 35 ence(s)	onside ogy, B one o cholog : 1)	ration of current knows iology f the following or in y AP Score 4 Psych majors, neurosc	respective experience. The courselective experience. The courselection will be subject to the mechanisms astructor consent: PSYC 100, sience majors, and neuroscience: Physical and Natural Processing.	of mind and behave PSYC B105, BIOL For the minors, 2) sog	vior. H123, BIOL H phomores, 3)	H124, BIOL 1	H128, BIOL	20
IOL	H300A				iology Sem 1		1 111	10.00AN	II.ZJAN	F DIVE 2.0	
			includi	ng po	lymerase chain reacti	uniques employed are drawn from (PCR) and site-directed mathroism and fluorescence spec	nutagenesis; prote	ein express	ion, purifi	cation and	
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	charact electron given to basis. Prerequ Enrollm Lottery	erization microso studen Each la isite (s) ent Limi Preferentes: C:	includi  on, wit  scopy;  nts pre  ab sect  : BIOI  it: 32  ence(s)  Physic	eng po ch emp and f eregis cion e H200 : Bio cal an	lymerase chain reacti hasis on circular did luorescence-activated tering for that lab s nrollment is limited and BIOL H201 with a logy majors d Natural Processes	on (PCR) and site-directed methroism and fluorescence specifical cell sorting (FACS) analysisection; students who do not to 16.  I grade of 2.0 or above, or i	nutagenesis; protectroscopy; immunos.s. Preference for preregister will nstructor consent	ein expressifluorescence a specific be assigned t	ion, purifice, confocal colab section on a space	cation and and and on will be e available	
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given to students preregistering for that lab section; students who do not preregister will be assigned on a space available basis. Enrollment in the half-semester module is by consent of instructor only.

Prerequisite(s): Successful completion of BIOL H200A and B with grades of 2.0 or higher, and instructor consent.

Enrollment Limit: 32

Lottery Preference(s): Biology majors

Attributes: C: Physical and Natural Processes Natural Science

1279	001	.5	Robert Fairman	M	1:00PM	2:25PM	SHAAUD	0
1280	00A	.0	Robert Fairman	T Th	1:00PM	4:00PM	ESTW105	0
1281	00B	.0	Robert Fairman	WF	1:00PM	4:00PM	ESTW105	0

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
BIOL	H300E Advanced Lab in Biology Sem 1 One lecture and two laboratory periods per week. An introduction to the appli study in interesting biological questions. Techniques employed are drawn from manipulation, including polymerase chain reaction (PCR) and site-directed mut characterization, with emphasis on circular dichroism and fluorescence spectr electron microscopy; and fluorescence-activated cell sorting (FACS) analysis. given to students preregistering for that lab section; students who do not pr basis. Enrollment in the half-semester module is by consent of instructor onl Prerequisite(s): Successful completion of BIOL H200A and B with grades of 2.0 Enrollment Limit: 32	a: cloning and nagenesis; protestoscopy; immuno: Preference for eregister will Y.	nucleic acione ein expressifluorescence a specific be assigned	ds (DNA and ion, purifie, confocal clab section on a space	RNA) cation and and on will be	
	Lottery Preference(s): Biology majors Attributes: C: Physical and Natural Processes Natural Science 1282 001 .5 Karl A. Johnson 1283 00A .0 Karl A. Johnson 1284 00B .0 Karl A. Johnson	M T Th W F	1:00PM 1:00PM 1:00PM	2:25PM 4:00PM 4:00PM	SHAAUD ESTW105 ESTW105	0 0 0
BIOL	H302A Advanced Lab in Neuroscience  One lecture and two laboratory periods per week. An introduction to applying experimental approaches for studying nervous system development and function. novel neurobiological questions, drawing from experimental techniques includi recording, neuropharmacology, fluorescence imaging, optogenetic manipulation and computational tracking and analysis of animal behavior.  Prerequisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, or PSY science course, or instructor consent.  Enrollment Limit: 16  Lottery Preference(s): 1. Junior & Senior Biology and Neuroscience Majors, 2. Attributes: C: Physical and Natural Processes Natural Science 2898 001 1.0 Roshan Jain 2899 00A .0 Roshan Jain	Model organism ng: genetic man of neural active C 217/218 and a	ms will be nipulation, vity, behave a second 20	used to inv electrophy ioral assay O-level nat	estigate siological design,	0
BIOL	H304D Neurobiology of Aging This course will take an in-depth look at age-related changes in the central and non-neuronal contributors. The relationship of these nervous system chang highlighted.  Prerequisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above.  Enrollment Limit: 25  Attributes: C: Physical and Natural Processes Health Studies Natural Scie 2638 001 .5 Mary Ellen Kelly	nervous system es to age-rela	(CNS), focted cognitive	using on bo	th neuronal	
BIOL	H313D Structure and Function of Macromolecules A study of the structure and function of proteins, including enzymes, assembl with nucleic acids and membranes. Prerequisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, CHEM H concurrently, or instructor consent Attributes: Biochemistry and Molecular Biology Biophysics C: Physical and 2730 001 .5 Robert Fairman	221 or equivale	ent to be to		usly or	25
BIOL	H314E Biochemistry: Metabolic Basis of Disease  This course will introduce students to advanced biosynthetic processes associ and lipid metabolism. A coverage of the pathways and the experiments which de of their direct relevance to disease, abnormality and evolutionary adaptation Prerequisite(s): BIOL H200A and B or instructor consent  Attributes: C: Physical and Natural Processes Natural Science  2731 001 .5 Robert Fairman	fined them will	_		_	25

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Subject	Cat Nbr ClNbr Sctn Crd Instructor(s) Days Start End Room	Enrl
IOL	H329E Comparative Cell Biology of Invertebrates	
	Invertebrates comprise over 90% of all animal life, and are found in every ecosystem on Earth. To this extent, invertebrat	es
	exhibit a diverse array of adaptations to enable functioning in various habitats. In this upper-level biology course, we	
	will explore the cellular basis of these adaptations using a systems-level approach, with topics including immunity,	
	endocrinology, excretion, reproduction, cellular respiration, integument, and others.	
	Prerequisite(s): BIOL H200 and BIOL H201, grade 2.0 or above	
	Enrollment Limit: 25	
	Lottery Preference(s): Seniors and then Juniors, or by permission of instructor	
	Attributes: C: Physical and Natural Processes Natural Science	
	2604 001 .5 Jay Lunden T 7:30PM 9:55PM	23
BIOL	H335E Bioinformatics	
	This course will provide an introduction to the interdisciplinary field of Bioinformatics. Students will learn a variety	of
	approaches for the acquisition, organization, analysis and interpretation of biological data sets using computational tool	s.
	Pre-requisite(s): BIOL H200 and BIOL H201 with a grade of 2.0 or above, or instructor consent	
	Enrollment Limit: 25	
	Attributes: C: Physical and Natural Processes Natural Science	
	2889 001 .5 Geoffrey Hutinet T Th 10:00AM 11:25AM	0
BIOL	H380A Independent Study for Juniors	
	Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This	
	work may take the form of a guided series of readings with associated written work, or a supervised laboratory research	
	project with a final write-up and presentation.	
	Prerequisite(s): Instructor consent	
	Attributes: Natural Science	0
	Attributes: Natural Science 1268 001 1.0 TBA Department staff	0
	Attributes: Natural Science 1268 001 1.0 TBA Department staff 1794 002 1.0 TBA Department staff	0 0
BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff  1794 002 1.0 TBA Department staff  H380E Independent Study for Juniors	
BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff  1794 002 1.0 TBA Department staff  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	
BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff  1794 002 1.0 TBA Department staff  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	
BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff  1794 002 1.0 TBA Department staff  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.	
BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff  1794 002 1.0 TBA Department staff  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	
BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff  1794 002 1.0 TBA Department staff  H380E Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science	0
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BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff  1794 002 1.0 TBA Department staff  H380E Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science  1292 001 .5 TBA Department staff  H380F Independent Study for Juniors	0
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	Attributes: Natural Science  1268 001 1.0 TBA Department staff  1794 002 1.0 TBA Department staff  H380E Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science  1292 001 .5 TBA Department staff  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	0
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	Attributes: Natural Science  1268 001 1.0 TBA Department staff 1794 002 1.0 TBA Department staff  H380E Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science 1292 001 .5 TBA Department staff  H380F Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science	0
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BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff  1794 002 1.0 TBA Department staff  H380E Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science  1292 001 .5 TBA Department staff  H380F Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science  1289 001 .5 TBA Department staff  1797 002 .5 TBA Department staff	0
	Attributes: Natural Science  1268 001 1.0 TBA Department staff  1794 002 1.0 TBA Department staff  H380E Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science  1292 001 .5 TBA Department staff  H380F Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science  1289 001 .5 TBA Department staff  1797 002 .5 TBA Department staff  1797 002 .5 TBA Department staff  H400A Senior Research Tutorial at Off-Campus Research Labs	0
BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff  1794 002 1.0 TBA Department staff  H380E Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science  1292 001 .5 TBA Department staff  H380F Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science  1289 001 .5 TBA Department staff  1797 002 .5 TBA Department staff  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	0
BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff  1794 002 1.0 TBA Department staff  H380E Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science  1292 001 .5 TBA Department staff  H380F Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science  1289 001 .5 TBA Department staff  1797 002 .5 TBA Department staff  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	0
BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff 1794 002 1.0 TBA Department staff  H380E Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation. Prerequisite(s): Instructor consent Attributes: Natural Science 1292 001 .5 TBA Department staff  H380F Independent Study for Juniors Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation. Prerequisite(s): Instructor consent Attributes: Natural Science 1289 001 .5 TBA Department staff 1797 002 .5 TBA Department staff 1880 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.	0
BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff 1794 002 1.0 TBA Department staff  H380E Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science 1292 001 .5 TBA Department staff  H380F Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation.  Prerequisite(s): Instructor consent  Attributes: Natural Science 1289 001 .5 TBA Department staff 1797 002 .5 TBA Department staff 1797 002 .5 TBA Department staff  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.	0
BIOL	Attributes: Natural Science  1268 001 1.0 TBA Department staff 1794 002 1.0 TBA Department staff  H380E Independent Study for Juniors  Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation. Prerequisite(s): Instructor consent Attributes: Natural Science 1292 001 .5 TBA Department staff  H380F Independent Study for Juniors Students may receive credit for approved study and/or work in the laboratory under the supervision of a professor. This work may take the form of a guided series of readings with associated written work, or a supervised laboratory research project with a final write-up and presentation. Prerequisite(s): Instructor consent Attributes: Natural Science 1289 001 .5 TBA Department staff 1797 002 .5 TBA Department staff 1880 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.	0 0

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Attributes: Natural Science

skills will supplement lab work.
Prerequisite(s): Instructor consent.

in evolutionary biology. Exploration of the primary literature and various opportunities to hone scientific communication

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)		Days	Start	End	Room	Enrld
		1275	001	.5	Eric Miller						0
		2603	002	.5	Jessica Comstock						0
IOL	H405A	Senio	r Rese	arch 1	Cutorial In Marine Natural	Product Drug Discovery					
					rtant producers of substan						
					ry theories, cellular phys						
					s. Exploration of the prim	nary literature and variou	us opportunities	to hone s	cientific o	communication	
		will su									
	_	usite(s nent Lim		tructo	or consent						
		ıtes: Na		Scien	ce.						
	ALLIIDI	1260	001		Kristen Whalen						1
BIOL	H405F				Tutorial In Marine Natural	Product Drug Discovery					
3101					rtant producers of substan		of human disease	es Studen	ts will int	egrate	
					ry theories, cellular phys						
					s. Exploration of the prim						
	skills	will su	ppleme	nt lak	o work.	-	••				
	Prerequ	isite(s	): Ins	tructo	or consent						
		nent Lim									
	Attribu	ıtes: Na									
		1261	001		Kristen Whalen						0
BIOL	H406A				Cutorial in Developmental						
					xplore processes of embryo						
					ents design research proje						
		_		-	tics, genomics and cell im tion skills will supplemen		e primary literat	ture and v	arious oppo	ortunities to	
					or consent	it lab work.					
	_	nent Lim		CIUCC	or compene						
		ites: Na		Scien	ce						
		1276	001	1.0	Rachel Hoang						3
BIOL	H406F	Senio	r Rese	arch 1	Cutorial in Developmental	Biology and Evolution					
	In this	course	stude	nts ex	xplore processes of embryo	onic development and their	r evolutionary ur	nderpinnin	gs. Using p	orimarily	
					ents design research proje						
					tics, genomics and cell im		e primary literat	ture and v	arious oppo	ortunities to	
					tion skills will supplemen	nt lab work.					
	_	•	•	tructo	or consent						
		nent Lim <i>ites: Na</i>		Caion							
	ALLIIDI	1277	001		Rachel Hoang						0
BIOL	H407A				Tutorial in Bioarchitectur	•					- 0
2101					iving systems and applicat		Annroaches emplos	red includ	e genetic :	nalweie	
					molecular biology, micros				-	_	
					d various opportunities to						
	_	_			or consent						
	_	nent Lim	•								
	Attribu	ıtes: Na	tural	Scien	ce						
		1272	001	1.0	Karl A. Johnson						3
BIOL	H407F	Senio	r Rese	arch 1	<b>Sutorial in Bioarchitectur</b>	:e					
	Studies	of str	ucture	in 1	iving systems and applicat	ions in nanotechnology. A	Approaches employ	red includ	e genetic a	analysis.	

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.

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End Room	Enrl
	Prerequisite(s): Instructor consent				
	Enrollment Limit: 7				
	Attributes: Natural Science				
	1273 001 .5 Karl A. Johnson				2
BIOL	H409A Senior Research Tutorial in Molecular Neurobiology				
	In this course we will use the zebrafish model system to ask "how do genes control	behavior	?" at mult	iple 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 de	evelop new	methods to probe the	
	underlying control of decision-making, learning & memory, motor control, anxiety,		-		
	literature and various opportunities to hone scientific communication skills will	supplemen	t lab work	•	
	Prerequisite(s): Instructor consent				
	Enrollment Limit: 7				
	Attributes: Natural Science Neuroscience				
	1285 001 1.0 Roshan Jain				4
BIOL	H409F Senior Research Tutorial in Molecular Neurobiology		o <i>u</i>		
	In this course we will use the zebrafish model system to ask "how do genes control				
	levels of analysis: molecular genetics, imaging of neural circuit development and		_	3 1	
	approaches. Students will use established genetic tools and behavioral assays, as underlying control of decision-making, learning & memory, motor control, anxiety,		-	-	
	literature and various opportunities to hone scientific communication skills will		-		
	Prerequisite(s): Instructor consent	Juppiemen	c iab work	•	
	Enrollment Limit: 7				
	Attributes: Natural Science Neuroscience				
	1286 001 .5 Karl A. Johnson				0
BIOL	H417A Senior Research Tutorial in Molecular Genomics/Biochemistry				
	This course will focus on how RNA regulation mediated by RNA-binding proteins dict	ates and	responds t	o cellular physiology	
	at the molecular level. Students will approach this problem using a range of techn	-	_	4 .	
	genetics, systems biology, bioinformatics and mammalian tissue culture. Students w				
	dataset to develop new tools and cell-lines in order to uncover the molecular mech		_		3
	regulation to physiological events such as amino acid transport in skeletal muscle			· ·	
	students will explore the scientific literature and have opportunities to present	their sci	entific fi	ndings in both writter	1
	and oral format to hone their scientific communication skills.  Prerequisite(s): Instructor Consent				
	Enrollment Limit: 7				
	Attributes: C: Physical and Natural Processes Natural Science				
	1291 001 1.0 Amy Cooke				1
BIOL	H417F Senior Research Tutorial in Molecular Genomics/Biochemistry				
	This course will focus on how RNA regulation mediated by RNA-binding proteins dict	ates and	responds t	o cellular physiology	
	at the molecular level. Students will approach this problem using a range of techn	iques inc	luding bio	chemistry, molecular	
	genetics, systems biology, bioinformatics and mammalian tissue culture. Students w	ill use a	n establis	hed functional genomic	
	dataset to develop new tools and cell-lines in order to uncover the molecular mech	anisms of	RNA regul	ation and connect this	3
		cells. A	s a supple	ment to lab work,	
	regulation to physiological events such as amino acid transport in skeletal muscle				1
	regulation to physiological events such as amino acid transport in skeletal muscle students will explore the scientific literature and have opportunities to present	their sci	entific fi	ndings in both writter	1
	students will explore the scientific literature and have opportunities to present and oral format to hone their scientific communication skills.	their sci	entific fi	ndings in both writter	1
	students will explore the scientific literature and have opportunities to present and oral format to hone their scientific communication skills.  Prerequisite(s): Instructor Consent	their scie	entific fi	ndings in both writter	1
	students will explore the scientific literature and have opportunities to present and oral format to hone their scientific communication skills.  Prerequisite(s): Instructor Consent Enrollment Limit: 7	their scie	entific fi	ndings in both writter	
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Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	In this course we will use wild Mimulus flower species to explore how plants at Approaches include genetic mapping, plant transformation, gene expression analy pollinator behavior assays, mathematical modeling and 3D printing. Students will generalizable skills, like experiment design, data analysis, and basic molecular literature and various opportunities to hone scientific communication skills will pre-requisite(s): Instructor consent Lottery Preference: None (this is a senior capstone course for Biology Majors)	ysis, populat: ll have opport ar lab skills ill supplement	ion genetics tunities to . Exploratio	simulation learn many	1,	
	Enrollment Limit: 7  Attributes: C: Physical and Natural Processes Natural Science  1526 001 1.0 Foen Peng					3
IOL	H418F Senior Research Tutorial in Evolutionary Genetics					
	In this course we will use wild Mimulus flower species to explore how plants and Approaches include genetic mapping, plant transformation, gene expression analy pollinator behavior assays, mathematical modeling and 3D printing. Students will generalizable skills, like experiment design, data analysis, and basic molecular literature and various opportunities to hone scientific communication skills will pre-requisite(s): Instructor consent Lottery Preference: None (this is a senior capstone course for Biology Majors)	ysis, populat: ll have opport ar lab skills ill supplement	ion genetics tunities to . Exploratio	simulation learn many	1,	
	Enrollment Limit: 7  Attributes: C: Physical and Natural Processes Natural Science  1527 001 .5 Foen Peng					0
BIOL	H450D Advanced Topics in Biology A seminar course exploring the primary literature in a specialized area of cell current and historically important original papers as well as pertinent review provide the opportunity for students to demonstrate their ability to critically of their major discipline.	articles. Ora	al presentat rrent litera	ions and wr	ritten work	:
	Prerequisite(s): BIOL H300 and BIOL H301 with a grade of 2.0 or above, or instruction of the state of the sta	ructor consent	t			
	Enrollment Limit: 15 Lottery Preference(s): (1) Senior Haverford Biology majors ,(2) other seniors,			logy majors	3	
	Enrollment Limit: 15			logy majors 11:25AM	5	11
TOL	Enrollment Limit: 15 Lottery Preference(s): (1) Senior Haverford Biology majors, (2) other seniors, Attributes: Natural Science Scientific Computing 1579 001 .5 Eric Miller  H450E Advanced Topics in Biology A seminar course exploring the primary literature in a specialized area of cell current and historically important original papers as well as pertinent review provide the opportunity for students to demonstrate their ability to critically of their major discipline.  Prerequisite(s): BIOL H300 and BIOL H301 with a grade of 2.0 or above, or instructional serior of their major discipline.	(3) junior Ha  M W  1 and molecula articles. Ora y evaluate cur ructor consent	averford Bio 10:00AM ar biology. al presentat rrent litera	11:25AM  Students wi ions and wr ture in a s	ll read ritten work sub-field	
BIOL	Enrollment Limit: 15 Lottery Preference(s): (1) Senior Haverford Biology majors, (2) other seniors, Attributes: Natural Science Scientific Computing 1579 001 .5 Eric Miller  H450E Advanced Topics in Biology A seminar course exploring the primary literature in a specialized area of cell current and historically important original papers as well as pertinent review provide the opportunity for students to demonstrate their ability to critically of their major discipline.  Prerequisite(s): BIOL H300 and BIOL H301 with a grade of 2.0 or above, or instruction of the composition of t	(3) junior Ha  M W  1 and molecula articles. Ora y evaluate cur ructor consent	averford Bio 10:00AM ar biology. al presentat rrent litera	11:25AM  Students wi ions and wr ture in a s	ll read ritten work sub-field	
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BIOL	Enrollment Limit: 15 Lottery Preference(s): (1) Senior Haverford Biology majors, (2) other seniors, Attributes: Natural Science Scientific Computing 1579 001 .5 Eric Miller  H450E Advanced Topics in Biology A seminar course exploring the primary literature in a specialized area of cell current and historically important original papers as well as pertinent review provide the opportunity for students to demonstrate their ability to critically of their major discipline.  Prerequisite(s): BIOL H300 and BIOL H301 with a grade of 2.0 or above, or instruction for the senior of the senior o	(3) junior Ha  M W  1 and molecularticles. Ora y evaluate cur ructor consent (3) junior Ha  M W  M W  siting speake:	averford Bio  10:00AM  ar biology. al presentat rrent litera  t  averford Bio  10:00AM  1:00PM  rs; senior s	11:25AM  Students wi ions and wr ture in a s  logy majors  11:25AM 2:25PM  eminar meet	ll read ritten work sub-field	7

	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Structu	re and	bondin	g in m	olecules starting from nuclear and electronic structure o	of atoms.	This cours	e introduce:	s the	
				_	ng that rationalize and predict the structures and bulk p					
					trumental and computational methods used to study chemica	-				
	Three l	ectures	and or	ne lab	period per week required.			3		
	Attribu	tes: Bi	ochemi.	stry a	nd Molecular Biology C: Physical and Natural Processes	Natural	Science	Quantitati <sup>*</sup>	ve	
		2347	001	1.0	Alexander Norquist	M W F	8:30AM	9:25AM	ST0131	23
		1369	002	1.0	Alexander Norquist	M W F	9:30AM	10:25AM	ST0131	13
		1392	003	1.0	Robert C. Scarrow	M W F	9:30AM	10:25AM	HLS109	0
		2519	004	1.0	Robert C. Scarrow	M W F	11:30AM	12:25PM	HLS109	10
		1360	00A	. 0	Kelly Ginion Matz	T	1:00PM	3:55PM	ESTW305	18
		1361	00B	.0	-	W	1:00PM	3:55PM	ESTW305	9
		1362	00C	.0	Kelly Ginion Matz	Th	1:00PM	3:55PM	ESTW305	7
		1363	00D		Kelly Ginion Matz	F	1:00PM	3:55PM	ESTW305	12
	**1103				<del></del>	Е	1.00FM	J.JJFM	ESIWSOS	1.2
EM	H113A				<b>al Structure and Bonding</b> olecules starting from nuclear and electronic structure c	of atoms	This cours	o introduce	a tho	
				_	ng that rationalize and predict the structures and bulk p					
					trumental and computational methods used to study chemica	-				
					111 designed for students with little or no experience i			aring. IIII3 .	is a more	
			_		by the Chemistry Department.	ii ciiciiiio c	-1.			
	_				nd Molecular Biology C: Physical and Natural Processes	Natural	Science	Ouantitati:	ve	
	110 01 100	1367	001		Theresa D. Gaines	M T W	9:00AM	9:55AM	SHA113	5
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		1371	00C		-	Th	1:00FM 1:00PM	3:55PM	ESTW305	0
				.0	-					-
		1373	00D		Kelly Ginion Matz	F	1:00PM	3:55PM	ESTW305	0
				Logica	l Chemistry					
EM	H222A	_						+ <i>E</i> 1		
EM	Survey	of orga	nic che		y reactions in an aqueous environment, highlighting trans		-		_	
EM	Survey the pro	of orga perties	nic che and re	eactiv	ity of biomolecules in the cell, with emphasis on function		-		_	
ЕМ	Survey the pro energet	of orga perties ics, re	nic che and re action	eactiv mecha			-		_	
EM	Survey the pro- energet One lab	of orga perties ics, re per we	nic che and re action ek requ	eactiv mecha uired.	ity of biomolecules in the cell, with emphasis on functionisms, enzyme inhibitors and drug design.		-		_	
IEM	Survey the project one lab	of orga perties ics, re per we itation	nic che and re action ek requ per we	eactiv mecha uired. eek re	ity of biomolecules in the cell, with emphasis on functionisms, enzyme inhibitors and drug design. quired.	onal group	s, acids a	nd bases, cl	nirality,	
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IEM	Survey the property one lab One recurred have ta	of orga perties ics, re per we itation isite(s ken a t	nic che and re action ek requ per we ): CHEN wo seme	eactiv mecha uired. eek re M H111 ester	ity of biomolecules in the cell, with emphasis on functionisms, enzyme inhibitors and drug design.  quired. or CHEM H113 or CHEM H115; and CHEM 104 or CHEM H112 or General Chemistry course elsewhere (for instance, CHEM B1	onal group CHEM H114 103 and CH	s, acids a .  Alterna EM B104) m	nd bases, cl tively, studust, prior	nirality, dents who to the	
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	Cat Nbr ClNbr Sctn Crd Instructor(s) Days Start	End Room	Enrl
	One-half credit course for the year designed for students interested in the chemistry research experi	ence in physical	
	chemistry, condensed phase chemical physics, and biophysical chemistry, with emphasis on spectroscopi	c studies of peptides	
	and proteins. (Not open to seniors.)		
	Prerequisite(s): Instructor consent: interested students should discuss possible enrollment with the	instructor.	
	Attributes: C: Physical and Natural Processes Natural Science		
	1374 001 .5 Casey H Londergan		2
	2522 002 .5 Samuel Shepard		0
HEM	H262J Research Tutorial in Theoretical Chemistry		
	One-half credit course for the year designed for students interested in the chemistry research experi	ence in theoretical	
	physical chemistry, with emphasis on methods for prediction of optical, electronic, and mechanical pr	operties of	
	semiconductor nanostructures. (Not open to seniors.)		
	Prerequisite(s): Instructor consent		
	Attributes: C: Physical and Natural Processes Natural Science		
	1393 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 experi	ence in synthetic	
	organic chemistry and physical-organic chemistry. Topics include total synthesis of biologically sign	ificant molecules, new	
	methods of enantioselective synthesis, and the study of organic reaction mechanisms. (Not open to ser	iors.)	
	Prerequisite(s): Instructor consent		
	Attributes: C: Physical and Natural Processes Natural Science		
	1375 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 experi	ence in spectroscopic	
	and kinetic studies of metalloproteins and inorganic coordination compounds. (Not open to seniors.)		
	and kinetic studies of metallopioteins and inorganic coordination compounds. (Not open to seniors.)	This course is graded	
	universal P/F in which no numerical grade is assigned.	This course is graded	
	universal P/F in which no numerical grade is assigned.		
	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	d
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ıbject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl
HEM	H268J Research Tutorial in Environmental Chemistry					
	One-half credit course for the year designed for students interested in the chemi	strv resear	ch experier	nce in the	field of	
	biogeochemistry, a multidisciplinary approach focused at understanding the chemic	-	-			
	biosphere. (Not open to seniors.)					
	Prerequisite(s): Instructor consent					
	Attributes: C: Physical and Natural Processes Natural Science					
	1378 001 .5 Helen K. White					0
CHEM	H269J Research Tutorial in Materials Science					
	One-half credit course for the year designed for students interested in the chemi	stry resear	ch experier	nce in the	field of	
	biogeochemistry, a multidisciplinary approach focused at understanding the chemic	cal composit	ion and pro	cesses of	Earth's	
	biosphere. (Not open to seniors.)	_	_			
	Prerequisite(s): Instructor consent					
	Attributes: C: Physical and Natural Processes Natural Science					
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СНЕМ	H301A Lab in Chemical Structure and Reactivity					
	Two lectures and two laboratory periods. An introduction to the methods of resear	ch in chemi	stry. Inorg	ganic, orga	nic,	
	physical chemistry, computational chemistry, and biochemical concepts are integra	ated in a br	oad laborat	cory study	of	
	structure and its relationship to chemical reactivity. Physical methods are used					
	biochemical reactions. Chemical synthesis and the modern methods of computation a	and instrume	ntal analyt	cical chemi	stry are	
	particularly stressed.					
	Attributes: Biochemistry and Molecular Biology C: Physical and Natural Processe	es Natural	Science			
	1365 001 1.0 Frances R. Blase	T	11:30AM	12:25PM	HLS108	38
				2 55574	ESTW108	38
	1366 00A .0 Frances R. Blase	T Th	1:00PM	3:55PM	FOIMINO	38
CHEM	1366 00A .0 Frances R. Blase  H304A Statistical Thermodynamics and Kinetics	T Th	1:00PM	3:55PM	F21MIOO	38
СНЕМ						38
СНЕМ	H304A Statistical Thermodynamics and Kinetics A quantitative approach to the description and prediction of behavior in chemical introductory quantum mechanics and energy in molecules, statistical mechanics and	l systems. T d energy par	opics to be	e covered i thermodyna	nclude:	38
СНЕМ	H304A Statistical Thermodynamics and Kinetics A quantitative approach to the description and prediction of behavior in chemical introductory quantum mechanics and energy in molecules, statistical mechanics and molecules and larger systems, physical and chemical equilibrium, and chemical kin	l systems. T d energy par netics. Syst	opics to be titioning,	e covered i thermodyna erest range	nclude: mics of from	
СНЕМ	H304A Statistical Thermodynamics and Kinetics A quantitative approach to the description and prediction of behavior in chemical introductory quantum mechanics and energy in molecules, statistical mechanics and molecules and larger systems, physical and chemical equilibrium, and chemical kin single molecules to complicated condensed-phase macromolecular assemblies; specif	l systems. T d energy par netics. Syst Fic experime	opics to be titioning, ems of intental example	e covered i thermodyna erest range es of sing	nclude: mics of from le-molecule	
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	H304A Statistical Thermodynamics and Kinetics A quantitative approach to the description and prediction of behavior in chemical introductory quantum mechanics and energy in molecules, statistical mechanics and molecules and larger systems, physical and chemical equilibrium, and chemical kin single molecules to complicated condensed-phase macromolecular assemblies; specific observation, phase changes in lipids and liquid crystals, and observations of procentext of the course material.  Prerequisite(s): MATH H118 (or placement beyond MATH H118) and either CHEM H104 of Attributes: Biochemistry and Molecular Biology Biophysics C: Physical and Nata Quantitative  1364 001 1.0 Casey H Londergan  H310D Seminar in the Social Relevance of Chemistry  This seminar will explore, articulate, and discuss the influence that Chemistry a will develop awareness of the historical, political and cultural context of wester chemistry affects, and is affected by, the exclusion of people and ideas based on	l systems. To denergy parametics. Systems of the system of	Copics to be continued to be continued as a continu	e covered i thermodyna erest range es of sing discussed i 14 ral Science 9:55AM ch other. Pafic attentity, socio	nclude: mics of from le-molecule n the  UNMAC  articipants ion to how economic	48
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	H304A Statistical Thermodynamics and Kinetics A quantitative approach to the description and prediction of behavior in chemical introductory quantum mechanics and energy in molecules, statistical mechanics and molecules and larger systems, physical and chemical equilibrium, and chemical kin single molecules to complicated condensed-phase macromolecular assemblies; specif observation, phase changes in lipids and liquid crystals, and observations of procontext of the course material.  Prerequisite(s): MATH H118 (or placement beyond MATH H118) and either CHEM H104 of Attributes: Biochemistry and Molecular Biology Biophysics C: Physical and Nata Quantitative  1364 001 1.0 Casey H Londergan  H310D Seminar in the Social Relevance of Chemistry This seminar will explore, articulate, and discuss the influence that Chemistry a will develop awareness of the historical, political and cultural context of wester chemistry affects, and is affected by, the exclusion of people and ideas based on status, and other identities. Participants will connect these topics of study to careers.	l systems. To denergy parametics. Systems of the system of	Copics to be continued to be continued as a continu	e covered i thermodyna erest range es of sing discussed i 14 ral Science 9:55AM ch other. Pafic attentity, socio	nclude: mics of from le-molecule n the  UNMAC  articipants ion to how economic	48
	H304A Statistical Thermodynamics and Kinetics  A quantitative approach to the description and prediction of behavior in chemical introductory quantum mechanics and energy in molecules, statistical mechanics and molecules and larger systems, physical and chemical equilibrium, and chemical kin single molecules to complicated condensed-phase macromolecular assemblies; specif observation, phase changes in lipids and liquid crystals, and observations of procontext of the course material.  Prerequisite(s): MATH H118 (or placement beyond MATH H118) and either CHEM H104 of Attributes: Biochemistry and Molecular Biology Biophysics C: Physical and Nata Quantitative  1364 001 1.0 Casey H Londergan  H310D Seminar in the Social Relevance of Chemistry  This seminar will explore, articulate, and discuss the influence that Chemistry a will develop awareness of the historical, political and cultural context of weste chemistry affects, and is affected by, the exclusion of people and ideas based on status, and other identities. Participants will connect these topics of study to careers.  Pre-requisite(s): One semester of CHEM 225 or a declared Chemistry major	l systems. To denergy parametics. Systems of the system of	Copics to be continued to be continued as a continu	e covered i thermodyna erest range es of sing discussed i 14 ral Science 9:55AM ch other. Pafic attentity, socio	nclude: mics of from le-molecule n the  UNMAC  articipants ion to how economic	48
	H304A Statistical Thermodynamics and Kinetics A quantitative approach to the description and prediction of behavior in chemical introductory quantum mechanics and energy in molecules, statistical mechanics and molecules and larger systems, physical and chemical equilibrium, and chemical kin single molecules to complicated condensed-phase macromolecular assemblies; specif observation, phase changes in lipids and liquid crystals, and observations of procontext of the course material.  Prerequisite(s): MATH H118 (or placement beyond MATH H118) and either CHEM H104 on Attributes: Biochemistry and Molecular Biology Biophysics C: Physical and Nata Quantitative  1364 001 1.0 Casey H Londergan  H310D Seminar in the Social Relevance of Chemistry This seminar will explore, articulate, and discuss the influence that Chemistry a will develop awareness of the historical, political and cultural context of weste chemistry affects, and is affected by, the exclusion of people and ideas based on status, and other identities. Participants will connect these topics of study to careers.  Pre-requisite(s): One semester of CHEM 225 or a declared Chemistry major Lottery Preference: Declared Majors: Seniors, then Juniors	l systems. To denergy parametics. Systems of the system of	Copics to be continued to be continued as a continu	e covered i thermodyna erest range es of sing discussed i 14 ral Science 9:55AM ch other. Pafic attentity, socio	nclude: mics of from le-molecule n the  UNMAC  articipants ion to how economic	48
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	H304A Statistical Thermodynamics and Kinetics A quantitative approach to the description and prediction of behavior in chemical introductory quantum mechanics and energy in molecules, statistical mechanics and molecules and larger systems, physical and chemical equilibrium, and chemical kin single molecules to complicated condensed-phase macromolecular assemblies; specif observation, phase changes in lipids and liquid crystals, and observations of procontext of the course material.  Prerequisite(s): MATH H118 (or placement beyond MATH H118) and either CHEM H104 on Attributes: Biochemistry and Molecular Biology Biophysics C: Physical and Nata Quantitative  1364 001 1.0 Casey H Londergan  H310D Seminar in the Social Relevance of Chemistry This seminar will explore, articulate, and discuss the influence that Chemistry a will develop awareness of the historical, political and cultural context of weste chemistry affects, and is affected by, the exclusion of people and ideas based on status, and other identities. Participants will connect these topics of study to careers.  Pre-requisite(s): One semester of CHEM 225 or a declared Chemistry major Lottery Preference: Declared Majors: Seniors, then Juniors	l systems. To denergy parametics. Systems of the system of	Copics to be continued to be continued as a continu	e covered i thermodyna erest range es of sing discussed i 14 ral Science 9:55AM ch other. Pafic attentity, socio	nclude: mics of from le-molecule n the  UNMAC  articipants ion to how economic	48

Photochemistry, the study of the interaction of molecules with light, gives us insight into topics as diverse as photosynthesis, atmospheric ozone formation, semiconductor manufacturing, and even the mechanism by which you are currently perceiving the words on this page. This course will build off of concepts introduced in quantum chemistry to dive deeply into these fundamental light-matter interactions. We'll discuss core photophysical topics such as what determines why some

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s) Days Start End Room	Enrld
	molecules interact with visible light and what causes fluorescence, and photochemical concepts of chemical reactions from the excited state. The course will culminate with students presenting an independent project on a photochemical concept or application that interests them.	
	Prerequisite(s): CHEM H305 or co-requisite: CHEM B221	
	Attributes: C: Physical and Natural Processes Natural Science	
	1704 001 .5 TBA Department staff M W F 9:30AM 10:25AM	4
CHEM	H359D Topics in Inorganic Chemistry	
	The specific content of the course varies, depending on faculty and student interests. The course will focus on a specific topic within the realm of Inorganic Chemistry; example topics include electrochemical technology, organometallic catalysis, main group chemistry, and f-block elements. The Spring 2022 topic is organometallic catalysis, and the course will introduce fundamental concepts in organometallic chemistry including different types of organometallic reactions, catalyst development and applications in organic synthesis.  Prerequisite(s): CHEM 225 and CHEM 320	
	Attributes: C: Physical and Natural Processes Natural Science	
	2538 001 .5 TBA Department staff T Th 11:30AM 12:55PM	3
СНЕМ	H359E Topics in Inorganic Chemistry	
	The specific content of the course varies, depending on faculty and student interests. The course will focus on a specific topic within the realm of Inorganic Chemistry; example topics include electrochemical technology, organometallic catalysis, main group chemistry, and f-block elements. The Spring 2022 topic is organometallic catalysis, and the course will introduce fundamental concepts in organometallic chemistry including different types of organometallic reactions, catalyst development and applications in organic synthesis.  Prerequisite(s): CHEM 225 and CHEM 320	
	Attributes: C: Physical and Natural Processes Natural Science	
	2524 001 .5 TBA Department staff T Th 11:30AM 12:55PM	1
CHEM	H361A Senior Research Tutorial in Physical Chemistry	
	Directed research in physical chemistry, condensed phase chemical physics, and biophysical chemistry, with emphasis on spectroscopic studies of site-specific environmental and conformational dynamics in peptides and proteins.  Prerequisite(s): Instructor consent  Attributes: Natural Science	
	1381 001 1.0 Casey H Londergan	3
	2525 002 1.0 Samuel Shepard	1
СНЕМ	H362A Senior Research Tutorial in Theoretical Chemistry	
<b>0</b>	Directed research in computational and theoretical physical chemistry, with emphasis on development and application of methods for prediction of optical, electronic, and mechanical properties of organic and inorganic semiconductor nanostructures.	
	Prerequisite(s): Instructor consent	
	Attributes: Natural Science 1395 001 1.0 Clyde Daly	3
277774	4 4	3
CHEM	Directed research in synthetic organic chemistry, and physical-organic chemistry. Topics include total synthesis of biologically significant molecules, new methods of enantioselective synthesis and the study of organic reaction mechanisms. Prerequisite(s): Instructor consent	
	Attributes: Natural Science 1382 001 1.0 Theresa D. Gaines	5
СНЕМ	H365A Senior Research Tutorial in Bioinorganic Chemistry	J
Спем	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	

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instructor consent

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)				Days	Start	End	Room	Enrld
НЕМ	H367A	Senior	Resea	arch T	utorial in Biolog	ical Chemistry							
J					nd reactivity of	•	complexes; st.	ructural char	racteria	zation of	olatinum		
					by combined multi								
	_		_		r consent		,						
	Attribut												
		1384			Louise Charkoudi	ian							3
		1594	002		Leah Seebald								3
СНЕМ	H368A				utorial in Enviro	nmental Chemist	rv						
011211					onmental chemistr			iogeochemistr	rv. a mi	ıltidiscip	linary app	roach focused	I
					cal composition a	<b>-</b> ·		_	- 1 , a	aroraroorp	IIIIGIJ GPP		•
			-		r consent	ma processes or	Laren o broop.						
	Attribut												
	710011000	1385			Helen K. White								4
CHEM	н369а				utorial: Material	s Saienae							
CHEM					anic materials ch		include synthe	esis and stru	ıctural	character	ization of	organically	
	template			_		icmiscry. Topics	Include Synch	colo ana ocio	accurui	CHALACCCI	izacion oi	organicarry	
	_		-		r consent								
	Attribut												
	110 01 10 40	1386			Alexander Norqui	ist							4
СНЕМ	H380A				rch in Chemistry								-
СППП		-			r chemistry major	cs who want to n	ursue a non-exi	nerimental re	esearch	experience	e Student	s will work	
			_		ber on a topic in	-	-	•		-		o will work	
					and CHEM 304a	i did dall'ene di	CHICAI IICCIAC	are to prepar	LC a circ	coio papei	•		
	Attribut												
	ACCIIDUC	1539			TBA Department s	ctaff							1
CHEM	н391ј				ental Seminar								
CHEM			-	-		aanah taniaa in	+ b a	ooo of abomia	-+ b	fo]+	a+dan+a a.	ad au+aida	
					n of current rese								
	-		-		week throughout t	the year (one-na	ii course crea.	it). IIIIS COU	itse is	graded un	iversai r/.	E III WIIICII IIC	)
	numerica	_		_			:-1 (QIII	DM 11261 +- 01	IDM IIOC	·			
	Prerequi				t enrollment in a		ial course (CH	EM H361 TO CE		_		III 01 00	2.0
		1380	001		Casey H Londerga	<u>an</u>			F	2:30PM	3:55PM	HLS109	30
CHEM	H480A	_	endent	Study									
	Independ		-										
	Attribut												_
		1387			TBA Department s	staff							0
CHEM	H480F	-	endent	Study									
	Enrollme												
	Attribut												
		1368	001	.5	TBA Department s	staff							0
CHEM	H480J	Indepe	endent	Study									
		2531	001	.5	TBA Department s	staff							0
CMSC	H105A				omputer Science								
					ectual and softwa	are tools used t	o create and st	tudv algorith	nms: for	rmal and i	nformal pro	oblem	
					ving and algorith								
	-		-		clarity, complex	-	-	4 .		•	J	•	
		_	_	_	nd a one-hour wee	-	-	-	_	_	obociacca j	programming	
						ekiy iab. Labs w							

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Prerequisite(s): May not be taken by students who have taken any one of HC: CMSC 104, CMSC 107; BMC: CMSC 110, except by

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enrld
	Enrollm	ent Lim	nit: 32							
	Lottery	Prefer	ence(s	): 24	spaces reserved for incoming freshmen, then:					
	1) Soph									
				_	nting concentrators					
			unors,	Junio	or Scientific Computing concentrators, and Junior CS	concentrators				
	4) Othe		Dhuci	cal ar	nd Natural Processes Natural Science Quantitative	2				
	ACCIIDU	1199	001		Yuxin Zhou	M W	11:30AM	12:55PM	HLS204	17
		1528	002		Christopher Braun	M W	2:30PM	3:55PM	HLS204	15
		1196	00A	1.0	Suzanne Lindell	F	9:30AM	10:25AM	HLS110	7
		1197	00H	1.0		F	10:30AM	11:25AM	HLS110	11
		1198	00C	1.0		F	11:30AM	12:25PM	HLS110	10
		1542	00D	1.0		F	1:30PM	2:25PM	HLS110	1
		1543	00E		Suzanne Lindell	F	2:30PM	3:25PM	HLS110	3
CMSC	H106A				ata Structures		2.00111	0.20211	1120110	
01100					ndamental data structures of computer science: string	s, lists, stac	ks, queues,	trees, BS'	ľs, graphs,	
					ng algorithms. Principles of algorithmic analysis and			-		
	introdu	ced usi	.ng mat	hemati	cal techniques for the notions of both complexity an	nd correctness.	More pract	ical issue:	s, such as	
	_	_			ning, will also be covered. The programming language			-		
					support functional, imperative and object-oriented ap					
			ts con	nectio	on to iteration. Students must attend a one-hour week	dy lab. Labs w	ill be sect	loned by co	ourse	
	profess		.) • CMC	C 105	(or 110 or 113 at Bryn Mawr) or instructor consent;	marr not be tak	on his atudo	nta who has	ro takan	
					CMSC 107; BMC: CMSC 206, CMSC 151, except by instruct		en by scude	iics wild ha	/e caken	
	Enrollm				nice 107, Bio. Chice 200, Glice 101, except by inscribed	or compene				
					phomores then first-years, then Scientific Computing	concentrators,	then Compu	ter Science	e minors	
	and con	centrat	ors				_			
	Attribu		-		nd Natural Processes Natural Science Quantitative					
		2896	001		Christopher Braun	T Th	1:00PM	2:25PM	HLS204	1
		2894	00A		Christopher Braun	W	12:30PM	1:25PM	HLS110	0
-		2895	00B		Christopher Braun	Th	11:30AM	12:25PM	HLS110	1
CMSC	H107A				computer Science and Data Structures					
					of CMSC 105/106 for students with significant program				•	
				_	on techniques for reasoning about about software: me time permits. Includes lab work.	etnodical testi	ng, Iormal	verificatio	on, code	
					or instructor consent, or placement by CS faculty, ba	ased on CS place	ement test	If you are	2	
					ou should preregister for the CMSC 105 section at the					
					sday before classes start; may not be taken by studen					
	CMSC 10	6; BMC:	CMSC	206, 6	except by instructor consent					
	Enrollm									
	_		ences:	18 sp	paces reserved for incoming freshmen, then:					
	1) Soph			~						
				_	nting concentrators					
	<ol> <li>3) Juni</li> <li>4) Othe</li> </ol>		urnors,	Junio	or Scientific Computing concentrators, and Junior CS	concentrators				
	,		Physi	cal ar	nd Natural Processes Natural Science Quantitative	2				
	11001100	1194	001		David Wonnacott	M W	11:30AM	12:55PM	SHA113	18
		1192	00A		David Wonnacott	Th	1:00PM	1:55PM	HLS110	5
		1193	00B		Suzanne Lindell	Th	2:00PM	2:55PM	HLS110	5
										-

Subject	Cat Nbr ClNb	r Sctn	Crd	Instructor(s)			Days	Start	End	Room	Enrld
	1195	00C	1.0	Suzanne Lindell			Th	3:00PM	3:55PM	HLS110	8
CMSC	H231A Disc	rete Ma	themat	ics							
	An introduct:	ion to d	iscret	te mathematics with s	strong application:	s to computer scien	nce. Topics	s include se	et theory,	functions	
	and relation:	s, propo	sition	al logic, proof tech	hniques, difference	e equations, graphs	s, and tree	es.			
	Co-requisite	(s): CMS	C 105,	107, or B110 or B11	13 or instructor co	onsent					
	Enrollment L										
	Lottery Prefe	erence(s	): 8 s	spaces reserved for	incoming first-year	r students, then:					
	1) Junior CS	_									
	2) Sophomore:										
	3) Senior CS										
	4) Junior CS										
	5) Senior CS										
	6) Junior CS	concent	rators	5							
	7) Others										
		_		nd Natural Processes	Natural Science	Quantitative					
	1798			Yuxin Zhou			M W	10:00AM	11:25AM		16
	2685	00A	.0	Yuxin Zhou			F	10:00AM	11:25AM		16
CMSC	H251A Prin	ciples	of Com	puting Systems							
	What actually	y happen	s when	n you hit "run", afte	er writing your pro	ogram? This course	introduces	s the elemen	its of hard	ware and	
	language/0.S	. softwa	re tha	it execute a program,	, serving as a four	ndation for later w	work in the	ese areas, a	ınd providir	ng insights	S
	into computi	ng effic	iency	that may be importan	nt to a wide range	of programmers. In	ncludes wee	ekly lab exe	ercises, on	principles	S
	covered in le	ecture,	and de	tails from lecture a	and self-teaching	(according to reso	irce-use pi	rinciples pr	esented in	the	
						(according to resor	aroo ass pa	TINCIPICS PI	CDCIICCA III		
	course).				,	(according to resor	a100 a00 p.	rincipies pi	coeffect in		
	•	e(s): Bo		SC H106, H107, B151,			_				
	Pre-requisite		th CMS		or B206; and CMSC	231 (the latter as	s co-requis	site)			
	Pre-requisite Lottery Prefe reserved for	erence: frosh)	th CMS In fal In spr	SC H106, H107, B151,	or B206; and CMSC, Junior CS majors	231 (the latter as	s co-requis r Seniors,	site) other Junic	ors (with 4	seats	
	Pre-requisite Lottery Prefereserved for Enrollment La	erence: frosh) imit: 25	th CMS In fal In spr	CC H106, H107, B151, l: Senior CS majors, ring: Senior CS major	or B206; and CMSC , Junior CS majors rs, Frosh and Sopho	231 (the latter as, Sophomores, other omores, Junior CS r	s co-requis r Seniors,	site) other Junic	ors (with 4	seats	
	Pre-requisite Lottery Prefereserved for Enrollment La	erence: frosh) imit: 25	th CMS In fal In spr	SC H106, H107, B151, l: Senior CS majors,	or B206; and CMSC , Junior CS majors rs, Frosh and Sopho	231 (the latter as, Sophomores, other omores, Junior CS r	s co-requis r Seniors,	site) other Junic	ors (with 4	seats	
	Pre-requisite Lottery Prefereserved for Enrollment La	erence: frosh) imit: 25 C: Physi	th CMS In fal In spr	CC H106, H107, B151, l: Senior CS majors, ring: Senior CS major	or B206; and CMSC , Junior CS majors rs, Frosh and Sopho	231 (the latter as, Sophomores, other omores, Junior CS r	s co-requis r Seniors,	site) other Junic	ors (with 4	seats	7
	Pre-requisite Lottery Prefereserved for Enrollment Lattributes:	erence: frosh) imit: 25 C: Physi 0 001	th CMS In fal In spr cal an	CC H106, H107, B151, l: Senior CS majors, ring: Senior CS major and Natural Processes	or B206; and CMSC , Junior CS majors rs, Frosh and Sopho	231 (the latter as, Sophomores, other omores, Junior CS r	s co-requis r Seniors, majors, oth	site) other Junic ner Seniors,	ors (with 4 other Jun:	seats iors	7 7
	Pre-requisite Lottery Prefereserved for Enrollment Lattributes:	erence: frosh) imit: 25 C: Physi 0 001 00A	th CMS In fal In spr cal an .0 1.0	CC H106, H107, B151, l: Senior CS majors, ring: Senior CS major and Natural Processes John P. Dougherty	or B206; and CMSC , Junior CS majors rs, Frosh and Sopho	231 (the latter as, Sophomores, other omores, Junior CS r	s co-requis r Seniors, majors, oth	site) other Junioner Seniors,	ors (with 4 other Jun:	seats iors SHA113	
:MSC	Pre-requisite Lottery Preference for Enrollment Lattributes: 1619 1618	erence: frosh) imit: 25 C: Physi 0 001 000A 000B	th CMS In fal In spr cal an .0 1.0	CC H106, H107, B151, .1: Senior CS majors, ring: Senior CS major and Natural Processes John P. Dougherty John P. Dougherty John P. Dougherty	or B206; and CMSC , Junior CS majors rs, Frosh and Sopho	231 (the latter as, Sophomores, other omores, Junior CS r	s co-requis r Seniors, majors, oth T Th	other Junioner Seniors,  11:30AM 1:30PM	ors (with 4 other Jun: 12:55PM 2:25PM	seats iors SHA113 HLS110	7
CMSC	Pre-requisite Lottery Preference for Enrollment Land Attributes:  1619 1618 H257A Prog	frosh) imit: 25 C: Physi 0 001 00A 00B	th CMS In fal In spr cal an .0 1.0 1.0	CC H106, H107, B151, 1: Senior CS majors, ring: Senior CS major and Natural Processes John P. Dougherty ages and Security	or B206; and CMSC , Junior CS majors rs, Frosh and Sopho Natural Science	231 (the latter as, Sophomores, other omores, Junior CS r	s co-requis r Seniors, majors, oth T Th W	other Junioner Seniors,  11:30AM 1:30PM 2:30PM	ors (with 4 other Jun: 12:55PM 2:25PM 3:25PM	seats iors SHA113 HLS110 HLS110	7
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CMSC	Pre-requisite Lottery Preference for Enrollment Land Attributes:  1619 1618 H257A Program An introduct vital to second	frosh) imit: 25 C: Physi 0 001 0 00A 0 00B pramming ion to t urity.	th CMS In fal In spr  cal an     .0     1.0     1.0  Langue he rol	CC H106, H107, B151, cl: Senior CS majors, cing: Senior CS majors and Natural Processes John P. Dougherty John P. Dougherty John P. Dougherty John P. Dougherty ages and Security e programming langua	or B206; and CMSC, Junior CS majors, rs, Frosh and Sopho Natural Science	231 (the latter as, Sophomores, other omores, Junior CS r	s co-requis r Seniors, majors, oth T Th W	other Junioner Seniors,  11:30AM 1:30PM 2:30PM	ors (with 4 other Jun: 12:55PM 2:25PM 3:25PM	seats iors SHA113 HLS110 HLS110	7
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1209 001 .0 Sara Mathieson T Th 10:00AM 11:25AM HLS204 24
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Attributes: C: Physical and Natural Processes Natural Science

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)			Days	Start	End	Room	Enrlo
		1207	00A	1.0	Sara Mathieson			Т	1:00PM	1:55PM	HLS110	12
		1208	00H	1.0				T	2:00PM	2:55PM	HLS110	12
MSC	H3402								2.00111	2.00111	1120110	
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	Attribu		_			s Natural Science	Quantitative					
		1204	001		Steven Lindell			M W	10:00AM	11:25AM	SHA410	27
		1203	00A	1.0	Steven Lindell			F	10:00AM	11:25AM		27
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Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrlo
	2723 001 1.0 Shizhe Huang					2
OML	H142A Introduction to Visual Studies					
	An introduction to the trans-disciplinary field of Visual Studies, its methods of	analysis a	and topical	concerns. '	Traditional	-
	media and artifacts of art history and film theory, and also an examination of th			of all kind	s, their	
	systems of transmission, their points of consumption, and the very limits of visu	ality itsel	f.			
	Crosslisted: Visual Studies, Fine Arts, Comparative Literature					
	Enrollment Limit: 25					
	Lottery Preference(s):					
	1.) Senior Visual Studies minors					
	2.) Other declared Visual Studies minors					
	5 spaces reserved for incoming first years					
	Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies					_
	1507 001 1.0 John Hancock Muse	T Th	10:00AM	11:25AM	VCAM201	2
COML	H200A Introduction to Comparative Literature				_	
	A general introduction to the evolving field of comparative literature. Students					
	across a wide range of national literatures and historical periods, with attention					
	relate to each other and to where and why they must differ. An additional focus	on theoreti	.cal issues	relevant to	o reading	
	in general and, more particularly, reading between canons.					
	Attributes: A: Meaning, Interpretation (Texts) Humanities	m m1	0 20 DM	2 55714		_
	2590 001 1.0 David Sedley	T Th	2:30PM	3:55PM	HLL106	5
COML	H244A Our Americas: Imagining the Hemisphere					
	This course focuses on theorists of culture and society across the Americas, as w	_	_			
	twentieth-century literature, considering interventions from Caribbean, Latin Ame					
	novels, memoir, travel writing and poetry, we'll theorize the structures of hemis	-				
	line, slavery and the plantation, settler colonialism, labor and migration, trave	el and trans	sit, and war	r and imper	ıaıısm	
	create a shared hemispheric history?					
	Crosslisted: PEAC, COML					
	Pre-requisite(s): One course involving literary analysis. Enrollment Limit: 20.00					
		Human Diaht				
	Attributes. A. Massins Intermediation (Moute) Illumonities Desce Justice and		S			_
	Attributes: A: Meaning, Interpretation (Texts) Humanities Peace, Justice and	_		2 • 2 5 DM	TTNT 1 1 1	
	2630 001 1.0 Dennis Hogan	T Th	1:00PM	2:25PM	UN111	2
COML	2630 001 1.0 Dennis Hogan  H245A Performance, Literature and the Archive	T Th	1:00PM			
COML	2630 001 1.0 Dennis Hogan  H245A Performance, Literature and the Archive  The 'archive,' as both an institutional and performance practice and a theoretical	T Th	1:00PM	ne of the m	ost studied	
COML	2630 001 1.0 Dennis Hogan  H245A Performance, Literature and the Archive  The 'archive,' as both an institutional and performance practice and a theoretica sites in performance and literary studies. The hegemonic, patriarchal institution	T Th  al concept,  n of the arc	1:00PM has been or	ne of the mo	ost studied	
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COML	H245A Performance, Literature and the Archive  The 'archive,' as both an institutional and performance practice and a theoretical sites in performance and literary studies. The hegemonic, patriarchal institution perpetuates the canon and the master narratives of history while, marginalizing, the subcultural has been contested by the poststructuralist philosophers and critical structural struct	T Th  al concept,  n of the arc silencing, tical theori fields of po	1:00PM  has been or thive that of and erasing sts of the estcolonial cominant regions.	ne of the monostructs of the subalitate 20 the gender, corressive poor	ost studied and tern and and early ultural, wer	l
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COML	H245A Performance, Literature and the Archive  The 'archive,' as both an institutional and performance practice and a theoretical sites in performance and literary studies. The hegemonic, patriarchal institution perpetuates the canon and the master narratives of history while, marginalizing, the subcultural has been contested by the poststructuralist philosophers and critical structural structures and ideologies. This archive does not merely revisit the past to excave	T Th  al concept, n of the arc silencing, tical theori fields of po limited by d vate the era nimaginable,	1:00PM  has been or thive that of and erasing sts of the estcolonial dominant regulated transfer in the estcolonial of the estc	ne of the monostructs of the subalitate 20 the gender, corressive portions and since the corressive portion because and since the corresponding to the corre	ost studied and tern and and early ultural, wer lenced	l

In 2010, "the gastronomic meal of the French" was inscribed on the UNESCO Intangible Cultural Heritage of Humanity, with particular mention to "togetherness, the pleasure of taste, and the balance between human beings and the products of nature." In addition, UNESCO noted the importance in choosing the right dish or recipe, how products are procured, which flavors marry well, the art of the table setting, and the specific structure of the meal. Why is "food" so central to French culture? Culinary culture is constructed from a rich fabric of narratives that sustain its very practice. What are those stories and how are they shared? In this course, we will explore the discourse, indeed the language, that led to the

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	Cat Nbr	ClNbr Sctn Crd	Instructor(s)			Days	Start	End	Room	Enrlo
	_	nce of French cuising the doggie bags and the doggie bags and the doggie bags	ne and the rise of nymore.)	gastronomy in the	nineteenth centu	ry. (We will o	even conside	er why the	French	
	well as	s topics of contempo	on include literatu orary political and		us, film, televi	sion, sociolo	gical and h	istorical t	ext, as	
		lsted: COML.								
		quisite(s): First-ye	rear writing course Interpretation (Text	ts) Humanities						
	ACCIIDU		) Kathryne Adair Co			T Th	1:00PM	2:25PM	STO16	5
ML	H262A	European Film								
	overvie will co New Wav Balkans 1990s h Europea of the with an Crossli	ew, we will familiand over important Europe, New German Ciners. Towards the end of as affected film produced from the films. Furthermore recent European result extra session in Casted: Coparative Listed:	iterature, German	n a variety of impose such as German Ex In addition, we wil will discuss how the European Union a beaims to highlight course is taught i	rtant European f pressionist Film l be watching fi he accelerated i nd what aestheti transnational a n English with a	ilm movements, Italian Neo. lms from Polar ntegration of c, and politic spects of Euro n extra-session	after 1945 realism, Frond, the Netl the Europe cal ideas slopean film	. Our class ench New Wanerlands, a an Union si nape contemin particul	discussion ve, Czech nd the nce the porary ar in light	
	Attribu	3.	Interpretation (Text ) Imke Brust	ts) Gender and Se	xuality Studies	Humanities M W	11:30AM	12:55PM		3
ML	H312A	Adv Topics French	h Literature: L''Am	nérique' vue du mon	de francophone:	Entre				
	interro What ar publica authors Crossli	ogate representation to the ideas that unation of On Democraces of the 20th and 20th the contract of the 20th and COMPates: A: Meaning, In	Interpretation (Text	French-speaking au tradition of portra Tocqueville's famou drillard, Beauvoir,	thors: what are ying "America" i s study. Consequ Dalembert, Duha	the dominant : s an old and sently, we will mel, Godbout,	features of very rich on l limit our: Hergé, Lab	these depi ne, at leas selves most ro and Sart	ctions? t since the ly to	
	010-		Koffi Anyinefa			M	1:30PM	3:55PM		0
OML	and Sha in rela itself. of perf Prerequ Enrollm Lotter Sophomo	ange. Differing notation to evolving in Emphasis placed of Formance (e.g., activisite: 1 course in ment Limit: 15 Lotte	ern drama through clations of the dramat deas of character, on both thematic ar- ing, stagecraft, ar- English, Comparati ery sh Majors, Comp Lit	cic event, from cla consciousness, des nd structural probl nd audience respons ive Literature, or	ssical to modern tiny, social str ems of "play" an e). Theater Studies.	and "post-moducture, lingual don the rela	dern" theate istic power	ers, will b , and theat	e examined ricality	
		2326 001 1.0	Kimberly Benston			M W	1:00PM	2:25PM	LUT230	2
	H480A	Independent Study								
OML										
OML		1549 001 1.0								0

EALC

H297A

Social Protest in Modern China

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	translation as well as the use of primary and secondary sources to craft an acader class participation, reaction journals, two short papers, and a final paper or createstery Preference: Classics Majors & Minors Enrollment Limit: 25.00	_	_	will be b	ased on	
	Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World 2729 001 1.0 Robert S Santucci	Humanitie M W	es 1:00PM	2:25PM		25
CSTS	H460F Teaching Assistant					
	2534 001 .5 Bret Mulligan					0
EALC	H200A Major Seminar: Approaches to the Study of East Asian Cultures This course is a writing intensive course for EALC majors and minors to some found East Asia. Beginning with close readings of primary source texts in translation, and culture of China, and its subsequent transmission and adaptation across the vacommonly referred to as "East Asia." Students will gain familiarity with methods a skills in the practice of close critical analysis, bibliography, and the formulate 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 focuse of Chinese thought and systems in Japan, and the Spring term on the elaboration of Prerequisite: One year of Chinese or Japanese.  Attributes: B: Analysis of the Social World Humanities Social Science 2591 001 1.0 Erin Schoneveld	students ar ast geograp in this int ion of a re es more on	e introduce hical and erdisciplis search top	ed to the cultural a nary field ic. Requir	philosophy rea that is and develop ed of EALC sformation	
EALC	H201A Introduction to Buddhism	VV	1:30FM	3:33FM	VCAMZUI	/
	Focusing on the East Asian Buddhist tradition, the course examines Buddhist philostraditions and as lived religion.  Crosslisted: East Asian Languages & Cultures, Religion  Enrollment Limit: 30  Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World  2657 001 1.0 Hank Glassman	Humanitie M W	-	Studies 2:25PM	GST101	27
EALC	H230A Postwar Japanese Cinema		1.00111	2,20111	001101	
-	This course provides an introduction to Japanese cinema from the immediate Postwa. Focusing on films by influential directors including Ozu Yasujiro, Kurosawa Akira consider how Japanese filmmakers use cinema to investigate issues of truth, beautito answer fundamental questions regarding life and death in Japan's Postwar period Crosslisted: East Asian Languages & Cultures, Visual Studies, Environmental Studie Enrollment Limit: 15  Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Interpretation (Texts) B: Analysis of the Social World 2593 001 1.0 Erin Schoneveld	, and Mizog y, identity d. es	uchi Kenji , and nati	among oth onhood in	ers we will	9
EALC	2593 001 1.0 Erin Schoneveld Film Screening	M	7:30PM	9:55PM	VCAM001	9
EALC	H231A Pre-modern Japanese Literature  This is a course introducing classical and medieval Japanese literature, and also background in either East Asian culture or in the study of literature is required translation. (Advanced Japanese language students are invited to speak with the in the works in the original or in translation into modern Japanese.) The course is a literature from the tenth century to the fifteenth. It will focus on well-known to Book, both written by women, and the ballad-form Tale of the Heike.  Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World 2592 001 1.0 Hank Glassman	; all works nstructor a a chronolog	will be rebout arrandical surveine Tale of	ead in Eng ging to re y of Japan	lish ad some of ese	15

bject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl
	Since 1949, Chinese state policies have engendered diverse modes of resistance, challenge assumptions about passivity under authoritarianism. This course reads			-		
	lens of social protest. Major events we will examine include: contestations of r			_	-	
	Cultural Revolution; the 1989 protests in Tiananmen Square; labor and rural resi					r
	Kong; and most recently, the "A4 Revolution."					,
	Crosslisted: EALC.					
	Enrollment Limit: 25.00					
	Attributes: B: Analysis of the Social World Social Science					
	2645 001 1.0 Ruodi Duan	T Th	11:30AM	12:55PM	HLL107	7
ON	H105A Introduction to Economics					
	An introduction to microeconomic and macroeconomic concepts and topics. Micro to	pics include	e opportunit	y cost, su	oply and	
	demand, consumer decision making, the theory of the firm, production costs, mark	et structure	es, market f	ailure, ef	ficiency,	
	and welfare. Macroeconomic topics include: measurement of national output, infla	tion and une	employment,	equilibriu	m output	
	determination, money and banking, interest rates, and fiscal and monetary policy					
	algebraic competency, students are strongly encouraged to take a college-level c	alculus cour	se either b	efore or co	oncurrently	?
	with this course.					
	Attributes: B: Analysis of the Social World Social Science					
	1328 001 1.0 Timothy Lambie-Hanson	W M	1:00PM	2:25PM	CHS104	10
	1329 002 1.0 David M. Owens	T Th	8:30AM	9:55AM		17
	1560 003 1.0 Alberto Arredondo-	T Th	2:30PM	3:55PM	CHS104	5
	Chavez					
CON	H201A Analytical Methods for Economics					
ON		the nature of	of economic	choices and	d	
CON	H201A Analytical Methods for Economics  The course explores several foundational models that shape our understanding of interactions. We develop mathematical tools that are commonly used in the study					
CON	The course explores several foundational models that shape our understanding of					
ON	The course explores several foundational models that shape our understanding of interactions. We develop mathematical tools that are commonly used in the study	of economics	s. This cour	rse is inte	nded for	
CON	The course explores several foundational models that shape our understanding of interactions. We develop mathematical tools that are commonly used in the study students planning to major or minor in economics.	of economics	s. This cour	rse is inte	nded for	
ON	The course explores several foundational models that shape our understanding of interactions. We develop mathematical tools that are commonly used in the study students planning to major or minor in economics.  Prerequisite(s): Math 105 or Math 118 at Haverford College (or a comparable cou	of economics	s. This cour	rse is inte	nded for	
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	The course explores several foundational models that shape our understanding of interactions. We develop mathematical tools that are commonly used in the study students planning to major or minor in economics.  Prerequisite(s): Math 105 or Math 118 at Haverford College (or a comparable cou placement into Math 121 or higher; ECON 104 or ECON 105 or ECON 106  Attributes: B: Analysis of the Social World C: Physical and Natural Processes 1344 001 1.0 David M. Owens	of economics rse in calcu  Quantitats  M W	s. This cour alus at anot ive Social 10:00AM	ese is inter ther college ! Science	nded for	20
	The course explores several foundational models that shape our understanding of interactions. We develop mathematical tools that are commonly used in the study students planning to major or minor in economics.  Prerequisite(s): Math 105 or Math 118 at Haverford College (or a comparable cou placement into Math 121 or higher; ECON 104 or ECON 105 or ECON 106  Attributes: B: Analysis of the Social World C: Physical and Natural Processes 1344 001 1.0 David M. Owens  H203A Statistical Methods in Economics	of economics rse in calcu  Quantitat:     M W  o lab hours.	s. This cour alus at anot ive Social 10:00AM	cher college Science 11:25AM	nded for e), or FDR220	20
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CON	The course explores several foundational models that shape our understanding of interactions. We develop mathematical tools that are commonly used in the study students planning to major or minor in economics.  Prerequisite(s): Math 105 or Math 118 at Haverford College (or a comparable cou placement into Math 121 or higher; ECON 104 or ECON 105 or ECON 106  Attributes: B: Analysis of the Social World C: Physical and Natural Processes 1344 001 1.0 David M. Owens  H203A Statistical Methods in Economics  Foundations of statistical inference and data analysis. Three class hours and tw Prerequisite(s): ECON 104, 105, or 106; Completion of Math 105 or Math 118 at Ha calculus at another college), or placement into Math 121 or higher.  Attributes: B: Analysis of the Social World Quantitative Social Science 1338 001 1.0 Richard J. Ball 1345 00A .0 Richard J. Ball  H236A Introduction to Behavioral Economics  This course explores how observations of human psychology has influenced our und decision-making. Students will reinforce and expand their understanding of class new models incorporating insights from the field of psychology. Course assignmen with real world data sets and academic writing.	of economics rse in calcu  Quantitats  M W  To lab hours. verford Coll  M W  T  erstanding coll ical economics	alus at anotive Social 10:00AM Lege (or a continue of economic comodels, a	Science 11:25AM comparable 2:25PM 9:55PM thinking and learn to	moded for  e), or  FDR220  course in  FDR220  FDR220  and b) work with	25 25
CON	The course explores several foundational models that shape our understanding of interactions. We develop mathematical tools that are commonly used in the study students planning to major or minor in economics.  Prerequisite(s): Math 105 or Math 118 at Haverford College (or a comparable couplacement into Math 121 or higher; ECON 104 or ECON 105 or ECON 106  Attributes: B: Analysis of the Social World C: Physical and Natural Processes 1344 001 1.0 David M. Owens  H203A Statistical Methods in Economics  Foundations of statistical inference and data analysis. Three class hours and twelver prequisite(s): ECON 104, 105, or 106; Completion of Math 105 or Math 118 at Haward Calculus at another college), or placement into Math 121 or higher.  Attributes: B: Analysis of the Social World Quantitative Social Science 1338 001 1.0 Richard J. Ball 1345 00A .0 Richard J. Ball  H236A Introduction to Behavioral Economics  This course explores how observations of human psychology has influenced our und decision-making. Students will reinforce and expand their understanding of class new models incorporating insights from the field of psychology. Course assignmen with real world data sets and academic writing.  Crosslisted: PSYC.	of economics rse in calcu  Quantitats  M W  To lab hours. verford Coll  M W  T  erstanding coll ical economics	alus at anotive Social 10:00AM Lege (or a continue of economic comodels, a	Science 11:25AM comparable 2:25PM 9:55PM thinking and learn to	moded for  e), or  FDR220  course in  FDR220  FDR220  and b) work with	25 25
CON	The course explores several foundational models that shape our understanding of interactions. We develop mathematical tools that are commonly used in the study students planning to major or minor in economics.  Prerequisite(s): Math 105 or Math 118 at Haverford College (or a comparable cou placement into Math 121 or higher; ECON 104 or ECON 105 or ECON 106  Attributes: B: Analysis of the Social World C: Physical and Natural Processes 1344 001 1.0 David M. Owens  H203A Statistical Methods in Economics  Foundations of statistical inference and data analysis. Three class hours and twell Prerequisite(s): ECON 104, 105, or 106; Completion of Math 105 or Math 118 at Hacalculus at another college), or placement into Math 121 or higher.  Attributes: B: Analysis of the Social World Quantitative Social Science 1338 001 1.0 Richard J. Ball 1345 00A .0 Richard J. Ball  H236A Introduction to Behavioral Economics  This course explores how observations of human psychology has influenced our und decision-making. Students will reinforce and expand their understanding of class new models incorporating insights from the field of psychology. Course assignmen with real world data sets and academic writing.  Crosslisted: PSYC.  Pre-requisite(s): Economics 104 or 105, or equivalent	of economics rse in calcu  Quantitats  M W  To lab hours. verford Coll  M W  T  erstanding coll ical economics	alus at anotive Social 10:00AM Lege (or a continue of economic comodels, a	Science 11:25AM comparable 2:25PM 9:55PM thinking and learn to	moded for  e), or  FDR220  course in  FDR220  FDR220  and b) work with	25 25
CON	The course explores several foundational models that shape our understanding of interactions. We develop mathematical tools that are commonly used in the study students planning to major or minor in economics.  Prerequisite(s): Math 105 or Math 118 at Haverford College (or a comparable couplacement into Math 121 or higher; ECON 104 or ECON 105 or ECON 106  Attributes: B: Analysis of the Social World C: Physical and Natural Processes 1344 001 1.0 David M. Owens  H203A Statistical Methods in Economics  Foundations of statistical inference and data analysis. Three class hours and twelverequisite(s): ECON 104, 105, or 106; Completion of Math 105 or Math 118 at Hacalculus at another college), or placement into Math 121 or higher.  Attributes: B: Analysis of the Social World Quantitative Social Science 1338 001 1.0 Richard J. Ball  1345 00A .0 Richard J. Ball  H236A Introduction to Behavioral Economics  This course explores how observations of human psychology has influenced our und decision-making. Students will reinforce and expand their understanding of class new models incorporating insights from the field of psychology. Course assignmen with real world data sets and academic writing.  Crosslisted: PSYC.  Pre-requisite(s): Economics 104 or 105, or equivalent Enrollment Limit: 25	of economics rse in calcu  Quantitats  M W  To lab hours. verford Coll  M W  T  erstanding coll ical economics	alus at anotive Social 10:00AM Lege (or a continue of economic comodels, a	Science 11:25AM comparable 2:25PM 9:55PM thinking and learn to	moded for  e), or  FDR220  course in  FDR220  FDR220  and b) work with	25 25
CON	The course explores several foundational models that shape our understanding of interactions. We develop mathematical tools that are commonly used in the study students planning to major or minor in economics.  Prerequisite(s): Math 105 or Math 118 at Haverford College (or a comparable cou placement into Math 121 or higher; ECON 104 or ECON 105 or ECON 106  Attributes: B: Analysis of the Social World C: Physical and Natural Processes 1344 001 1.0 David M. Owens  H203A Statistical Methods in Economics  Foundations of statistical inference and data analysis. Three class hours and twell Prerequisite(s): ECON 104, 105, or 106; Completion of Math 105 or Math 118 at Hacalculus at another college), or placement into Math 121 or higher.  Attributes: B: Analysis of the Social World Quantitative Social Science 1338 001 1.0 Richard J. Ball 1345 00A .0 Richard J. Ball  H236A Introduction to Behavioral Economics  This course explores how observations of human psychology has influenced our und decision-making. Students will reinforce and expand their understanding of class new models incorporating insights from the field of psychology. Course assignmen with real world data sets and academic writing.  Crosslisted: PSYC.  Pre-requisite(s): Economics 104 or 105, or equivalent	of economics rse in calcu  Quantitats  M W  To lab hours. verford Coll  M W  T  erstanding coll ical economics	alus at anotive Social 10:00AM Lege (or a continue of economic comodels, a	Science 11:25AM comparable 2:25PM 9:55PM thinking and learn to	moded for  e), or  FDR220  course in  FDR220  FDR220  and b) work with	25 25

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

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	components, but also to gain practical experience by assessing a particular set formal presentations of findings to an investment committee leading to a recomm foundation.	-	-		_	
	Crosslisted: Economics, Independent College Programs, PJHR Prerequisite(s): ECON 104 or 105 or 106 Enrollment Limit: 16					
	Attributes: B: Analysis of the Social World Peace, Justice and Human Rights World Peace, Justice and Human Rights Social Science	Social Scie	nce B: An	alysis of t	he Social	
	2431 001 1.0 Shannon B. Mudd 2431 001 1.0 Shannon B. Mudd	F M W	2:30PM 2:30PM	3:25PM 3:55PM	UN114 UN114	15 15
ECON	H300A Intermediate Microeconomic Analysis		2,00111	0.00111	011,111	
	Microeconomic theory has developed around the analysis of Adam Smith's "invisite we model the behavior of economic actors (consumers and firms) and their interactions us to investigate the conditions under which these markets work well, less tools and concepts used in other areas of economics are developed. Many of the (ECON 105/106) are studied more rigorously and in greater depth. New topics, su imperfect information, are introduced.  Prerequisite(s): ECON 201  Attributes: B: Analysis of the Social World Social Science 2890 001 1.0 Giridhar Parameswaran Asynchronous lecture	action in dif ss well, or no topics cover ach as behavi	ferent mark ot at all. ed in Intro or under ri	ets. These In the proc duction to sk, insuran	models ess, basic Economics ce, and	16
	2891 001A .0 Giridhar Parameswaran	T	1:00PM	2:25PM	STO102	16
	2892 00A .0 David Wonnacott	Th	2:00PM	2:55PM	STO4	12
	2893 00B .0 David Wonnacott	Th	3:00PM	3:55PM	STO4	4
	weighted least squares estimation, estimation of models with nonlinear forms, i estimation. Emphasis will be on application of econometric techniques to real e optimality of speed limit control, AIDS awareness and behavior modification, la productivity. Students will be expected to use data sets to evaluate policy iss presentation of findings in class.  Prerequisite(s): ECON 104, 105 or 106; MATH 118 (or equivalent of 2 semesters of 203 or SOCL 215 or PSYCH 200, or Bryn Mawr's ECON B253  Attributes: C: Physical and Natural Processes Social Science 1330 001 1.0 Timothy Lambie-Hanson	economic and abor market d	social poli iscriminati be require	cy issues s on, and wor d to make a	uch as the ker final	
ECON	H324A Advanced Econometrics					
	This course covers advanced topics in theoretical and applied econometrics. The econometrics with applications to macroeconomic and financial analysis. The sec Bayesian statistics. The course emphasizes the role of econometrics in causal in Prerequisite(s): ECON 304 or MATH 218 or MATH/STAT 286  Attributes: B: Analysis of the Social World C: Physical and Natural Processes 2449 001 1.0 Giridhar Parameswaran	cond half foc inference and	uses on str forecastin	uctural est		d 18
ECON	H378A Junior Research Seminar: Sports as an Economics Laboratory					
	A research seminar analyzing contemporary journal articles which use sports dat industrial organization, labor economics, game theory, and behavioral economics Prerequisite(s): Econ 300 or Econ B200 at Bryn Mawr; Econ 304 (can be taken consemesters of college calculus), or instructor consent Enrollment Limit: 15  Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World	s. ncurrently);	Math 118 (o	r equivalen	t of 2	
	Social Science			0.6-		
	2830 001 1.0 Anne Preston	M W	1:00PM	2:25PM	d. 8/14/2023	0

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Subject	Cat Nbr ClNbr Sctn Crd Instructor(s) Days Start End Room	Enrl
CON	H384A Junior Research Seminar: Labor Economics	
	This seminar examines various aspects of labor markets, particularly focusing on empirical research. We will study critical	
	topics relevant to ongoing policy debates such as the minimum wage, discrimination, income inequality, immigration,	
	unemployment insurance, and more. We will also examine the growing role of technological change and how this can be expected	
	to affect labor markets in the future.	
	Pre-requisite(s): Econ 300, Econ 304-corequisite	
	Lottery Preference: Majors, Seniors and then juniors	
	Enrollment Limit: 15	
	Attributes: B: Analysis of the Social World C: Physical and Natural Processes Social Science	
	2778 001 1.0 Wei Oian M W 11:30AM 12:55PM	0
ECON	H396A Research Seminar	
ECON	Must be a senior Economics major.	
	Prerequisite(s): ECON 203 or 204 or MATH 203 or SOCL 215 or PSYC 200 or Bryn Mawr's ECON B253; ECON 300 or ECON B200 at Bryn	
	Mawr; ECON 302 or ECON B202 at Bryn Mawr; ECON 304 (can be taken concurrently); MATH 118 (or equivalent of 2 semesters of	
	college calculus Attributes: Social Science	
		2.0
		28
	2445 00A .0 Anne Preston	28
ECON	H396B Research Seminar	
	Must be a senior Economics major.	
	Prerequisite(s): ECON 304; an ECON 37X Jr. Research Seminar; ECON 396A.	
	Attributes: B: Analysis of the Social World Social Science	
	1681 001 1.0 Anne Preston	3
ECON	H480A Independent Study	
	1336 001 1.0	0
ECON	H480I Independent Study	
	1351 001 .5	0
		U
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	
	Attributes: B: Analysis of the Social World Child and Family Studies Social Science	
	1251 001 1.0 Alison Cook-Sather M 7:30PM 9:55PM ST0104	22
EDUC	H270A Measuring Education	
EDUC	This course explores contemporary political movements to measure learning outcomes in educational institutions. It covers	
EDUC	• • • • • • • • • • • • • • • • • • •	
EDUC	This course explores contemporary political movements to measure learning outcomes in educational institutions. It covers	
EDUC	This course explores contemporary political movements to measure learning outcomes in educational institutions. It covers such topics as NCLB legislation, standardized testing for college admissions, assessment of college education, and	
EDUC	This course explores contemporary political movements to measure learning outcomes in educational institutions. It covers such topics as NCLB legislation, standardized testing for college admissions, assessment of college education, and development of online learning tools.	
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EDUC	This course explores contemporary political movements to measure learning outcomes in educational institutions. It covers such topics as NCLB legislation, standardized testing for college admissions, assessment of college education, and development of online learning tools.  Crosslisted: Sociology, Education Enrollment Limit: 25	
EDUC	This course explores contemporary political movements to measure learning outcomes in educational institutions. It covers such topics as NCLB legislation, standardized testing for college admissions, assessment of college education, and development of online learning tools.  Crosslisted: Sociology, Education  Enrollment Limit: 25  Lottery Preferences: Haverford Sociology majors, Haverford Sociology minors, Education Studies majors, Education Studies minors.	
EDUC	This course explores contemporary political movements to measure learning outcomes in educational institutions. It covers such topics as NCLB legislation, standardized testing for college admissions, assessment of college education, and development of online learning tools.  Crosslisted: Sociology, Education  Enrollment Limit: 25  Lottery Preferences: Haverford Sociology majors, Haverford Sociology minors, Education Studies majors, Education Studies	13

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld			
	This course focuses on educational policies and practices related to language mino English learners' diverse experiences, educators' approaches to working with linguaddress their strengths and needs, links between schools and communities, and issurequired.	uistically	diverse st	udents, pro	grams that				
	Prerequisite(s): EDUC 200 or instructor consent Lottery Preference(s): 1. EDUC majors and Certification students; 2. EDUC minors; Attributes: B: Analysis of the Social World Child and Family Studies Peace, Ju	-			Science				
	1252 001 1.0 Kelly Gavin Zuckerman	M W	10:00AM	11:25AM		18			
EDUC	H308A Inquiries into Black Study, Language Justice, and Education Growing out of the Lagim Tehi Tuma/"Thinking Together" program (LTT), the course win realizing the significance of global Black liberation and Black Study/ies-particular suppression and sustenance of language diversity and with a focus, as well, on Pan particular community as a touchstone for learning from and forwarding culturally stourses, at least one in Education, with the second in Africana Studies, Linguistic permission of the instructor.	icularly ir n-Africanis sustaining	n relation of the relation of	to question ing with on Prerequisi	s of the e tes: Two				
		is Program F	Social S	cience 3:55PM		3			
ENGL	H113A Playing in the Dark: Freedom, Slavery & the Haunting of US Literature According to Toni Morrison, the relentless valorization of freedom in a nation bui African descent created a literature full of ghosts and other spectral presences. Gothic, and the supernatural structure U. S. narrative (mostly) fiction's engageme literature disorients our understanding of the "real" when that supposed real conc revenge, and subversion. Enrollment Limit: 20.00	This cours	se looks at ace and his	how horror tory, focus	, the ing on how				
	Attributes: A: Meaning, Interpretation (Texts) Africana Studies Humanities 2632 001 1.0 Gustavus T. Stadler	T Th	1:00PM	2:25PM	VCAM102	12			
ENGL	H115A Black Memoir and Mythography: an Introduction  This course is an introductory level course to the genres of autobiography and mem experiences. The course will familiarize students with myriad shapes of life writi concerns associated with representing the black self. This course will continuousl arriving at a more informed understanding of the alchemy of memory, time and narra Pre-requisite(s): First year writing seminar Enrollment Limit: 25  Lottery Preference: Sophomores, English majors, First year students, Africana concattributes: A: Meaning, Interpretation (Texts) Africana Studies Humanities 2317 001 1.0 Asali Solomon	ing as well ly questior ative conve	as the ae: n and explo	sthetic and	political	10			
ENGL	H201A Chaucer: Canterbury Tales Course devoted to close reading of Chaucer's Canterbury Tales; secondary readings include critical approaches and brief excerpts from other medieval sources. Attributes: Humanities Visual Studies								
	2339 001 1.0 Danielle Allor	M W	2:30PM	3:55PM		13			
ENGL	H238A Creative Writing: Nonfiction In this workshop-centered class, students will learn to generate and revise works form reporting, intellectual essays and reviews. Enrollment Limit: 15	-			oir, long-				
	Lottery Preference(s): All interested students should register and submit a 5-10pp asolomon@haverford.edu.	, prose wr	2 1						
	<u> </u>	F	1:30PM	3:55PM	WDS	13			

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)		Days	Start	End	Room	Enrld
	The 'archive,' as both an institutional and performance and literary studies. The heaperpetuates the canon and the master narratives of the subcultural has been contested by the poststr 21 st century. A new concept of the archive transand performance studies, one that is more utopiar structures and ideologies. This archive does not voices, but also, perhaps more importantly, opensativities. A: Meaning, Interpretation (Texts)	egemonic, patriarchal instituti of history while, marginalizing ructuralist philosophers and cr spired in the interdisciplinary n and more inclusive and is not merely revisit the past to exc s the potential for a formerly	on of the arc , silencing, itical theori fields of po limited by d avate the era	chive that of and erasing sts of the ostcolonial, dominant rep adicated tra	constructs  g the subal  late 20 th  gender, coressive pour  aces and si  b-be-imagin	and tern and and early ultural, wer lenced	14
NGL	H249A Introduction to Asian American Literatur		T	1:30PM	3:33PM		14
	This course will explore the diversity of Asian A works by Asian American writers. Assigned reading generational conflict, racism, assimilation, diff Asian American identity, culture, and aesthetic category "Asian American" constitute? Crosslisted: ENGL.  Pre-requisite(s): None	gs of various literary genres w ference, and political struggle look like? How do writers repre	rill address to the sent them? Wh	themes such of inquiry i nat does the	as immigra include: Wh	tion, at does	
	Attributes: A: Meaning, Interpretation (Texts)	B: Analysis of the Social Worl					15
							15
NGL	1533 001 1.0 Elizabeth Kim  H253A English Poetry from Tennyson to Eliot A study of Tennyson, Christina Rossetti, Browning	g, Hopkins, Hardy, Owen, and El	T Th	1:00PM  Memoriam"	2:25PM (1850) to	"Little	
	H253A English Poetry from Tennyson to Eliot A study of Tennyson, Christina Rossetti, Browning Gidding" (1942). Poetry will be approached via th Attributes: A: Meaning, Interpretation (Texts) 2342 001 1.0 C. Stephen Finley	he visual arts. Humanities	iot, from "In				12
:NGL	H253A English Poetry from Tennyson to Eliot A study of Tennyson, Christina Rossetti, Browning Gidding" (1942). Poetry will be approached via th Attributes: A: Meaning, Interpretation (Texts) 2342 001 1.0 C. Stephen Finley  H258A Desire and Domestic Fiction: The Development of the late 18th to the mid19th century, beginning with exemplary Middlemarch. These several novels propor or a structure of feeling, and we might question compel, to convince us of a certain understanding contemporary critical investments upon the act of critical and theoretical discourse: how narrative know of our experience; how narrative determines class, and other social and political determinant and the body's disruptions; how narratives negotic these variously constituted needs and desires be attributes: A: Meaning, Interpretation (Texts) 2343 001 1.0 Debora Sherman	he visual arts.  Humanities  opment of the Novel in the 19th e novel and to narrative theory Richardson's Pamela and culmin ose both an epistemology—what w their purpose: to amuse, to e g of the world. As well, the f reading itself or how reading e economies shape and determine a subject "self" and how these ts; how narratives manage the l iate the grotesque, the spectac come constructions of "textual Gender and Sexuality Studies	iot, from "In  T  c.  in a traject ating in Geor e know—as wel entertain, cer course will l is inflected the nature of selves are t ess obvious a cular, and the	7:30PM  cory loosely ge Eliot's las an affitainly, but ook at the lathrough did four experiment transection sublimate	9:55PM  y inscribed extraordin fective sen to educat purchase o ifferent mo rience or w cted by rac ted worlds	"Little  from the ary and sibility, e, to f dels of hat we can e, gender, of desire	-
	H253A English Poetry from Tennyson to Eliot A study of Tennyson, Christina Rossetti, Browning Gidding" (1942). Poetry will be approached via th Attributes: A: Meaning, Interpretation (Texts) 2342 001 1.0 C. Stephen Finley  H258A Desire and Domestic Fiction: The Develo This course is designed as an introduction to the late 18th to the mid19th century, beginning with exemplary Middlemarch. These several novels propor or a structure of feeling, and we might question compel, to convince us of a certain understanding contemporary critical investments upon the act of critical and theoretical discourse: how narrative know of our experience; how narrative determines class, and other social and political determinant and the body's disruptions; how narratives negotic these variously constituted needs and desires becattributes: A: Meaning, Interpretation (Texts)	he visual arts.  Humanities  opment of the Novel in the 19th e novel and to narrative theory Richardson's Pamela and culmin ose both an epistemology—what w their purpose: to amuse, to e g of the world. As well, the f reading itself or how reading e economies shape and determine a subject "self" and how these ts; how narratives manage the l iate the grotesque, the spectac come constructions of "textual Gender and Sexuality Studies	T  c. in a traject ating in George know—as well intertain, cer course will is inflected the nature of selves are the selves are the selves are the knowledge".  Humanities	7:30PM  Tory loosely age Eliot's las an affitainly, but look at the lathrough did four experiment transection and sublimate sensational	(1850) to  9:55PM  y inscribed extraordin fective sen to educat purchase o ifferent mo rience or w cted by rac ted worlds al; and fin	"Little  from the ary and sibility, e, to f dels of hat we can e, gender, of desire ally, how	12

The starting premise of this course is that the English language and its literary traditions hybridize into rich and strange forms when thrown into contact with regional cultures, myths, and aesthetic practices in the many parts of the world that were once British colonies. This course will trace the English literary tradition in South Asia beginning with responses to the colonial encounter, moving on to the role played by literature during decolonization, and ending with the ways poetry, novels, and plays engage the challenges of nationalism and, more recently, globalization. Writers we read will include Anita

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Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl
	Desai, Salman Rushdie, Rokeya Hossain, Michael Ondaatje, Lalithambika Antherj Amitav Ghosh.	anam, Nessim Ez	zekiel, Kami	la Shamsie	, and	
	Attributes: Humanities					
	2321 001 1.0 Alexander Millen	M W	10:00AM	11:25AM		7
ENGL	H291A Creative Writing: Poetry I					
	This is a creative writing workshop on poetry. Student work is the focus alon	g with the anal	Lysis of a w	vide variet	y of poems	3
	and poets. Weekly writing prompts will encourage students to widen their scop	e and develop t	their craft.	Each week	students	
	will write poems that respond to other poems and some of the principal genres	of poetry. Stu	udents will	be asked to	o respond	
	to the works of classmates. A final portfolio of revised poems (10 to 12 page	s) is required.	•			
	Enrollment Limit: 15					
	Attributes: A: Creative Expression Creative Writing Humanities					
	1413 001 1.0 Elizabeth Kim	F	11:00AM	1:25PM	WDS	15
ENGL	H293A Creative Writing: Fiction I					
	This course is an introduction to the techniques and strategies of fiction wr			hasis on t	he short	
	story. Weekly reading assignments will include both anthologized stories and	student-generat	ted ones.			
	Enrollment Limit: 15					
	Attributes: A: Creative Expression Humanities		1 2051	0.5551		1.0
	1418 001 1.0 Asali Solomon	M	1:30PM	3:55PM	WDS	19
ENGL	H298A Junior Seminar I					
	Junior seminar comprises of a two part sequence that, through class readings,		-			
	atudanta in a atudu of (1) a samina of touta manuscanting the manus and discou	sity of the high	storical tra	dition in l	British ar	ıd
	students in a study of (1) a series of texts representing the range and diver					
	American literature, and (2) critical theory and practice as it has been infl	uenced by herme	eneutics, fe	minism, ps		
	American literature, and (2) critical theory and practice as it has been infl semiology, sociology, and the study of cultural representation, and as it ref	uenced by herme	eneutics, fe	minism, ps		
	American literature, and (2) critical theory and practice as it has been infl	uenced by herme	eneutics, fe	minism, ps		
	American literature, and (2) critical theory and practice as it has been infl semiology, sociology, and the study of cultural representation, and as it ref Prerequisite(s): Only open to English majors Enrollment Limit: 15	uenced by herme	eneutics, fe	minism, ps		
	American literature, and (2) critical theory and practice as it has been infl semiology, sociology, and the study of cultural representation, and as it ref Prerequisite(s): Only open to English majors Enrollment Limit: 15 Attributes: Humanities	uenced by herme lects the metho	eneutics, fe ods of liter	minism, ps ary critic	ism.	
	American literature, and (2) critical theory and practice as it has been infl semiology, sociology, and the study of cultural representation, and as it ref Prerequisite(s): Only open to English majors Enrollment Limit: 15	uenced by herme	eneutics, fe	minism, ps		16
	American literature, and (2) critical theory and practice as it has been infl semiology, sociology, and the study of cultural representation, and as it ref Prerequisite(s): Only open to English majors Enrollment Limit: 15 Attributes: Humanities	uenced by herme lects the metho	eneutics, fe ods of liter	minism, ps ary critic	ism.	16 15
ENGL	American literature, and (2) critical theory and practice as it has been infl semiology, sociology, and the study of cultural representation, and as it ref Prerequisite(s): Only open to English majors Enrollment Limit: 15 Attributes: Humanities 1419 001 1.0 Kimberly Benston	uenced by herme lects the metho T Th	eneutics, fe ods of liter 10:00AM	minism, ps ary critic 11:25AM	ism.	
ENGL	American literature, and (2) critical theory and practice as it has been infl semiology, sociology, and the study of cultural representation, and as it ref Prerequisite(s): Only open to English majors Enrollment Limit: 15 Attributes: Humanities  1419 001 1.0 Kimberly Benston 2775 002 1.0 Lindsay V. Reckson	uenced by herme lects the method T Th T Th	eneutics, fe ods of liter 10:00AM 10:00AM	ary critic 11:25AM 11:25AM	ism. WDS	
ENGL	American literature, and (2) critical theory and practice as it has been infl semiology, sociology, and the study of cultural representation, and as it ref Prerequisite(s): Only open to English majors Enrollment Limit: 15 Attributes: Humanities  1419 001 1.0 Kimberly Benston 2775 002 1.0 Lindsay V. Reckson  H298J Junior Seminar I	T Th T Th discussion, ar	10:00AM 10:00AM	ary critic 11:25AM 11:25AM utorials,	WDS engage	15
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An investigation of Western drama through close study of major representative plays from Aeschylus and Sophocles to Beckett and Shange. Differing notions of the dramatic event, from classical to modern and "post-modern" theaters, will be examined Last Updated: 8/14/2023 11:08 AM Page 31 of 80

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl
	in relation to evolving ideas of character, consciousness, destiny, social s itself. Emphasis placed on both thematic and structural problems of "play" of performance (e.g., acting, stagecraft, and audience response).	and on the rela	-		_	
	Prerequisite: 1 course in English, Comparative Literature, or Theater Studie	S				
	Enrollment Limit: 15 Lottery					
	Lottery Preference English Majors, Comp Lit majors, Seniors, Juniors, Sophomores, First year students.					
	Attributes: Humanities					
	2325 001 1.0 Kimberly Benston	M W	1:00PM	2:25PM	LUT230	12
ENGL	H371A Sound Studies: Modernity and Synthesis					
	The 20th century marks a time of rapid transformation in Anglo-American idea					
	communication. Technologies that electronically store, transmit, and generat					
	shift in how and why we listen. In this course we will immerse ourselves in					
	shape our ongoing relationship with the auditory and each other. Students wi systems while investigating related topics in sound and critical listening.					
	and gain inspiration from some of the foremost thinkers on the subject of th					
	making is necessary, but students should be prepared to perform and show wor					
	Prerequisite(s): Two 200-level English courses or instructor consent					
	Enrollment Limit: 15					
	Attributes: A: Meaning, Interpretation (Texts) Humanities					
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NGL	2344 001 1.0 Matthew O'Hare  H376A Literature and Politics of South African Apartheid This course explores the history and historiography of South African aparthe	Th id from its inc	1:30PM eption in 1	3:55PM 948 to its	democratic	8
ENGL	H376A Literature and Politics of South African Apartheid This course explores the history and historiography of South African aparthe overthrow in 1994. We will consider the interplay between complex definition novels, plays, and poetry written during the apartheid years. We will also daesthetics of literary production in a time of political oppression. What we in a cultural space rife with racial and social tensions? Authors will incluses the Head, and Alex La Guma. Crosslisted with Africana Studies. Enrollment Limit: 15	id from its inc s of race, gend liscuss the tens uld it mean for de Nadine Gordi	eption in 1 er, nation ion between one to wri mer, Alan P	948 to its and differ an ethics te an apol: aton, J.M.O.	ence in and itical text	
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	H376A Literature and Politics of South African Apartheid This course explores the history and historiography of South African aparthe overthrow in 1994. We will consider the interplay between complex definition novels, plays, and poetry written during the apartheid years. We will also daesthetics of literary production in a time of political oppression. What we in a cultural space rife with racial and social tensions? Authors will incluses Head, and Alex La Guma. Crosslisted with Africana Studies. Enrollment Limit: 15 Lottery Preferences: 1. English majors, 2. Africana Studies concentrators, to Attributes: Africana Studies Humanities  2641 001 1.0 Laura McGrane  H399F Senior Conference Senior Thesis work with advisor. Prerequisite(s): Limited to senior English majors Attributes: Humanities	eid from its inc is of race, gend discuss the tens ould it mean for de Nadine Gordi	eption in 1 er, nation ion between one to wri mer, Alan P by class ye	948 to its and differe an ethics te an apoliation, J.M.O	ence in and itical text Coetzee,	8
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This course focuses on the ethics and practice of community collaboration and community based research in the context of environmental challenges. Students will gain grounding in both theory and practice incorporating themes related to race, class, gender and environmental justice. Students will complete 4-5 hours of fieldwork per week.

Prerequisite(s): ENVS 101 and at least one of ENVS 201, 202, 203 or instructor's permission.

Enrollment Limit: 15

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl
	Lottery Preference(s): Senior ENVS majors, then Junior ENVS Majors, then Sophomor	cas FNVS mi	nors awar	zone else		
	Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World				Program	
	Social Science	BIIVIIOIIIIE	iicai Scuui	ss IIaxis	s iiogiam	
	2649 001 1.0 Jonathan Wilson	T	1:30PM	3:55PM	ESTW309	15
NVS	H230A Postwar Japanese Cinema					
	This course provides an introduction to Japanese cinema from the immediate Postwa	ar period of	1945 to th	ne present	day.	
	Focusing on films by influential directors including Ozu Yasujiro, Kurosawa Akira	a, and Mizog	uchi Kenji	among othe	ers we will	
	consider how Japanese filmmakers use cinema to investigate issues of truth, beaut		, and nation	onhood in a	n attempt	
	to answer fundamental questions regarding life and death in Japan's Postwar perio					
	Crosslisted: East Asian Languages & Cultures, Visual Studies, Environmental Studi	Les				
	Enrollment Limit: 15					
	Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World	$ extit{ iny Humanitie}$	s Visual	Studies	A: Meaning,	
	Interpretation (Texts) B: Analysis of the Social World					
	2702 001 1.0 Erin Schoneveld	T Th	1:00PM	2:25PM	VCAM201	4
	2702 001 1.0 Erin Schoneveld Film Screening	W	7:30PM	9:55PM	VCAM001	4
ENVS	H307A Introduction to Fisheries Science					
	Fisheries science is the study of fish in the context of harvest. This course wil	ll provide a	n introduct	tion to som	ne of the	
	concepts and quantitative methods and skills involved in fisheries science.					
	Prerequisite(s): ENVS 101; and at least one of ENVS 201-204, or permission of the	e instructor	. Familiar:	ity and com	nfort with	
	general biology and algebra.					
	Enrollment Limit: 15					
	Lottery Preference(s): ENVS majors, then sophomores, then ENVS minors.					
	Attributes: C: Physical and Natural Processes Natural Science	_				_
	2699 001 1.0 Talia Young	T Th	10:00AM	11:25AM	STO104	7
INVS	H313A Fish & Community: A Local Praxis	_				
	Fish are animals that live in the ocean. But fish are also embedded in and create					
	harvest fish, and communities that prepare and eat fish. This course will explore		tool for co	ommunity-bu	ulding.	
	Prerequisite(s): ENVS 101 and least one of ENVS 201-204 or permission of instruct	cor.				
	Enrollment Limit: 15					
	Attributes: B: Analysis of the Social World Social Science	m ml-	11.20714	10. EEDM	000104	1.0
	2700 001 1.0 Talia Young	T Th	11:30AM	12:55PM	ST0104	12
ENVS	H315A Environmental & Social Data Analysis - Introduction to GIS				-1 '	
	Maps are a powerful way to visualize and gain a better understanding of our culture.					
	course explores the many ways of collecting, analyzing, and presenting spatial in					
	Systems. This is a skills-based methodology course that utilizes the powerful Arc	CGIS SOITWAR	e. Historio	cal and cur	rent issues	
	related to the data sets used in class will be discussed.					
	Pre-requisite(s): ENVS 101 and ENVS 201; or, ENVS 101 and permission of instructo					
	Lottery Preference: ENVS seniors, followed by ENVS juniors, followed by ENVS mind	ors.				
	Enrollment Limit: 15.00					
	Attributes: C: Physical and Natural Processes Natural Science 2724 001 1.0 David Hunt Backus	ա ար	10:00AM	11:25AM		11
		T Th	IU:UUAM	II:ZJAM		
ENVS	H328A Botany					
	This course is a multidisciplinary approach to the biology of plants through their	_			_	
	growth and their consequent effects on human society. Course topics include plant	22.	natomy, di	rersity, mo	rpnorogy,	
	physiology, and ecology, followed by case studies of plants, from cacao to apples	5.				

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

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl
	Attributes: C: Physical and Natural Processes Environmental Studies Natu	ıral Science				
	1676 001 1.0 Jonathan Wilson	M W	10:00AM	11:25AM	ESTW115	8
ENVS	H408A Senior Research Tutorial in Plant Biology and Evolution					
	Plants are an important interface between biology and the environment, and t	the study of plan	nts' evoluti	onary histo	ory	
	illuminates this interaction. This course will focus on the physiology and e	evolution of livi	ing and exti	nct plants		
	Techniques employed include anatomical studies of living and fossil plant ti		-		_	
	plant structure; and the collection and analysis of fossil plant material. E		ne primary l	iterature a	and various	
	opportunities to hone scientific communication skills will supplement lab wo	ork.				
	Prerequisite(s): Instructor consent					
	Enrollment Limit: 7					
	Attributes: Natural Science 2701 001 1.0 Jonathan Wilson					3
=====						3
ENVS	H480F Independent Study Attributes: Environmental Studies					
	1735 001 .5 Talia Young					0
FREN	H001A Elementary French					
FREN	The speaking and understanding of French are emphasized particularly during	the first semest	er The wor	k includes	regular	
	use of the Language Learning Center and is supplemented by intensive oral pr				_	
	(nine hours each week) and non-intensive (five hours each week) sections. The					
	and 002) are required for credit.	1	-5,			
	Enrollment Limit: 20					
	Attributes: A: Meaning, Interpretation (Texts) Humanities					
	1146 001 1.0 Kathryne Adair Corbin	M W F	8:30AM	9:25AM	STO16	18
FREN	H003A Intermediate French Non Intensive					
FREN	The emphasis on speaking and understanding French is continued, texts from F					
FREN	The emphasis on speaking and understanding French is continued, texts from F and short papers are written in French. Students use the Language Learning C	Center regularly	and attend	supplementa	ary oral	
FREN	The emphasis on speaking and understanding French is continued, texts from F and short papers are written in French. Students use the Language Learning C practice sessions. The course meets in non-intensive (three hours each week)	Center regularly sections which	and attend are supplem	supplementa ented by ar	ary oral n extra	
FREN	The emphasis on speaking and understanding French is continued, texts from F and short papers are written in French. Students use the Language Learning C practice sessions. The course meets in non-intensive (three hours each week) hour per week with an assistant. This is a year-long course; both semesters	Center regularly sections which	and attend are supplem	supplementa ented by ar	ary oral n extra	
FREN	The emphasis on speaking and understanding French is continued, texts from F and short papers are written in French. Students use the Language Learning C practice sessions. The course meets in non-intensive (three hours each week) hour per week with an assistant. This is a year-long course; both semesters Prerequisite(s): FREN 001 and 002, or French placement exam.	Center regularly sections which	and attend are supplem	supplementa ented by ar	ary oral n extra	
FREN	The emphasis on speaking and understanding French is continued, texts from F and short papers are written in French. Students use the Language Learning C practice sessions. The course meets in non-intensive (three hours each week) hour per week with an assistant. This is a year-long course; both semesters Prerequisite(s): FREN 001 and 002, or French placement exam. Attributes: A: Meaning, Interpretation (Texts) Humanities	Center regularly sections which (003 and 004) and	and attend are supplem se required	supplementa ented by an for credit	ary oral n extra	4
FREN	The emphasis on speaking and understanding French is continued, texts from F and short papers are written in French. Students use the Language Learning C practice sessions. The course meets in non-intensive (three hours each week) hour per week with an assistant. This is a year-long course; both semesters Prerequisite(s): FREN 001 and 002, or French placement exam.  Attributes: A: Meaning, Interpretation (Texts) Humanities  1147 001 1.0 Koffi Anyinefa	Center regularly sections which (003 and 004) and M W F	and attend are supplem re required 10:30AM	supplementa ented by an for credit 11:25AM	ary oral n extra	4
	The emphasis on speaking and understanding French is continued, texts from F and short papers are written in French. Students use the Language Learning C practice sessions. The course meets in non-intensive (three hours each week) hour per week with an assistant. This is a year-long course; both semesters Prerequisite(s): FREN 001 and 002, or French placement exam.  Attributes: A: Meaning, Interpretation (Texts) Humanities  1147 001 1.0 Koffi Anyinefa  1148 002 1.0 Christophe Corbin	Center regularly sections which (003 and 004) and	and attend are supplem se required	supplementa ented by an for credit	ary oral n extra	4
	The emphasis on speaking and understanding French is continued, texts from F and short papers are written in French. Students use the Language Learning C practice sessions. The course meets in non-intensive (three hours each week) hour per week with an assistant. This is a year-long course; both semesters Prerequisite(s): FREN 001 and 002, or French placement exam.  Attributes: A: Meaning, Interpretation (Texts) Humanities  1147 001 1.0 Koffi Anyinefa 1148 002 1.0 Christophe Corbin  H101A Perspectives sur la France contemporaine	Center regularly sections which (003 and 004) an M W F M W F	and attend are supplem re required 10:30AM 9:30AM	supplementa ented by an for credit 11:25AM 10:25AM	ary oral n extra STO207	
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	The emphasis on speaking and understanding French is continued, texts from F and short papers are written in French. Students use the Language Learning C practice sessions. The course meets in non-intensive (three hours each week) hour per week with an assistant. This is a year-long course; both semesters Prerequisite(s): FREN 001 and 002, or French placement exam.  Attributes: A: Meaning, Interpretation (Texts) Humanities  1147 001 1.0 Koffi Anyinefa  1148 002 1.0 Christophe Corbin  H101A Perspectives sur la France contemporaine  This course introduces French culture and cultural analysis through a series distinguishes France as a nation? How did it emerge before the Revolution of	Center regularly sections which (003 and 004) and M W F M W F s of flashpoints of 1789 and how h	and attend are supplemme required  10:30AM 9:30AM in France's as it evolv	supplementa ented by an for credit 11:25AM 10:25AM history.	ary oral nextra	
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FREN	The emphasis on speaking and understanding French is continued, texts from F and short papers are written in French. Students use the Language Learning C practice sessions. The course meets in non-intensive (three hours each week) hour per week with an assistant. This is a year-long course; both semesters Prerequisite(s): FREN 001 and 002, or French placement exam.  Attributes: A: Meaning, Interpretation (Texts) Humanities  1147 001 1.0 Koffi Anyinefa 1148 002 1.0 Christophe Corbin  H101A Perspectives sur la France contemporaine  This course introduces French culture and cultural analysis through a series distinguishes France as a nation? How did it emerge before the Revolution of questions have shaped and reshaped French and Francophone identities? Today colonial pasts and its place at the crossroads of several ideological and as accommodate antithetical perspectives? As we explore these issues, we will tools of analysis are often themselves "made in France," French culture will their means of interrogation. All the while, students will strengthen their through grammatical exercises, discussions, presentations, and essays. Prerequisite(s): FREN 004, or French placement exam	Center regularly sections which (003 and 004) and M W F M W F S of flashpoints of 1789 and how here, France has a cesthetic tradition learn to examine provide not only	and attend are supplemme required  10:30AM 9:30AM  in France's as it evolved in the supplement of the	supplementa ented by an for credit 11:25AM 10:25AM history. ed since? lation, due es French stically. In	STO207  What what e to its society Because the	1
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	The emphasis on speaking and understanding French is continued, texts from F and short papers are written in French. Students use the Language Learning C practice sessions. The course meets in non-intensive (three hours each week) hour per week with an assistant. This is a year-long course; both semesters Prerequisite(s): FREN 001 and 002, or French placement exam.  Attributes: A: Meaning, Interpretation (Texts) Humanities  1147 001 1.0 Koffi Anyinefa 1148 002 1.0 Christophe Corbin  H101A Perspectives sur la France contemporaine  This course introduces French culture and cultural analysis through a series distinguishes France as a nation? How did it emerge before the Revolution of questions have shaped and reshaped French and Francophone identities? Today colonial pasts and its place at the crossroads of several ideological and as accommodate antithetical perspectives? As we explore these issues, we will tools of analysis are often themselves "made in France," French culture will their means of interrogation. All the while, students will strengthen their through grammatical exercises, discussions, presentations, and essays. Prerequisite(s): FREN 004, or French placement exam Attributes: A: Meaning, Interpretation (Texts) Humanities	Center regularly sections which (003 and 004) and M W F M W F M W F M W F M W F M W F M W F M W M M M M	and attend are supplemme required  10:30AM 9:30AM  in France's as it evolved a them analy by objects of the banguage	supplementa ented by an for credit 11:25AM 10:25AM history. ed since? lation, due es French s tically. I of study but and express	what what eto its society Because the talso	1

What makes a culture "great"? A good place to explore this question is 17th-century France. It is often thought that during this century, French culture became great-hence the century's nickname, le grand siècle. In this course we will consider the hypothesis of French grandeur, but not to assess it as true or false. Rather, we will approach it as a notion that gets constructed, applied, and interrogated in the 1600s through a series of theatrical, political, architectural,

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	theological, and scientific œuvres. These works—mainly by Molière, Madame de La Descartes, Elisabeth de Bohême, and André Le Nôtre—differ radically in their ide Nevertheless, they are all regarded in France as "classics" in that they serve an education. The significance of this class, therefore, extends beyond the speculture in general and the values that it may (or may not) have today. We will as objects of individual passion and political appropriation, to the place of we reason, to the development of a centralized—i.e., modern—state (as represented its gardens), and to the establishment of the French colonial empire and its interpretation (Texts) Humanities	eas, forms, pain the classrecific period pay particulous men with resid, e.g., throfamous code r	perspective coom as essed it covers ar attention spect to ide to be ugh the parties. In Figure 1.	s, and effeential ingrato include on to theat eologies of lace of Verrench.	cts. edients of French rical play state and sailles an	s d
	2711 001 1.0 David Sedley	T Th	11:30AM	12:55PM	LUT211	7
FREN	H254A Matters of Taste: France and its Culinary Culture In 2010, "the gastronomic meal of the French" was inscribed on the UNESCO Intang particular mention to "togetherness, the pleasure of taste, and the balance betw nature." In addition, UNESCO noted the importance in choosing the right dish or flavors marry well, the art of the table setting, and the specific structure of culture? Culinary culture is constructed from a rich fabric of narratives that stories and how are they shared? In this course, we will explore the discourse, emergence of French cuisine and the rise of gastronomy in the nineteenth century don't like doggie bags anymore.) Materials for consideration include literature, cookbooks, menus, film, televisit well as topics of contemporary political and social debate. Crosslisted: COML. Pre-requisite(s): First-year writing course Attributes: A: Meaning, Interpretation (Texts) Humanities	ween human be recipe, how the meal. When sustain its windeed the ly. (We will e	eings and the products any is "food very praction anguage, the products anguage and the products anguage and the products anguage and the products anguage and the products anguage angu	he products re procured "so centrace. What ar hat led to er why the	of , which l to Frenc e those the French	h
	2659 001 1.0 Kathryne Adair Corbin	T Th	1:00PM	2:25PM	ST016	4
FREN	H312A Adv Topics French Literature: L''Amérique' vue du monde francophone: En admiration et mépris  Georges Duhamel, one of the authors on the program, called the United States of term is semantically loaded and connotes above all a certain exoticism, a differ interrogate representations of "America" by French-speaking authors: what are the What are the ideas that underpin them? The tradition of portraying "America" is publication of On Democracy in America, de Tocqueville's famous study. Consequer authors of the 20th and 21st centuries: Baudrillard, Beauvoir, Dalembert, Duhame Crosslisted: FREN and COML  Attributes: A: Meaning, Interpretation (Texts) Africana Studies Humanities	America "Out rence. In thine dominant for an old and wontly, we will el, Godbout,	Es course, Features of very rich of limit our Hergé, Lab	we will stu these depi ne, at leas selves most ro and Sart	dy and ctions? t since th ly to	
	1151 001 1.0 Koffi Anyinefa	М	1:30PM	3:55PM		5
GERM	H001A Elementary German  Meets five hours a week with the individual class instructor, one hour with stuccommunicative competence both in spoken and written German in a larger cultural semesters (001 and 002) are required for credit.  Enrollment Limit: 18  Attributes: A: Meaning, Interpretation (Texts) Humanities  1396 001 1.0 Michael Austin Burri					3
		Th F				
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

	Cat Nbr ClNbr Sctn Crd Instructor(s)		Days	Start	End	Room	Enrld
	Attributes: A: Meaning, Interpretation (Text	ts) Humanities					
	1397 001 1.0 Margaret Strair	inamani etes	M W F	11:30AM	12:25PM		4
RM	H201A Advanced Training: Language, Text,	and Context					
	This course is intended for students who wis	sh to refine their speaking, writing, a	and reading	skills bey	ond the Ir	ntermediate	
	level. Designed as a comprehensive introduct	tion to modern German culture, we will	discuss a	variety of	literary,	political,	
	historical and philosophical texts, includir	ng feature films and video materials. $ t V$	Weekly gram	mar reviews	will comp	olement	
	these activities.						
	Enrollment Limit: 18						
	Attributes: A: Meaning, Interpretation (Text	ts) B: Analysis of the Social World	Humanitie				
	1867 001 1.0 Imke Brust		M W	10:00AM	11:25AM		6
ERM	H262A European Film						
	This course will explore what role film play	· -	-				
	overview, we will familiarize ourselves with						L
	will cover important European film movements	<u>-</u>					
	New Wave, New German Cinema, and Dogma 95. I						
	Balkans. Towards the end of the semester we						
	1990s has affected film production within th						
	European films. Furthermore, this class also						
	of the recent European refugee crisis. This	course is taught in English with an ex	xtra-sessio	n in Germar	ı. (Taught	in English	
	with an extra session in German.)						
	Crosslisted: Coparative Literature, German						
	Attributes: A: Meaning, Interpretation (Text	ts) Gender and Sexuality Studies Hu	umanities				
	1868 001 1.0 Imke Brust		M W	11:30AM	12:55PM		9
REK	H002A Elementary Greek			_	_	_	
	Completion of the basics of ancient Greek, f	followed by readings in Lysias and Plat	to. This is	the second	l semester	of a year-	
	long course.						
	Attributes: A: Meaning, Interpretation (Text			11 0031	10 055		1.0
	1159 001 1.0 Matthew Cullen Fa		M W F	11:30AM	12:25PM		10
REK	H101A Introduction to Greek Literature: W						
GREK	This intermediate ancient Greek course offer	rs students a chance to develop their s		_	4 '	•	
GREK	This intermediate ancient Greek course offer philosophical prose. Students will continue	rs students a chance to develop their s to build grammar, vocabulary, and faci	ility with	different (	Greek diale	ects through	
FREK	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from authorized the continuation of the con	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare	ility with ch, Lucian,	different ( Palaephatı	Freek diale	ects through	
GREK	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from authorized will be thematically organized around the statement of	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare	ility with ch, Lucian,	different ( Palaephatı	Freek diale	ects through	
GREK	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized around cultural identity.	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutaro and the concepts of wonder, marvel, wor	ility with ch, Lucian,	different ( Palaephatı	Freek diale	ects through	
GREK	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutaro and the concepts of wonder, marvel, wor instructor consent	ility with ch, Lucian,	different ( Palaephatı	Freek diale	ects through	
REK	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or Attributes: A: Meaning, Interpretation (Text	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare and the concepts of wonder, marvel, wor instructor consent ts) Humanities	ility with ch, Lucian, rld-buildin	different ( Palaephatu g, travel,	Greek diale us, and oth ethnograph	ects through	ı
	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or Attributes: A: Meaning, Interpretation (Text 2535 001 1.0 Matthew Cullen Family Processing Courses of the Process of the P	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare and the concepts of wonder, marvel, wor instructor consent ts) Humanities armer	ility with ch, Lucian,	different ( Palaephatı	Freek diale	ects through	
	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or Attributes: A: Meaning, Interpretation (Text 2535 001 1.0 Matthew Cullen Family Control of Text 2535 Total Control of Text 2535	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare and the concepts of wonder, marvel, wor instructor consent ts) Humanities armer	ility with ch, Lucian, rld-building	different ( Palaephatu g, travel,  11:30AM	Greek diale as, and oth ethnograph 12:55PM	ects through ners. ny, and	ı
	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or Attributes: A: Meaning, Interpretation (Text 2535 001 1.0 Matthew Cullen Family Course introduces students to major decomposition of the students of the s	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare and the concepts of wonder, marvel, wor instructor consent ts) Humanities armer r Studies bates and issues within the interdiscip	ility with ch, Lucian, rld-building  T Th	different ( Palaephatu g, travel,  11:30AM  ld of Femin	Greek diale as, and oth ethnograph  12:55PM  hist and Ge	ects through ners. ny, and	ı
	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or Attributes: A: Meaning, Interpretation (Text 2535 001 1.0 Matthew Cullen Family Control of Text 2535 Total Control of Text 2535	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare and the concepts of wonder, marvel, wor instructor consent ts) Humanities armer r Studies bates and issues within the interdiscip	ility with ch, Lucian, rld-building  T Th	different ( Palaephatu g, travel,  11:30AM  ld of Femin	Greek diale as, and oth ethnograph  12:55PM  hist and Ge	ects through ners. ny, and	ı
	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or Attributes: A: Meaning, Interpretation (Text 2535 001 1.0 Matthew Cullen For this course introduces students to major dek Studies. We will explore what feminist scholl historic, present-day, and global contexts.	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare and the concepts of wonder, marvel, wor instructor consent ts) Humanities armer r Studies bates and issues within the interdiscip lars have illuminated about the constructors Students will examine feminist debates	T Th  plinary fieuction of garage about how	different ( Palaephatu g, travel,  11:30AM  Id of Femirender and serace, class	Greek diale is, and oth ethnograph  12:55PM  mist and Ge exuality is, and rel	ects through ners. ny, and ender In multiple	8
	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or Attributes: A: Meaning, Interpretation (Text 2535 001 1.0 Matthew Cullen For this course introduces students to major decisions. We will explore what feminist schol	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare and the concepts of wonder, marvel, wor instructor consent ts) Humanities armer r Studies bates and issues within the interdiscip lars have illuminated about the constructors Students will examine feminist debates	T Th  plinary fieuction of garage about how	different ( Palaephatu g, travel,  11:30AM  Id of Femirender and serace, class	Greek diale is, and oth ethnograph  12:55PM  mist and Ge exuality is, and rel	ects through ners. ny, and ender In multiple	8
	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or Attributes: A: Meaning, Interpretation (Text 2535 001 1.0 Matthew Cullen For this course introduces students to major dek Studies. We will explore what feminist scholl historic, present-day, and global contexts.	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare and the concepts of wonder, marvel, wor instructor consent ts) Humanities armer  r Studies bates and issues within the interdiscip lars have illuminated about the constructors will examine feminist debates students will develop the skills to analyse.	T Th  plinary fieuction of garage about how	different ( Palaephatu g, travel,  11:30AM  Id of Femirender and serace, class	Greek diale is, and oth ethnograph  12:55PM  mist and Ge exuality is, and rel	ects through ners. ny, and ender In multiple	8
	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or Attributes: A: Meaning, Interpretation (Text 2535 001 1.0 Matthew Cullen For this course introduces students to major dek Studies. We will explore what feminist scholl historic, present-day, and global contexts. gender and sexuality in unequal ways. And, so	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare and the concepts of wonder, marvel, wor instructor consent ts) Humanities armer  r Studies bates and issues within the interdiscip lars have illuminated about the constructors will examine feminist debates students will develop the skills to analyse.	T Th  plinary fieuction of garage about how	different ( Palaephatu g, travel,  11:30AM  Id of Femirender and serace, class	Greek diale is, and oth ethnograph  12:55PM  mist and Ge exuality is, and rel	ects through ners. ny, and ender In multiple	8
GREK	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or Attributes: A: Meaning, Interpretation (Text 2535 001 1.0 Matthew Cullen For this course introduces students to major dek Studies. We will explore what feminist scholl historic, present-day, and global contexts. gender and sexuality in unequal ways. And, seregulated, reinforced, and transgressed in contexts.	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare and the concepts of wonder, marvel, wor instructor consent ts) Humanities armer  r Studies bates and issues within the interdiscip lars have illuminated about the constructors will examine feminist debates students will develop the skills to anadiverse settings.	T Th  plinary fieuction of garage about how	different ( Palaephatu g, travel,  11:30AM  Id of Femirender and serace, class	Greek diale is, and oth ethnograph  12:55PM  mist and Ge exuality is, and rel	ects through ners. ny, and ender In multiple	8
	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or Attributes: A: Meaning, Interpretation (Text 2535 001 1.0 Matthew Cullen For this course introduces students to major dek Studies. We will explore what feminist scholl historic, present-day, and global contexts. gender and sexuality in unequal ways. And, so regulated, reinforced, and transgressed in contents and transgressed in the contents of	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare and the concepts of wonder, marvel, wor  instructor consent ts) Humanities armer  studies bates and issues within the interdiscip lars have illuminated about the constructors will examine feminist debates students will develop the skills to anadiverse settings.  s, then first years and sophomores.	Ility with the ch, Lucian, rld-building T Th the clinary fie action of g about how alyze how g	different ( Palaephatu g, travel,  11:30AM  Id of Femirender and serace, class	Greek diale as, and oth ethnograph  12:55PM  mist and General as and release, and release as and release as a sexuality in the sexuality in th	ects through ners. ny, and ender In multiple	8
	This intermediate ancient Greek course offer philosophical prose. Students will continue the reading of extensive passages from author Readings will be thematically organized arouncultural identity.  Prerequisite(s): GREK 002 or equivalent, or Attributes: A: Meaning, Interpretation (Text 2535 001 1.0 Matthew Cullen For This course introduces students to major dek Studies. We will explore what feminist scholl historic, present-day, and global contexts. gender and sexuality in unequal ways. And, segulated, reinforced, and transgressed in contents and the problem of the contents of the	rs students a chance to develop their s to build grammar, vocabulary, and faci ors including Herodotus, Plato, Plutare and the concepts of wonder, marvel, wor  instructor consent ts) Humanities armer  studies bates and issues within the interdiscip lars have illuminated about the constructors will examine feminist debates students will develop the skills to ana diverse settings.  s, then first years and sophomores. ts) B: Analysis of the Social World	Ility with the ch, Lucian, rld-building T Th the clinary fie action of g about how alyze how g	different ( Palaephatu g, travel,  11:30AM  Id of Femir ender and s race, clasender and s	Greek diale as, and oth ethnograph  12:55PM  mist and General as and release, and release as and release as a sexuality in the sexuality in th	ects through ners. ny, and ender In multiple Ligion shape nave been	8

Transgender (Trans) Studies is an interdisciplinary field that explores understandings of sex and gender through the discussion of lived trans experiences and theoretical tools to analyze gender, desire, embodiment, and identity. Students

	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	will learn to situate and assess assumptions about gender and sexuality, categoric	os of ident	ity and so	aial logat	ion This	
	course will raise questions about the social, political, cultural, legal, and his					
	diversity in the U.S. context.	COLICAL III	storic Suric	dilaing gen	idel	
	<u> -</u>					
	Enrollment Limit: 25.00					
	2	nities	11.20714	10. EEDM		1
	2913 001 1.0 Benae Beamon	T Th	11:30AM	12:55PM		1
SST	H262A Women and Philosophy in the Early Modern Era			1		
	Women played an important yet often neglected role in the development of early mod	_	-	-		
	barriers, they remained at the center of philosophical conversations by writing in			-	-	
	philosophical novels, plays, and poems, in addition to more standard philosophical	-				
	women's voices from 17th-19th century European philosophy. We will cover various	topics (mir	nd/body, edu	ıcation, ha	ppiness),	
	with a special focus on early modern feminism.					
	Pre-requisite(s): One 100-level course in Philosophy					
		umanities				
	2684 001 1.0 Charles Goldhaber	T Th	11:30AM	12:55PM	UN114	4
SST	H290A Interdisciplinary Perspectives on Gender					
	Explore the intersection of gender, sexuality, race, class, religion, and embodime	ent in our	time. Our f	focus is pr	rincipally	
	on the USA, though we make some forays into international conversations. Readings	are drawn	from a smat	tering of	the most	
	recent developments in academic research and theory, as well as from science fict:	ion, activ	ism, popular	culture,	and new	
	media. We work to bring the personal into the classroom, and to take what we learn	n out into	the world.			
	Enrollment Limit: 10					
	Lottery Preference(s): 1. Gen/Sex Concentrators 2. Juniors and Seniors					
	Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies Ho	umanities				
	2683 001 1.0 Regina K Velasco	М	1:30PM	3:55PM	UN111	9
IIST	H111A Ruin and Renewal: Europe to 1500					
	The fall-semester course is a survey of Western Civilization from the fall of Rome	e to the s:	ixteenth cer	ntury. It f	ocuses on	
	the institutional and intellectual dimensions of the western tradition, by closely			_		
	the institutional and interrectual dimensions of the western tradition, by croser			_		
	· · ·	_	ne first sem	nester) pic	ks up at	
	secondary accounts. The second semester of this course (which may be taken independent	ndent of th			-	
	secondary accounts. The second semester of this course (which may be taken independent the beginning of the sixteenth century and goes to the present. It explores the determinant of the sixteenth century and goes to the present.	ndent of th			-	
	secondary accounts. The second semester of this course (which may be taken independent the beginning of the sixteenth century and goes to the present. It explores the definitent Limit: 25	ndent of the evelopment	of the mode		-	
	secondary accounts. The second semester of this course (which may be taken independent the beginning of the sixteenth century and goes to the present. It explores the definite Enrollment Limit: 25  Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World	ndent of the evelopment  Social Socia	of the mode	ern Europea	in world.	13
Tem	secondary accounts. The second semester of this course (which may be taken independent the beginning of the sixteenth century and goes to the present. It explores the definite that the course of the sixteenth century and goes to the present. It explores the definite that the course of the social world account to the second world world account to the second world world account to the second world world world account to the second world w	ndent of the evelopment	of the mode		-	13
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IST	secondary accounts. The second semester of this course (which may be taken independent the beginning of the sixteenth century and goes to the present. It explores the defendance is the defendance in the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present. It explores the defendance is the sixteenth century and goes to the present and goes to the present and goes to the present and goes the sixteenth century and goes the	ndent of the evelopment  Social Sow F  ents that he	of the mode cience 11:30AM	ern Europea 12:55PM	HLL201	13
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	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl
	Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World	Social	Science			
	2428 001 1.0 Linda Gerstein	M W	1:00PM	2:25PM	HLL201	6
HIST	H240A History and Principles of Quakerism					
	The development of Quakerism and its relationship to other religious movements and	d to poli	tical and so	cial life.	especially	
	in America. The roots of the Society of Friends in 17th-century Britain, and the	-		•		
	World populations, particularly the Native American, Hispanic, east African, and A	-			- 3	
	Crosslisted: Religion, History	1 1				
	Enrollment Limit: 35					
	Attributes: B: Analysis of the Social World Social Science					
	2820 001 1.0 Emma Lapsansky	T Th	1:00PM	2:25PM	ST0205	0
HIST	H297A Social Protest in Modern China					
	Since 1949, Chinese state policies have engendered diverse modes of resistance, ar	nd today,	popular upr	isings cont	inue to	
	challenge assumptions about passivity under authoritarianism. This course reads co	ontempora	ry Chinese h	istory thro	ugh the	
	lens of social protest. Major events we will examine include: contestations of rul	le in the	early People	e's Republi	c; the	
	Cultural Revolution; the 1989 protests in Tiananmen Square; labor and rural resist	tance; th	e 2019-2020 d	demonstrati	ons in Hong	3
	Kong; and most recently, the "A4 Revolution."					
	Crosslisted: EALC.					
	Enrollment Limit: 25.00					
	Attributes: B: Analysis of the Social World Social Science	,	44 00	40 55		4.0
	2644 001 1.0 Ruodi Duan	T Th	11:30AM	12:55PM	HLL107	18
HIST	H299A Historical Methods Lab: Archive Theory and Practice					
	In recent decades, the historical concept of "the archive" has served as a corners			-		€
	humanities and social sciences. At a moment of dramatic transformation in archival	-	_	-		
		them th	is course in	troduces st	udents to	
	one that is fundamentally altering the nature of archives and our relationship to					
	the interdisciplinary theory and practice of the archive as method, material cultures					
	the interdisciplinary theory and practice of the archive as method, material culture Prerequisite(s): Sophomore standing or above					
	the interdisciplinary theory and practice of the archive as method, material culture Prerequisite(s): Sophomore standing or above Enrollment Limit: 25	ure, powe	r, and idea (	of the worl	d.	
	the interdisciplinary theory and practice of the archive as method, material culture Prerequisite(s): Sophomore standing or above Enrollment Limit: 25 Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World	ure, powe <i>Museum</i>	r, and idea o	of the worl	d.	8
at cm	the interdisciplinary theory and practice of the archive as method, material culture Prerequisite(s): Sophomore standing or above Enrollment Limit: 25 Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World 2429 001 1.0 Marlen Rosas	ure, powe <i>Museum</i> T Th	r, and idea (	of the worl	d.	8
ніѕт	the interdisciplinary theory and practice of the archive as method, material culture Prerequisite(s): Sophomore standing or above Enrollment Limit: 25 Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World 2429 001 1.0 Marlen Rosas  H314A Topics in Global Latin American History: Land and the Left in the American	Museum T Th	r, and idea of Studies Society 2:30PM	of the worl cial Scienc 3:55PM	d. ce	8
HIST	the interdisciplinary theory and practice of the archive as method, material culture Prerequisite(s): Sophomore standing or above Enrollment Limit: 25 Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World 2429 001 1.0 Marlen Rosas  H314A Topics in Global Latin American History: Land and the Left in the American This course traces the debates over land distribution and agrarian reform that have	Museum T Th  as ve been a	r, and idea of Studies Society 2:30PM	cial Science 3:55PM	d. ce	8
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HIST	the interdisciplinary theory and practice of the archive as method, material culture Prerequisite(s): Sophomore standing or above Enrollment Limit: 25  Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World 2429 001 1.0 Marlen Rosas  H314A Topics in Global Latin American History: Land and the Left in the American This course traces the debates over land distribution and agrarian reform that have political strife and Indigenous activism in the Americas. We will explore how Latis socialism and environmentalism as alternatives to capitalist extraction, as a strain-imperialist ideology. The course focuses on various case studies to address the agrarian societies, how states have implemented nationalist policies to redistribution approached land and community rights in ways that challenged the status quo. This participation in discussions. Students will also complete historical research paper the course themes.  Lottery Preference: History Majors; Latin American Studies concentrators; Seniors, Enrollment Limit: 12.00  Attributes: B: Analysis of the Social World Latin American, Iberian, and Latinx	Museum T Th  as  ve been a in Americ ategy to the meaniute land, class reers on a  /Juniors  Studies	studies Social Scial	cial Science 3:55PM  Ont of mode or have sup al vestiges ism in larg social mov student's ir choice,	ern eported , and as ar ely ements vocal	n
	the interdisciplinary theory and practice of the archive as method, material culture Prerequisite(s): Sophomore standing or above Enrollment Limit: 25  Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World 2429 001 1.0 Marlen Rosas  H314A Topics in Global Latin American History: Land and the Left in the American This course traces the debates over land distribution and agrarian reform that have political strife and Indigenous activism in the Americas. We will explore how Latis socialism and environmentalism as alternatives to capitalist extraction, as a strain-imperialist ideology. The course focuses on various case studies to address the agrarian societies, how states have implemented nationalist policies to redistribute approached land and community rights in ways that challenged the status quo. This participation in discussions. Students will also complete historical research paper the course themes.  Lottery Preference: History Majors; Latin American Studies concentrators; Seniors, Enrollment Limit: 12.00  Attributes: B: Analysis of the Social World Latin American, Iberian, and Latinx 2643 001 1.0 Marlen Rosas	Museum T Th  as  ve been a in Americ ategy to the meaniute land, class reers on a  /Juniors  Studies	r, and idea of Studies Social Scial Scial Scial Scial 1:30PM	cial Science 3:55PM  Ont of mode or have sup al vestiges ism in larg social mov student's ir choice,	ern eported , and as ar ely ements vocal	n
	the interdisciplinary theory and practice of the archive as method, material culture Prerequisite(s): Sophomore standing or above Enrollment Limit: 25  Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World 2429 001 1.0 Marlen Rosas  H314A Topics in Global Latin American History: Land and the Left in the American This course traces the debates over land distribution and agrarian reform that have political strife and Indigenous activism in the Americas. We will explore how Latis socialism and environmentalism as alternatives to capitalist extraction, as a strain-imperialist ideology. The course focuses on various case studies to address the agrarian societies, how states have implemented nationalist policies to redistribute approached land and community rights in ways that challenged the status quo. This participation in discussions. Students will also complete historical research paper the course themes.  Lottery Preference: History Majors; Latin American Studies concentrators; Seniors, Enrollment Limit: 12.00  Attributes: B: Analysis of the Social World Latin American, Iberian, and Latinx 2643 001 1.0 Marlen Rosas  H350A Topics in the History of Science: Madness	Museum T Th  as  ve been a in Americ ategy to the meani ute land, class re ers on a  /Juniors  Studies W	r, and idea of Studies Social Scial Scial Scial Scial 1:30PM	cial Science 3:55PM  Ont of mode or have sup al vestiges ism in larg social mov student's ir choice,	ern eported , and as ar ely ements vocal	n

memoir, Dostoevsky's novels, prison memoirs of Populist Terrorists, the Marxist underground and the SR terrorists 1900-1917, civil war resisters, resisters to Stalinism, the dissidents in the 1960s and 70s. Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World Social Science

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)		Start	End	Room	Enrld
		2703	001	1.0	Linda Gerstein	Th	1:30PM	3:55PM	HLL201	5
IST	submit t Students	400a th heir th will o	nesis o continu	emina: n the e on	r is the senior research lab for thesis last day of class, and work with their to History 400b in the spring where they f the thesis.	assigned faculty advisor	throughout	the semeste	r.	<b>:</b>
	Attribut									
	110011040	1258			Lisa Jane Graham	F	1:30PM	3:55PM	HLL201	9
		1259	002	1.0	Ruodi Duan	F	1:30PM	3:55PM	HLL106	3
		1589	003		Bethel A. Saler	F	1:30PM	3:55PM	HLL112	2
	environm				ublic health, and biomedical perspective of health; globalization of health issu					
	inequali Enrollme Lottery 1. Healt 2. Sopho 3. Junio 4. Senio	ental of ties, s ent Limi Prefere h Studi mores rs	determi social t: 25 ence(s) es min	nants justic : 15 : ors		nes; cultural representati right. s to others				14
LTH	inequali Enrollme Lottery 1. Healt 2. Sopho 3. Junic 4. Senic Attribut  H215A Global h the rela capitali Particip "healing Pre-requ Lottery Enrollme	rental of ties, so the study of	Analys  One ps bet cabolic debate al heal so: Intence: (a.t. 25. Analys	nants justic : 15 : ors  is of 1.0  nes: I ments ween : diso: s ove: th en ro to 1) Dec 00 eis of	of health; globalization of health issue, and the ethics of health as a human spaces to first-year students, 10 spaces the Social World Health Studies Social World Health Studies	right.  s to others  rial Science  T Th  simperialism and globalize and of disease; trade and class erected and erected and class erected and class erected and class erected	11:30AM cation since disease spre- dittlements about alte	12:55PM  antiquity. ad; industr and life ex rnative app	Explore ial pectancy.	14

This course will examine how Philadelphia and other American cities have responded to epidemic disease throughout history, and, in turn, how epidemic diseases have shaped urban space and urban life. As part of the Tri-Co Philly Program, the course will provide students with opportunities to engage with historical sites and institutions in Philadelphia on topics relating to epidemics such as yellow fever, influenza, HIV/AIDS, and COVID.

Prerequisite(s): Priority in registration will be given to students participating in the Tri-Co Philly Program and Health Studies minors. Remaining seats are available to other Tri-Co students, by lottery, if demand exceeds remaining spaces in the course. If you are interested in the program, you must fill out the application, which is due on Friday, March 31 by 11:59 pm (https://www.haverford.edu/philly-program). The program includes registering for two of three program's three courses: this course or Environmental Justice: Ethnography, Politics, Action/Philadelphia (ENVS 035/SOAN 035) or Public Art, Historical Preservation, and the Ethics of Commemoration (PHIL B234). Those not participating in the Philly program do not need to complete the application and can simply pre-register for a class.

Lottery Preference: (1) Tri-Co Philly Cohort, (2) Health Studies minors.

Enrollment Limit: 18.00

TriCo Philly students should expect to participate in program-related activities on Fridays, from 12:15 PM - 3:00 PM.

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	Attributes: B: Analysis of the Social World Health Studies Social Science					
	2650 001 1.0 Nicholas Bonneau	W	12:30PM	3:00PM	FRDCTR1	18
LTH	H232A Food, Health, & Justice					
	This class examines the complex connections between food, understandings of heal	•	_		-	
	sufficient, appealing, and healthy food is critical for human wellbeing, but wha		-			
	thrive are each significantly shaped by social, cultural, and historical context	t. This class	s takes an i	nterdiscip	olinary	
	approach to situate food and health in their social and cultural contexts.					
	Pre-requisite(s): HLTH 115 or instructor consent					
	Lottery Preference: 1) declared health studies minors, 2) sophomores					
	Enrollment Limit: 25.00					
	Attributes: B: Analysis of the Social World Health Studies Social Science	,	44 00	40 55		
	2916 001 1.0 Damien Droney	T Th	11:30AM	12:55PM		0
LTH	H265A Medical Anthropology					
	What does it mean to attempt a critical anthropology of the body, illness experi	•	24.		•	
	and the epistemology of contemporary biomedicine across a diverse group of cultu					
	begin to answer this and other questions by examining the historical development			_		
	exploring the theoretical and philosophical underpinnings of the debates that ha	_			-	
	methodological concerns and ethnographic investigations that have broadened the					
	classical ethnographic writings, philosophical treatises, anthropological theory	y, indigenous	s philosophe	rs, and fi	rst person	
	accounts of illness and health.					
	Enrollment Limit: 25					
	Lottery Preference(s): 1.) Health Studies minors 2.) Anthropology majors and min	nors				
	Attributes: B: Analysis of the Social World Health Studies Humanities					
	1717 001 1.0 Michael D'Arcy	T Th	1:00PM	2:25PM	UNMAC	4
LTH	H305A The Logic and Politics of Global Health					
	This course engages critically with changing intervention paradigms in global he	ealth from th	ne late colo	nial perio	d to the	
	present. Topics include colonial and missionary medicine; sanitation and segrega	ation; medica	alization of	reproduct	ion;	
	eradication campaigns; family planning; labor hierarchies; postcolonial technosc	cience: medic	cal research	•		
	eradication campaigns, ramily prainting, rabor interactines, postcoroniar technosc	oronioo, moure				
	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history	0101100, 1110010				
		0101100, modit				
	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history	oronoo, moure				
	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history OR permission of the instructor		or minors, A	fricana St	udies	
	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history OR permission of the instructor Enrollment Limit: 15		or minors, A	fricana St	udies	
	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history OR permission of the instructor Enrollment Limit: 15 Lottery Preference(s): Health Studies seniors, Health Studies juniors, Anthropol	logy majors d	•	fricana St	udies	
	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history OR permission of the instructor Enrollment Limit: 15 Lottery Preference(s): Health Studies seniors, Health Studies juniors, Anthropol concentrators.	logy majors d	•	fricana St 12:55PM	udies UN111	15
ILTH	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history OR permission of the instructor Enrollment Limit: 15 Lottery Preference(s): Health Studies seniors, Health Studies juniors, Anthropol concentrators.  Attributes: Africana Studies B: Analysis of the Social World Health Studies	logy majors o	ience			15
LTH	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history OR permission of the instructor Enrollment Limit: 15 Lottery Preference(s): Health Studies seniors, Health Studies juniors, Anthropol concentrators. Attributes: Africana Studies B: Analysis of the Social World Health Studies 2556 001 1.0 Anna M West	logy majors o Social Sc T Th	ience 11:30AM	12:55PM	UN111	15
LTH	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history OR permission of the instructor Enrollment Limit: 15 Lottery Preference(s): Health Studies seniors, Health Studies juniors, Anthropol concentrators.  Attributes: Africana Studies B: Analysis of the Social World Health Studies 2556 001 1.0 Anna M West  H318A Traditional Medicine: Histories and Ethnographies What is "traditional medicine" and why is it simultaneously revered, reviled and	logy majors of Social Sca T Th	ience 11:30AM	12:55PM traditiona	UN111	15
LTH	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history OR permission of the instructor Enrollment Limit: 15 Lottery Preference(s): Health Studies seniors, Health Studies juniors, Anthropol concentrators.  Attributes: Africana Studies B: Analysis of the Social World Health Studies 2556 001 1.0 Anna M West  H318A Traditional Medicine: Histories and Ethnographies What is "traditional medicine" and why is it simultaneously revered, reviled and relate to "antique" senses and sensibilities of an enchanted cosmos, seasonality	logy majors of Social Sci T Th d suppressed? y and steward	ience 11:30AM ? How does dship? How	12:55PM traditiona have peopl	UN111	15
LTH	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history OR permission of the instructor Enrollment Limit: 15 Lottery Preference(s): Health Studies seniors, Health Studies juniors, Anthropol concentrators.  Attributes: Africana Studies B: Analysis of the Social World Health Studies 2556 001 1.0 Anna M West  H318A Traditional Medicine: Histories and Ethnographies What is "traditional medicine" and why is it simultaneously revered, reviled and relate to "antique" senses and sensibilities of an enchanted cosmos, seasonality translated and transformed traditional medicine for a "modern" world? Does traditional medicine for a "modern" world? Does traditional medicine for a "modern" world?	Social Sci T Th d suppressed: y and steward	ience 11:30AM ? How does dship? How cine have r	12:55PM traditiona have peopl elevance f	UN111 al medicine e for the	15
LTH	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history OR permission of the instructor Enrollment Limit: 15 Lottery Preference(s): Health Studies seniors, Health Studies juniors, Anthropol concentrators.  Attributes: Africana Studies B: Analysis of the Social World Health Studies 2556 001 1.0 Anna M West  H318A Traditional Medicine: Histories and Ethnographies What is "traditional medicine" and why is it simultaneously revered, reviled and relate to "antique" senses and sensibilities of an enchanted cosmos, seasonality translated and transformed traditional medicine for a "modern" world? Does traditionate crisis and billionaires' efforts to conjure transhumanism? Readings income	Social Scial T Th  d suppressed: y and steward ditional mediclude TCM; Ka	ience 11:30AM ? How does dship? How cine have r	12:55PM traditiona have peopl elevance f	UN111 al medicine e for the	15
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ILTH .	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history OR permission of the instructor Enrollment Limit: 15 Lottery Preference(s): Health Studies seniors, Health Studies juniors, Anthropol concentrators.  Attributes: Africana Studies B: Analysis of the Social World Health Studies 2556 001 1.0 Anna M West  H318A Traditional Medicine: Histories and Ethnographies What is "traditional medicine" and why is it simultaneously revered, reviled and relate to "antique" senses and sensibilities of an enchanted cosmos, seasonality translated and transformed traditional medicine for a "modern" world? Does traditionate crisis and billionaires' efforts to conjure transhumanism? Readings incompany Unani-tibb; Homeopathy; Sufi, Saint and Goddess cults; Yoga; and Natur Pre-requisite(s): HLTH 115, or any course in History, Anthropology or Religion, Lottery Preference: (1) Declared Health Studies seniors; (2) Declared Health Studies Invironmental studies, or Religion majors; (4) Everyone else.	Social Scial Science Scial Science Science Scial Scial Scial Scial Scial Scial Scial Scien	ience 11:30AM  How does dship? How cine have r ampo; Talmud on of the in	12:55PM  traditiona have peopl elevance f ic Medicin structor	UN111 al medicine te for the	15
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LTH	Prerequisite(s): HLTH 115 OR at least one course in anthropology or history OR permission of the instructor Enrollment Limit: 15 Lottery Preference(s): Health Studies seniors, Health Studies juniors, Anthropol concentrators.  Attributes: Africana Studies B: Analysis of the Social World Health Studies 2556 001 1.0 Anna M West  H318A Traditional Medicine: Histories and Ethnographies What is "traditional medicine" and why is it simultaneously revered, reviled and relate to "antique" senses and sensibilities of an enchanted cosmos, seasonality translated and transformed traditional medicine for a "modern" world? Does traditionate crisis and billionaires' efforts to conjure transhumanism? Readings incompany Unani-tibb; Homeopathy; Sufi, Saint and Goddess cults; Yoga; and Natur Pre-requisite(s): HLTH 115, or any course in History, Anthropology or Religion, Lottery Preference: (1) Declared Health Studies seniors; (2) Declared Health Studies Invironmental studies, or Religion majors; (4) Everyone else.	Social Sci T Th d suppressed? y and steward ditional mediclude TCM; Ka re Cure. or permission	ience 11:30AM  How does dship? How cine have r ampo; Talmud on of the in	12:55PM  traditiona have peopl elevance f ic Medicin structor	UN111 al medicine te for the	15

Philosopher Michel Foucault described biopolitics as a kind of politics aimed at fostering life or disallowing it to the point of death. As such, this class considers "the politics of life itself." After reading key texts in biopolitical theory,

ubject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)			Days	Start	End	Room	Enrl
	we will	evamin	e works	e hu s	social scientists who	analuze instit	utions and forms of	avnartisa t	-hat taka li	fe as an o	hiest of	
				_	in a variety of poli	-		expercise	liat take II	ie as an c	DJect OI	
					or instructor conse		mic sectings.					
			,		clared health studies		iors					
	_	nent Lim			cialed mearth studies	, minors, 2) sen	1015					
					f the Social World	Health Studies	Social Science					
	710 01 100	2917	_		Damien Droney	nearth beaares	bociai beienee	F	11:30AM	1:55PM		0
LTH	н336а				ogy, Medicine, Power:	(De) colonial k	nowledge production		11.00111	1.00111		
	1155011				'	(De) COlonial R	nowreage production	•				
	This co	epistemological community This course traces the relationship between scientific knowledge production, notions of technological "progress," and										
					institutional power t							
					ide STS classics that							
					as work in anthropol							1
					eminist scholars.							-
		sted: H										
	Pre-rec	uisite(	s): Int	troduc	ctory level coursewor	k in anthropolo	gv (sociocultural or	medical) o	or health st	udies		
		-			opology, health studi	-	34 .	•				
	-	nent Lim			1 31,	, 1, 1						
	Attribu	ites: B:	Analy	sis o	f the Social World	Health Studies	Social Science					
		2718	_		Michael D'Arcy			W	1:30PM	3:55PM		3
LTH	H498A	Senio	r Thesi	s Sen	ninar: Supervised Res	earch and Writi	ng					
	Thesis				endent majors that ar							
		2557		_	Anna M West			T Th	1:00PM	2:25PM	UN114	4
CPR	H116A	Ethic	al Stru	agles	in Catastrophic Tim	es: Quakers' Re	sponses to the					
		Holoc		-	-	_	•					
	In the	1930s a	nd 1940	os, Qı	lakers engaged in a r	number of remark	able—and controversi	al-activit:	ies that wer	re intended	l to provide	)
					were being persecuted							
	that Qu	akers w	ere giv	ving ι	unwitting aid to the	Nazis) and also	derided by Nazis su	ich as Joser	ph Goebbels	(who thoug	ht that	
	Quakers	were d	emonst	rating	g a complete lack of	awareness about	how the world reall	y works.) 1	Nevertheless	s, Quakers'	actions	
	did end	l up sav	ing sor	me liv	ves. Students in this	course will ex	amine what Quakers a	accomplished	d—and failed	d to accomp	lish-in the	;
	1930s a	and 1940	s. The	cours	se is not designed as	a venue in whi	ch to decide, once a	and for all,	, which of t	he Quakers	' actions	
	were wi	se and	which w	were i	foolish. The course i	s meant, rather	, to offer students	an opportur	nity to refl	ect on the	ethical	
	questic	ns with	which	Quake	ers wrestled and an i	nvitation to co	mpare those question	ns with the	ones they f	ace themse	elves.	
	Crossli	sted: I	ndepend	dent (	College Programs; Rel	.igion; Peace, J	ustice and Human Rig	ghts				
	Enrollm	nent Lim	it: 15									
	Attribu	ites: A:	Meani	ng, Ii	nterpretation (Texts)	B: Analysis	of the Social World	Humanitie	es Peace,	Justice an	nd Human	
	Rights											
		2767	001	1.0	David Harrington W	att		T Th	1:00PM	2:25PM	LUT230	0
CPR	H298A	Impac	t Inves	sting								
		-		-	ting to generate both	ı a financial re	turn and a positive	social bene	efit. It sup	ports firm	ns seeking	
	to addr	ess soc	ial, er	nviror	nmental and /or gover	nance problems	(ESG) in a sustainab	ole way ofte	en within ma	rket activ	itv. The	
					not only gain an ur							
					ain practical experie							
	-	-		_	indings to an investment	-	-	-	-	•	_	
										a paren	9	

Attributes: B: Analysis of the Social World Peace, Justice and Human Rights Social Science B: Analysis of the Social World Peace, Justice and Human Rights Social Science

Crosslisted: Economics, Independent College Programs, PJHR

Prerequisite(s): ECON 104 or 105 or 106

Enrollment Limit: 16

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ubject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)			Days	Start	End	Room	Enrl
		2432	001	1.0	Shannon B. Mudd			F	2:30PM	3:25PM	UN114	0
		2432	001		Shannon B. Mudd			M W	2:30PM	3:55PM	UN114	0
PR	H301A					nsnational Injust	icas		2,00111	0,00111	011111	
	What ar the leaconside harms to develop to addr present in lega Crossli Enrollm Lottery	e the w ding ob r are c he poor ment, a ess the world l and p sted: I ent Lim	orldwick stacles colonial and do nd the se prob corder. colitica ndepend it: 15 ence(s)	de obs s to p lism a pes th pract plems Third al adv dent C : Ret	tacles to peace a eace and justice nd its legacies, em a kind of viol ice of human righ and be effective and finally, to ocacy, in public ollege Programs, urning CPGC Inter	nd justice? How c worldwide, and of whether we live i ence. The two sol ts. The course ai global citizens. hone the skills i life and the prof Political Science	an we surmount the what global citiz n a global racial utions we will comms, first, to give Second, to underst n analysis, theory essions, and in grant of the state of the st	ens can do abo order, and whe sider are the students some and some of the building, and aduate school.	but them. The ther the game project of the known and the major folds arguing the contract of t	he three obs lobal econor economic an owledge the rces that sl hat are high	stacles we mic order nd social y will need hape the	
	Attribu		_				and Human Rights	Social Justi				
		1186	001	1.0	Thomas J. Donahi	ıe		M	1:30PM	3:55PM	STO104	3
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Class meets six hours per week. Students must register for sections 1, 2 or 3 and A, B or C. An introduction to the four basic skills (reading, writing, speaking, and listening), with special emphasis on the development of conversational fluency in socio-cultural contexts. This is a year-long course; both semesters (001 & 002) are required for credit. Enrollment Limit: 18

Attributes: A: Meaning, Interpretation (Texts) East Asian Languages and Cultures Humanities

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)		Days	Start	End	Room	Enrlo
		1404	001	1.5	Tetsuya Sato		M W	8:30AM	9:55AM	STO18	8
		1407	002	1.5	Yuka Usami Casey		M W	10:00AM	11:25AM	STO18	5
		1410	003	1.5	Yuka Usami Casey		M W	1:00PM	2:25PM	STO18	5
		1410	003	.0	Kei Walsh			8:30AM	9:55AM	ST018	8
							T Th				
		1406	00B		Minako Kobayashi		T Th	10:00AM	11:25AM	STO18	5
		1411	00C		Minako Kobayashi		T Th	1:00PM	2:25PM	STO18	5
JNSE	Japanes not req Prerequ Enrollm Attribu  H101A Class m	eets five, with uired to isite (sent Limites: A: 1429 1430 1431 1432 Thirdeets th:	a focus take ): Firs it: 18 Meanir 001 002 00A 00B -Year J	rs per is on both st-year is not	week. Students must the further developme semesters.) r Japanese or equival  terpretation (Texts) Kimiko Suzuki Kimiko Suzuki Yuka Usami Casey Yuka Usami Casey Tuka Usami Casey Reer week. A continuatio	register for sections 1 or and of or	ng with reading a  Cultures Human:     M W     M W     T Th     T Th  rther development	### ##################################	9:55AM 11:25AM 11:25AM 12:25PM	ST014 ST014 ST014 ST014	4 9 5 8
				repor	i wriiina. Addiilonai	oral practice outside of the	he classroom expe	cted.			
	Prerequ Enrollm Attribu	isite(s) ent Limi tes: A: 1408	it: JNSE it: 18 <i>Meanir</i> 001	004 ng, In 1.0	or equivalent or inst terpretation (Texts) Tetsuya Sato	oral practice outside of the cructor consent  East Asian Languages and	•	ties	12:25PM	GST102	4
JNSE	Prerequ Enrollm Attribu H201A Class m of the Prerequ Enrollm	isite(s ent Lim tes: A: 1408 Advance eets the kanji, a isite(s ent Lim	it: JNSF it: 18 Meanir 001 ced Jap ree hou and exp ): JNSF it: 18	ang, In 1.0 anese ars pe bansio 1.02	or equivalent or inst  terpretation (Texts) Tetsuya Sato  r week. Continued tra n of vocabulary. Expl or equivalent or inst	East Asian Languages and wining in modern Japanese, who comes a variety of genres and	Cultures Human: M W F ith particular end text types usir	ties 11:30AM mphasis on reg authentic	ading texts		4 8
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JNSE	Prerequ Enrollm Attribu H201A Class m of the Prerequ Enrollm Attribu	isite(sent Lim.  tes: A: 1408  Advance eets the kanji, a isite(sent Lim. 1409  Independent	it: JNSE it: 18  Meanir 001  ced Jap ree hou and exp ): JNSE it: 18  Meanir 001  endent 001	anese ars pe pansio 1.0 1.0 2.004 1.0 2.005 2.102 2.007 1.0 3.005 3.004	or equivalent or inst  terpretation (Texts) Tetsuya Sato  r week. Continued tra n of vocabulary. Expl or equivalent or inst  terpretation (Texts) Kimiko Suzuki	East Asian Languages and animing in modern Japanese, whores a variety of genres and aructor consent	Cultures Human: M W F  ith particular end text types usin  Cultures Human:	ties 11:30AM  uphasis on reg authentic	ading texts materials.	, mastery	
JNSE	Prerequ Enrollm Attribu  H201A Class m of the Prerequ Enrollm Attribu  H480A  H001A Introdu vocabul ourselv in Lati Africa, course. Enrollm	isite (sent Limites: A: 1408  Advance eets the kanji, isite (sent Limites: A: 1409  Independent Transported and and and and and and the ent Limites: A: A: 1409  The control of the ent Limites: A:	meanir  ool  ced Jap ree hou and exp ): JNSE it: 18  Meanir 001  ced Jap ree hou and exp ): JNSE it: 18  Meanir 001  ced Jap ree hou and exp it: 18  Meanir it: 18  Meanir it: 18  Meanir it: 18  Meanir	ang, In  1.0  anese  ars pe  cansio  1.0  Study  1.0  study  1.0  atin  ar nec  tholo  distorted hum  ag, In	or equivalent or inst  terpretation (Texts) Tetsuya Sato  r week. Continued tra n of vocabulary. Expl or equivalent or inst  terpretation (Texts) Kimiko Suzuki  Tetsuya Sato  language. Our main fo essary to read the gr gy, history, and cult y of conversation tha anists of the Renaiss  terpretation (Texts)	East Asian Languages and animing in modern Japanese, whores a variety of genres and aructor consent	Cultures Human:  M W F  ith particular end text types usin  Cultures Human:  T Th  read classical Lapoetry and prose, so spend some tim Latin speakers of the day. This is the	aphasis on regardentic sties 11:30AM 1	ading texts materials.  12:55PM  tudying the familiarizi o converse converse and no ester of a	GST102  gand write orthern year-long	8
	Prerequ Enrollm Attribu  H201A Class m of the Prerequ Enrollm Attribu  H480A  H001A Introdu vocabul ourselv in Lati Africa, course. Enrollm	isite (sent Limites: A: 1408  Advance eets the kanji, a isite (sent Limites: A: 1409  Independent Telement Carlon to any and ee with n, join to the ent Limites: A: 1409  Advance of the carlon to the ent Limites: A: 1409  Independent Telement Carlon to the ent Limites: A: 1409  Independent Telement Carlon to the ent Limites: A: 1409  Independent Telement Carlon to the ent Limites: A: 1409  Independent Telement Carlon to the ent Limites: A: 1408	meanir 001  med Jap ree hou and exp 0: JNSE it: 18  Meanir 001  meanir 001  meanir 001  meanir 10  meanir 10	ang, In  1.0  anese  ars pe  cansio  1.0  Study  1.0  Study  1.0  atin  ar nec  tholo  istor  atin  ar nec  tholo  istor  1.0  1.0	or equivalent or inst  terpretation (Texts) Tetsuya Sato  r week. Continued tra n of vocabulary. Expl or equivalent or inst  terpretation (Texts) Kimiko Suzuki  Tetsuya Sato  language. Our main fo essary to read the gr gy, history, and cult y of conversation tha anists of the Renaiss	East Asian Languages and an animal in modern Japanese, who cores a variety of genres and animal content.  East Asian Languages and animal content and animal content.  East Asian Languages and animal content animal content animal content animal content and animal content and animal content and animal content animal conte	Cultures Human: M W F  ith particular end text types usin  Cultures Human: T Th  read classical Lapoetry and prose, so spend some tim Latin speakers of	aphasis on regardentic sties 11:30AM 1	ading texts materials.  12:55PM  tudying the familiarizi o converse rope and no	GST102  g ng and write orthern	8

Our focus in this intermediate language course will be on reading and analyzing selections from two Latin texts, Catullus' Carmina (Poems) and The Passion of Perpetua and Felicity. Through this exercise, we will review various aspects of Latin

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	grammar and develop sound reading strategies as we continue our study of Latin the cultural, literary, and historical issues that these two texts speak to, pa (cultural, gender, or religious) and Roman social mores.  Prerequisite(s): LATN 002 or placement into LATN 102.					
	Attributes: A: Meaning, Interpretation (Texts) Classics Humanities 1161 001 1.0 Robert S Santucci	M W F	10:30AM	11:25AM		4
LATN	H201A Advanced Latin Literature  Prerequisite(s): Two semesters of 100-level Latin, or instructor consent  Attributes: A: Meaning, Interpretation (Texts) Humanities					
	Attributes: A: Meaning, Interpretation (Texts) Humanities 2714 001 1.0 TBA Department staff	T Th	10:00AM	11:25AM		7
LING	H101A Introduction to Linguistics  An introductory survey of linguistics as a field. This course examines the core phonology, syntax, semantics), pragmatics, and language variation in relation trudimentary training in the analysis of language data, and focuses on the varie question of universal properties of language.  Enrollment Limit: 25, 10 spaces reserved for incoming first year students Lottery Preference(s):  (1) Sr. Ling Majors (2) Jr. Ling Majors (3) Sr. Ling Minors (4) Jr. Ling Minors (5) Neuroscience majors/minors	to language ch	ange. The c	course prov	ides	
	<ul> <li>(6) sophomores</li> <li>(7) first years</li> <li>(8) everyone else (jrs/seniors)</li> <li>Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social Worl</li> <li>1940 001 1.0 Noah Elkins</li> </ul>	ld Humanitie M W	s 10:00AM	11:25AM	STO102	21
ING	(6) sophomores (7) first years (8) everyone else (jrs/seniors)  Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social Worl  1940 001 1.0 Noah Elkins  H113A Introduction to Syntax  This course is a hands-on investigation of sentence structures in human language Collectively, the class will develop an increasingly complex syntactic theory sewhere they lead. In the process, students will develop skills in observing syntein 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)	M W ge. This is a getarting with	10:00AM  participati basic assum s and analy	on intensi	ve course.	21

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.

bject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	Prerequisite(s): Any previous linguistics class or instructor permission.					
	Enrollment Limit: 25					
	Lottery Preference(s):					
	(1) Sr. Ling Majors					
	(2) Jr. Ling Majors					
	(3) Sr. Ling Minors					
	(4) Jr. Ling Minors					
	(5) Neuroscience minors					
	(6) sophomores					
	(7) first years					
	(8) everyone else (jrs/seniors)					
	Attributes: B: Analysis of the Social World Humanities Neuroscience Symbo	olic Reasoning				
	1597 001 1.0 Shizhe Huang	T Th	1:00PM	2:25PM	CHS101	19
NG	H115A Phonetics and Phonology					
	This course investigates the sound patterns found in human languages. Phonetics					
	physical and perceptual perspective while phonology is the study of sound patte					
	in the class will expose students to the methodologies used by both perspective					
	analysis for phonetics and formal theoretical models for phonology) and show th	ne necessity a	nd utility	of both ap	proaches in	1
	understanding the nature of sound patterns in human language.					
	Enrollment Limit: 25					
	Lottery Preference(s):					
	(1) Sr. Ling Majors					
	(2) Jr. Ling Majors					
	(3) Sr. Ling Minors					
	(4) Jr. Ling Minors					
	(5) Neuroscience minors					
	(6) sophomores					
	(7) first years					
	(8) everyone else (jrs/seniors)					
	(8) everyone else (jrs/seniors) Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning					
		M W	1:00PM	2:25PM		12
NG	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins  H214A Spanish in the US: Language, identity and politics					12
NG	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins				. It	12
NG	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins  H214A Spanish in the US: Language, identity and politics	s with a focus	on Spanis	n in the US		12
NG	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins  H214A Spanish in the US: Language, identity and politics The course introduces students to basic concepts of (critical) sociolinguistics	s with a focus nguage to Lati:	on Spanis nx identit	n in the US ies, and ho	w language	12
1G	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins  H214A Spanish in the US: Language, identity and politics The course introduces students to basic concepts of (critical) sociolinguistics examines the history and politics of Spanish in the US, the relationship of lan	s with a focus nguage to Lati:	on Spanis nx identit	n in the US ies, and ho	w language	12
1G	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins  H214A Spanish in the US: Language, identity and politics The course introduces students to basic concepts of (critical) sociolinguistics examines the history and politics of Spanish in the US, the relationship of lan ideologies and policies reflect and shape societal views of Spanish and its spe	s with a focus nguage to Lati:	on Spanis nx identit	n in the US ies, and ho	w language	12
IG	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins  H214A Spanish in the US: Language, identity and politics The course introduces students to basic concepts of (critical) sociolinguistics examines the history and politics of Spanish in the US, the relationship of lan ideologies and policies reflect and shape societal views of Spanish and its spe social injustices). Course taught in Spanish.	s with a focus nguage to Lati:	on Spanis nx identit	n in the US ies, and ho	w language	12
1G	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins  H214A Spanish in the US: Language, identity and politics The course introduces students to basic concepts of (critical) sociolinguistics examines the history and politics of Spanish in the US, the relationship of lan ideologies and policies reflect and shape societal views of Spanish and its spe social injustices). Course taught in Spanish.  Prerequisite(s): Course at the 200-level in Spanish or Linguistics	s with a focus nguage to Lati:	on Spanis nx identit	n in the US ies, and ho	w language	12
NG	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins  H214A Spanish in the US: Language, identity and politics The course introduces students to basic concepts of (critical) sociolinguistics examines the history and politics of Spanish in the US, the relationship of lan ideologies and policies reflect and shape societal views of Spanish and its spe social injustices). Course taught in Spanish. Prerequisite(s): Course at the 200-level in Spanish or Linguistics Enrollment Limit: 25	s with a focus nguage to Lati:	on Spanis nx identit	n in the US ies, and ho	w language	12
NG	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins  H214A Spanish in the US: Language, identity and politics The course introduces students to basic concepts of (critical) sociolinguistics examines the history and politics of Spanish in the US, the relationship of lan ideologies and policies reflect and shape societal views of Spanish and its spe social injustices). Course taught in Spanish.  Prerequisite(s): Course at the 200-level in Spanish or Linguistics Enrollment Limit: 25 Lottery Preference(s):	s with a focus nguage to Lati:	on Spanis nx identit	n in the US ies, and ho	w language	12
NG	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins  H214A Spanish in the US: Language, identity and politics The course introduces students to basic concepts of (critical) sociolinguistics examines the history and politics of Spanish in the US, the relationship of lan ideologies and policies reflect and shape societal views of Spanish and its spe social injustices). Course taught in Spanish.  Prerequisite(s): Course at the 200-level in Spanish or Linguistics Enrollment Limit: 25 Lottery Preference(s): 1. Spanish and Linguistics Majors, LAILS concentrators	s with a focus nguage to Lati eakers (and co	on Spanish nx identit ntribute to	n in the US ies, and ho o discrimin	w language ation and	
NG	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins  H214A Spanish in the US: Language, identity and politics The course introduces students to basic concepts of (critical) sociolinguistics examines the history and politics of Spanish in the US, the relationship of lan ideologies and policies reflect and shape societal views of Spanish and its spe social injustices). Course taught in Spanish.  Prerequisite(s): Course at the 200-level in Spanish or Linguistics Enrollment Limit: 25 Lottery Preference(s): 1. Spanish and Linguistics Majors, LAILS concentrators 2. Seniors and Juniors	s with a focus nguage to Lati eakers (and co	on Spanish nx identit ntribute to	n in the US ies, and ho o discrimin	w language ation and	
NG	Attributes: B: Analysis of the Social World Humanities Symbolic Reasoning 1942 001 1.0 Noah Elkins  H214A Spanish in the US: Language, identity and politics The course introduces students to basic concepts of (critical) sociolinguistics examines the history and politics of Spanish in the US, the relationship of lan ideologies and policies reflect and shape societal views of Spanish and its spe social injustices). Course taught in Spanish.  Prerequisite(s): Course at the 200-level in Spanish or Linguistics Enrollment Limit: 25 Lottery Preference(s): 1. Spanish and Linguistics Majors, LAILS concentrators 2. Seniors and Juniors Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World	s with a focus nguage to Lati eakers (and co	on Spanish nx identit ntribute to	n in the US ies, and ho o discrimin	w language ation and	

This course familiarizes students with original research in semantics. We review the basics of formal pragmatics, compositional semantics, lambda calculus, and event semantics. Then we read and discuss a selection of research articles, culminating in a final research project.

Prerequisite(s): LING 114
Enrollment Limit: 15

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	Lottery Preference(s): Linguistics majors, Linguistics minors, then first years Attributes: B: Analysis of the Social World Social Science	-		•		
	1939 001 1.0 Amanda Payne	Т	1:30PM	3:55PM	ST0207	1
ING	H299A Advanced Research Methods Students will explore the methods and tools used in research in many linguistics experimental, and sociolinguistics. We will study examples of previous senior the identifying their research questions, contributions, and argument structure. Stuchoosing, compiling and synthesizing literature and culminating in a research prepoint for their senior thesis.  Pre-requisite(s): Any TWO of the following, or instructor permission: LING101 (S (S025) Sociolinguistics, LING113 (S050) Syntax, LING114 (S040) Semantics, LING11 Lottery Preference: 1) Senior majors, 2) Junior Majors, 3) Minors, 4) Everyone e Enrollment Limit: 15.00	eses as well dents will opposal that 001) Introd 5 (S045) Ph	l as publish also work or could serve uction to Li	ned articles n a topic of e as the sta	s, f their own arting	
	Attributes: B: Analysis of the Social World Social Science					
	1612 001 1.0 Jane Chandlee	F	1:30PM	3:55PM	ST0207	5
	This seminar exposes students to linguistic research methods and guides them thr research, and the writing of a senior thesis. All linguistics majors must write S100 or S195. Enrollment limited to 15 students, Senior linguistics majors only. Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World 1440 001 1.0 Brook Danielle	their senio	r thesis in		_	2
	Lillehaugen					
ATH	Lillehaugen 1441 002 1.0 Shizhe Huang  H105A Applied Modeling with Calculus An introduction to aspects of calculus useful in applied work in the natural and		•	_	-	0
НТА	H105A Applied Modeling with Calculus  An introduction to aspects of calculus useful in applied work in the natural and developing mathematical modeling skills. Topics include differential and integra multivariable optimization, and modeling with differential equations. Application course is taught at the level of a beginning calculus course, and no prior calculus prerequisite(s): Not open to students placing into MATH 118 or higher or Math 10 credit for calculus or with previous calculus credit, except with instructor contension Enrollment Limit: 25  Attributes: C: Physical and Natural Processes Natural Science Quantitative 1493 001 1.0 Jeffrey Tecosky—Feldman	social sci l calculus ns to biolo lus experie 5 cannot be sent	ences, with of functions gy, economic nce is assum taken by st	a strong ends of one values, and physical actions and physical actions are actions. The strong end of the strong end end of the strong end of the strong end	mphasis on riable, sics. This have AP	24
	H105A Applied Modeling with Calculus  An introduction to aspects of calculus useful in applied work in the natural and developing mathematical modeling skills. Topics include differential and integra multivariable optimization, and modeling with differential equations. Application course is taught at the level of a beginning calculus course, and no prior calculus prerequisite(s): Not open to students placing into MATH 118 or higher or Math 10 credit for calculus or with previous calculus credit, except with instructor contension Enrollment Limit: 25  Attributes: C: Physical and Natural Processes Natural Science Quantitative 1493 001 1.0 Jeffrey Tecosky—Feldman 2547 002 1.0 Rebecca Everett	social sci l calculus ns to biolo lus experie 5 cannot be sent	ences, with of functions gy, economic nce is assum taken by st	a strong els of one values, and physical and physical and cudents who	mphasis on riable, sics. This have AP	
	H105A Applied Modeling with Calculus An introduction to aspects of calculus useful in applied work in the natural and developing mathematical modeling skills. Topics include differential and integra multivariable optimization, and modeling with differential equations. Application course is taught at the level of a beginning calculus course, and no prior calculus rerequisite(s): Not open to students placing into MATH 118 or higher or Math 10 credit for calculus or with previous calculus credit, except with instructor con Enrollment Limit: 25  Attributes: C: Physical and Natural Processes Natural Science Quantitative 1493 001 1.0 Jeffrey Tecosky—Feldman 2547 002 1.0 Rebecca Everett  H118A Calculus: Dynamics and Integration A study of the evolution of systems defined by difference and differential equat calculus: the limit, the derivative, and the integral from numerical, graphical, students placing into Math 121 or higher, except with instructor permission. Prerequisite(s): MATH 105 or placement. Not open to students with credit for MAT with instructor consent Enrollment Limit: 24  Attributes: C: Physical and Natural Processes Natural Science Quantitative 1465 001 1.0 Anthony Kling 1466 002 1.0 Joshua Sabloff	social scil calculus ons to bioloolus experies cannot be sent  M W F  M W F  ions. Methodand symbol  H B102 (Calculus of the cand symbol)  M W M W	ences, with of functions gy, economic nce is assum taken by st  10:30AM  10:30AM  ds of analys ic perspecti culus II) or  10:00AM 10:00AM	a strong els of one values, and physical and	mphasis on riable, sics. This have AP  HLS109  UNMAC  om pen to  t, except  ST010  ST016	24 2 2 9
ATH	H105A Applied Modeling with Calculus An introduction to aspects of calculus useful in applied work in the natural and developing mathematical modeling skills. Topics include differential and integra multivariable optimization, and modeling with differential equations. Application course is taught at the level of a beginning calculus course, and no prior calculus rerequisite(s): Not open to students placing into MATH 118 or higher or Math 10 credit for calculus or with previous calculus credit, except with instructor con Enrollment Limit: 25  Attributes: C: Physical and Natural Processes Natural Science Quantitative 1493 001 1.0 Jeffrey Tecosky-Feldman 2547 002 1.0 Rebecca Everett  H118A Calculus: Dynamics and Integration A study of the evolution of systems defined by difference and differential equat calculus: the limit, the derivative, and the integral from numerical, graphical, students placing into Math 121 or higher, except with instructor permission. Prerequisite(s): MATH 105 or placement. Not open to students with credit for MAT with instructor consent Enrollment Limit: 24  Attributes: C: Physical and Natural Processes Natural Science Quantitative 1465 001 1.0 Anthony Kling	social scil calculus ons to bioloolus experies cannot be sent  M W F  M W F  ions. Methodand symbol  H B102 (Calculus of the cand symbol)  M W	ences, with of functions gy, economic nce is assum taken by st  10:30AM  10:30AM  ds of analys ic perspecticulus II) or	a strong els of one values, and physical and	mphasis on riable, sics. This have AP  HLS109  UNMAC  om pen to  t, except  ST010	24 2

Enrollment Limit: 30

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)			Days	Start	End	Room	Enrl
	An intr	oductio	n to fi	unctio	ns of several variab	oles, vector geo	metry, partial de	erivatives, opt	imization,	Taylor's T	neorem,	
					ntegrals, and Green'					-	·	
	Prerequ	isite(s	): MAT	н 118	or equivalent place	ement, or instru	ctor consent. Not	open to stude	nts who hav	e previous	ly taken	
	multiva	riable	calcul	us at	the college level, e	ither at Haverf	ord or elsewhere,	except with i	nstructor o	onsent		
	Enrollm	ent Lim	it: 24									
	Attribu				: Physical and Natur	cal Processes	Natural Science	Quantitative				
		1467	001	1.0	Tianyuan Xu			M W F	9:30AM	10:25AM	HLL7	10
		1468	002	1.0	Tianyuan Xu			M W F	10:30AM	11:25AM	HLL7	4
		1483	003	1.0	Elizabeth Townsend			M W F	10:30AM	11:25AM	HLS11	18
					Milicevic							
		1496	004	1.0	Elizabeth Townsend			M W F	11:30AM	12:25PM	HLS11	9
					Milicevic							
ATH	H203A	Stati	stical	Metho	ds and their Applica	tions						
					ical methods used to							
					nd normal distributi			•				
	_		two sar	mples,	regression, and ana	lysis of varian	ce. A required co	omputer lab, us	ing R, is t	aught along	gside this	
	course.											
					Statistics						_	
					or higher, placement							
			_		stics course at Have	rford or Bryn M	awr may only enro	oll in STAT 203	with instr	ructor conse	ent	
		ent Lim			1 37 / 7 5	77 7.1 0. 1.	7 7 7	0 111 1				
	Attribu				d Natural Processes	Health Studie	s Natural Scien			2 . EEDM	III 01 0	0
		1471 1472	001		Weiwen Miao			M W F	2:30PM	3:55PM	HLS12	9 9
			00A		Weiwen Miao			Ľ.	2:30PM	3:55PM	HLS12	9
IATH	H206A				athematical Cryptogr				. ,			
					ern cryptography fro					_		
					ysis, and practical yptography. We will							
	arithme	_	tic cu.	rve cr	yprography. We will	. also develop a	iy necessary maci	Tematical Dacky	Tourid, Trici	.uaing moau.	Lai	
			e) • Ma	121 שיד	or 215, or permissi	on of the instr	ictor					
		Prefer				.On or the mistr	10001					
	Enrollm											
					d Natural Processes	Natural Scien	~e					
	71001100	2571	-		Anthony Kling	Natural Desem		T Th	10:00AM	11:25AM	HLS11	21
ATH	H215A		r Algek		intending Relating			1 111	10.001111	11.20111	112011	
MIU.	_		-		o linear algebra, fo	ocusing on proof	techniques Toni	ics covered inc	lude: vecto	r snaces	linear	
					es, determinants, ei					_	IIICUI	
					or equivalent placem	-				20•		
	_	ent Lim										
					d Natural Processes	Natural Scien	ce Quantitative	9				
		1459	001		Mehdi Abdi Anbouhi		~	M W F	8:30AM	9:25AM		18
		1460	002		Jeffrey Tecosky-			MWF	12:30PM	1:25PM	HLS109	18
					Feldman							
ATH	H218A	Probal	bility		<u> </u>							
			_		lity theory. Topics	include: sample	spaces, combinat	torics, conditi	onal probah	ilit.v. inde	ependence.	
			_		ndom variables, func	-	-	•	-	<b>-</b> ·	-	
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Attributes: C: Physical and Natural Processes Natural Science Quantitative

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl
	1470 001 1.0 Lynne M. Butler	M W F	10:30AM	11:25AM	HLS108	30
ATH	H299A Junior Seminar in Mathematics and Statistics					
	A course to introduce all math majors to research and communication methods used by					
	discuss the structures and workings of mathematical communities, including the eth	nical impli	cations of	bringing m	athematical	
	skills to a workplace or community. Students produce a "junior paper" anchored in	n an applic	ation of li	near algeb	ra, helping	ſ
	prepare them to write a thesis as a senior, and plan a colloquium or panel discuss	sion open t	to the entir	re Haverfor	d	
	community.					
	Pre-requisite(s): Linear Algebra (MATH H215) or instructor consent					
	Lottery Preference: Math Majors, by seniority within that group					
	Enrollment Limit: 25.00					
	Attributes: C: Physical and Natural Processes Natural Science					
	2568 001 1.0 Elizabeth Townsend	F	1:30PM	3:55PM	HLS11	13
	Milicevic					
HTA	H317A Analysis I					
	A rigorous development of topics in calculus, including the axioms of the real num		_			
	sequences, point-set topology (open/closed sets, compactness, connectedness), cont			lity, and	the Riemann	L
	integral. The course also has a major focus on the writing of clear and correct ma	athematical	proofs.			
	Prerequisite(s): MATH 215 and either 121 or 216, or instructor consent					
	Enrollment Limit: 25					
	Attributes: C: Physical and Natural Processes Natural Science Quantitative					
	Attributes: C: Physical and Natural Processes Natural Science Quantitative 1469 001 1.0 David Lippel	M W F	11:30AM	12:25PM	STO14	25
ИАТН	Attributes: C: Physical and Natural Processes Natural Science Quantitative 1469 001 1.0 David Lippel  H335A Topology					
<b>И</b> АТН	Attributes: C: Physical and Natural Processes Natural Science Quantitative 1469 001 1.0 David Lippel  H335A Topology Generalizes topological concepts from Euclidean spaces to arbitrary topological sp	paces, and	introduces	elements o	f algebraic	
<b>4</b> АТН	Attributes: C: Physical and Natural Processes Natural Science Quantitative 1469 001 1.0 David Lippel  H335A Topology Generalizes topological concepts from Euclidean spaces to arbitrary topological sp topology. Concepts covered include continuity, connectedness, and compactness. The	paces, and	introduces	elements o	f algebraic	
<b>И</b> АТН	Attributes: C: Physical and Natural Processes Natural Science Quantitative 1469 001 1.0 David Lippel  H335A Topology Generalizes topological concepts from Euclidean spaces to arbitrary topological sp topology. Concepts covered include continuity, connectedness, and compactness. The the fundamental group and covering spaces.	paces, and	introduces	elements o	f algebraic	
<b>И</b> АТН	Attributes: C: Physical and Natural Processes Natural Science Quantitative 1469 001 1.0 David Lippel  H335A Topology Generalizes topological concepts from Euclidean spaces to arbitrary topological sp topology. Concepts covered include continuity, connectedness, and compactness. The the fundamental group and covering spaces. Prerequisite(s): MATH 317 with MATH 333 as a co-requisite, or instructor consent	paces, and	introduces	elements o	f algebraic	
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<b>Л</b> АТН	Attributes: C: Physical and Natural Processes Natural Science Quantitative 1469 001 1.0 David Lippel  H335A Topology Generalizes topological concepts from Euclidean spaces to arbitrary topological sp topology. Concepts covered include continuity, connectedness, and compactness. The the fundamental group and covering spaces. Prerequisite(s): MATH 317 with MATH 333 as a co-requisite, or instructor consent Enrollment Limit: 25 Attributes: C: Physical and Natural Processes Natural Science 2549 001 1.0 Tarik Aougab  H340A Analysis of Algorithms	M W	introduces alminates in 2:30PM	elements on an explor	f algebraic ation of	:
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An introduction to modeling in applied mathematics using differential equations, with examples from biology, chemistry, engineering, physics, and/or the social sciences. Through these examples, we build mathematical models that reflect real world scenarios and analyze them to gain an understanding of the problem. Techniques of analysis may include phase plane methods, stability analysis, bifurcation theory, and computer simulation.

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	Pre-requisite(s): MATH H204 or equivalent, or permission of the instructor					
	Lottery Preference: Math majors, then math minors, then by seniority					
	Enrollment Limit: 15.00					
	Attributes: C: Physical and Natural Processes Natural Science					
	2578 001 1.0 Rebecca Everett	M W F	12:30PM	1:25PM	ESTW309	15
MATH	H390A Advanced Topics in Algebra: Algebraic Combinatorics					
	An introduction to applications of algebra to combinatorics and vice versa. Topics					
	generating functions, the matrix-tree theorem, the Robinson-Schensted-Knuth corres	spondence,	symmetric i	unctions,	and the	
	<pre>basic theory of Coxeter groups. Prerequisite(s): MATH 333</pre>					
	Enrollment Limit: 15					
	Attributes: C: Physical and Natural Processes Natural Science					
	2575 001 1.0 Tianyuan Xu	M W F	12:30PM	1:25PM		6
MATH	H394A Advanced Topics in Theoretical Computer Science: Math Foundations of					
	Machine Learning					
	An introduction to the mathematical principles behind modern machine learning algo-			-		
	algebra, vector calculus, probability theory, and optimization, with a particular	focus on t	heir releva	ince to mac	hine	
	learning tasks. We will also discuss various practical applications. Crosslisted: Mathematics, Computer Science					
	Prerequisite(s): MATH 121 and 215, or instructor permission					
	Enrollment Limit: 15					
	Attributes: C: Physical and Natural Processes Natural Science					
	2576 001 1.0 Mehdi Abdi Anbouhi	M W F	9:30AM	10:25AM		12
MATH	H396A Advanced Topics in Probability and Statistics: Categorical Data Analysis Various topics in statistics will be covered. Statistical methods for qualitative	and counte	d data Tor	vics includ	۵	
	description and inference for binomial and multinomial data using proportions and		-			
	generalized linear models for discrete data, including logistic regression for bir					
	counted data; multi-category logit models for nominal and ordinal responses; and i	inference f	or matched-	pairs and	correlated	
	data. Applications and interpretations of statistical models are emphasized.					
	Crosslisted: Mathematics, Statistics					
	Prerequisite(s): MATH 218. Students who have taken STAT 203 or 286 may take MATH 2	218 concurr	ently.			
	Enrollment Limit: 50 Attributes: Natural Science Quantitative					
	2569 001 1.0 Lynne M. Butler	M W	2:30PM	3:55PM	ESTW309	4
MATH	H399F Senior Seminar	11 W	2.30111	3.33111	DOIWOOD	
	Seminar for students writing senior papers, dealing with the oral and written expo	osition of	advanced ma	terial.		
	Attributes: C: Physical and Natural Processes Natural Science					
	1458 001 .5 Lynne M. Butler	F	1:30PM	3:55PM	HLS108	
	1430 OOI .3 Lynne M. Ducter	-	<b></b> 00111	0.00111	11112100	16
MATH	H400F Senior Research		1.00111	0.00211	пьэтоо	16
МАТН		-	2,00111	0,00211	11111100	16
МАТН	H400F Senior Research Work on Senior Thesis with Advisor. Attributes: C: Physical and Natural Processes Natural Science Quantitative		1,00211	0,00211	1113100	
МАТН	H400F Senior Research Work on Senior Thesis with Advisor. Attributes: C: Physical and Natural Processes Natural Science Quantitative 1457 001 .5 Rebecca Everett		110022	0.00111	пцотоо	0
МАТН	H400F Senior Research Work on Senior Thesis with Advisor. Attributes: C: Physical and Natural Processes Natural Science Quantitative 1457 001 .5 Rebecca Everett 1461 002 .5 Lynne M. Butler		1,00111	5,552.11	111.51.00	0 1
МАТН	H400F Senior Research Work on Senior Thesis with Advisor. Attributes: C: Physical and Natural Processes Natural Science Quantitative 1457 001 .5 Rebecca Everett 1461 002 .5 Lynne M. Butler 1462 003 .5 Joshua Sabloff	-	2100211	3,002.11	1115100	0 1 1
МАТН	H400F Senior Research Work on Senior Thesis with Advisor. Attributes: C: Physical and Natural Processes Natural Science Quantitative 1457 001 .5 Rebecca Everett 1461 002 .5 Lynne M. Butler 1462 003 .5 Joshua Sabloff 1463 004 .5 Elizabeth Townsend	-	2100211	0,00211	IIISTOO	0 1
матн	H400F Senior Research Work on Senior Thesis with Advisor. Attributes: C: Physical and Natural Processes Natural Science Quantitative  1457 001 .5 Rebecca Everett 1461 002 .5 Lynne M. Butler 1462 003 .5 Joshua Sabloff 1463 004 .5 Elizabeth Townsend Milicevic	-	2100211	0,00211	IIISTOO	0 1 1 0
матн	H400F Senior Research Work on Senior Thesis with Advisor. Attributes: C: Physical and Natural Processes Natural Science Quantitative 1457 001 .5 Rebecca Everett 1461 002 .5 Lynne M. Butler 1462 003 .5 Joshua Sabloff 1463 004 .5 Elizabeth Townsend Milicevic 1464 005 .5 Tarik Aougab	-	2100211	0,00211	ILSTO	0 1 1 0
матн	H400F Senior Research Work on Senior Thesis with Advisor. Attributes: C: Physical and Natural Processes Natural Science Quantitative  1457 001 .5 Rebecca Everett 1461 002 .5 Lynne M. Butler 1462 003 .5 Joshua Sabloff 1463 004 .5 Elizabeth Townsend Milicevic	-	2100211	0,00211	ILSTO	0 1 1 0

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	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)			Days	Start	End	Room	Enrld
		1504	008	.5	Anthony Kling							0
ATH	H480A	Indepe	endent	Study								
	Indepen	dent St	udy									
		1487	001	1.0								0
		1492	002	1.0								0
ATH	H480F	Indepe	endent	Study								
		1479	001	.5								0
		1484	002	.5								0
JSC	H102F	Choral										
			_	ixed c	horus that performs major w	orks from the orator	rio repertoi:	re with	orchestra a	nd student	soloists.	
	Attenda	nce at w	weekly	two-h	our rehearsals and dress re	hearsals during perf	formance weel	k is req	uired. Ent	rance by a	udition.	
	Student	s can s	tart Cl	horale	at the beginning of any se	mester. This course	is graded u	niversal	P/F in whi	ch no nume	rical grade	
	is assi	_										
	Attribu	tes: Hu										
		1214	001		Scott AuCoin			W	7:00PM	9:15PM	ROB100	10
USC	H110A				usic Theory			_				
					to the notational and theor				-	_	J J.	
	_				ation. This course is appro	-	_			•		
			4		struction in music theory.	-	-		•	•	•	
				_	gressions, melodic constructudents who wish to explore		_			_		
	-				-		-			-	-	
	uscrur,						of melodies	in the	mator and m		and a K/-	
	har nie			_	ojects are assigned: the co				_		•	
	-	ce which	h chan	ges ke	y. Preparation for these pr	ojects is provided t	through liste	ening an	d analysis	of works i	n a variety	
	of musi	ce which	h chand les. St	ges ke tudent	y. Preparation for these pr s having completed this cou	ojects is provided t	through liste	ening an	d analysis	of works i	n a variety	
	of musi theory	ce which cal styl sequence	h chand les. St e for n	ges ke tudent music	y. Preparation for these pr	ojects is provided t	through liste	ening an	d analysis	of works i	n a variety	
	of musi theory	ce which cal styl sequence	h chandles. Stee for a Creat.	ges ke tudent music <i>ive Ex</i>	y. Preparation for these pr s having completed this cou majors.	ojects is provided t	through liste	ening an	d analysis	of works i	n a variety	
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usc	of musi theory Attribu H203A An intr	ce which cal styl sequence tes: A: 1226 Prince oduction	n chance les. Sie for in Creat. 001 iples on to to	ges ke tudent music ive Ex 1.0 of Ton onal m	ry. Preparation for these pr s having completed this cou majors. rpression Humanities Ingrid Arauco al Harmony I	ojects is provided trse will be prepared al practice, drawing	chrough listed to enter Me	ening an usic 203 T Th America	d analysis, the first  10:00AM  n and Europ	of works is semester 11:25AM	n a variety of the  ROB200 ories.	13
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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

	Cat Nbr ClNbr Sctn Crd Instructor(s) Days Start End Room	Enrl
	semester. Students assume the cost of their lessons, but may apply for private study subsidies at the beginning of each	
	semester's study through the department.	
	Attributes: A: Creative Expression Humanities	
	1218 001 .5 Scott AuCoin	10
USC	H210F Private Study: Keyboard	
	All students enrolled in the private study program should be participating in a departmentally directed ensemble or activity	
	(Chorale, Orchestra, etc.) as advised by their program supervisor. Students receive ten hour-long lessons with approved	
	teachers for one-half credit, graded. All students in the private study program perform for a faculty jury at the end of the	
	semester. Students assume the cost of their lessons, but may apply for private study subsidies at the beginning of each	
	semester's study through the department.	
	Attributes: A: Creative Expression Humanities	_
	1219 001 .5 Heidi Carolyn Jacob	5
IUSC	H214F Chamber Singers	
	A 30-voice mixed choir that performs a wide range of mostly a cappella repertoire from the Renaissance to the present day,	
	in original languages. The choir performs on and off campus, both public concerts and outreach concerts to underserved	
	audiences. Requires attendance at three 80-minute rehearsals weekly. Entrance by audition at the beginning of the Fall	
	semester each year. This course is graded universal P/F in which no numerical grade is assigned.	
	1215 001 .5 Scott AuCoin M Th 4:40PM 6:20PM ROB100	11
MUSC	H215F Chamber Music	
	Intensive rehearsal of works for small instrumental groups, with supplemental assigned research and listening. Performance	
	is required. Students enrolled in Chamber Music have the opportunity to receive coaching from visiting artists on the	
	Concert Artist Series and from resident ensembles. Performances take place at Haverford and Bryn Mawr Colleges, and other	
	community venues. This course is available to those students who are concurrently studying privately, or who have studied	
	privately immediately prior to the start of the semester. In addition, all students playing orchestral instruments must	
	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	
	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.	
	privately immediately prior to the start of the semester. In addition, all students playing orchestral instruments must participate concurrently in the Orchestra, unless granted permission by the music director. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned.  Attributes: Humanities	8
misc.	privately immediately prior to the start of the semester. In addition, all students playing orchestral instruments must participate concurrently in the Orchestra, unless granted permission by the music director. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned.  Attributes: Humanities  1212 001 .5 Heidi Carolyn Jacob	8
<b>M</b> USC	privately immediately prior to the start of the semester. In addition, all students playing orchestral instruments must participate concurrently in the Orchestra, unless granted permission by the music director. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned.  Attributes: Humanities  1212 001 .5 Heidi Carolyn Jacob  H216F Orchestra	8
wusc .	privately immediately prior to the start of the semester. In addition, all students playing orchestral instruments must participate concurrently in the Orchestra, unless granted permission by the music director. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned.  Attributes: Humanities  1212 001 .5 Heidi Carolyn Jacob  H216F Orchestra  The Haverford-Bryn Mawr Orchestra has over seventy members and performs a wide range of symphonic repertory. Orchestra	8
<b>M</b> USC	privately immediately prior to the start of the semester. In addition, all students playing orchestral instruments must participate concurrently in the Orchestra, unless granted permission by the music director. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned.  Attributes: Humanities  1212 001 .5 Heidi Carolyn Jacob  H216F Orchestra  The Haverford-Bryn Mawr Orchestra has over seventy members and performs a wide range of symphonic repertory. Orchestra members are expected to attend one two-and-a-half hour rehearsal per week, and are guided in sectional rehearsals by	8
MUSC	privately immediately prior to the start of the semester. In addition, all students playing orchestral instruments must participate concurrently in the Orchestra, unless granted permission by the music director. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned.  Attributes: Humanities  1212 001 .5 Heidi Carolyn Jacob  H216F Orchestra  The Haverford-Bryn Mawr Orchestra has over seventy members and performs a wide range of symphonic repertory. Orchestra members are expected to attend one two-and-a-half hour rehearsal per week, and are guided in sectional rehearsals by professional musicians. There are three/four performances a year, including Parents/Family Weekend concerts. The spring	8
MUSC	privately immediately prior to the start of the semester. In addition, all students playing orchestral instruments must participate concurrently in the Orchestra, unless granted permission by the music director. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned.  Attributes: Humanities  1212 001 .5 Heidi Carolyn Jacob  H216F Orchestra  The Haverford-Bryn Mawr Orchestra has over seventy members and performs a wide range of symphonic repertory. Orchestra members are expected to attend one two-and-a-half hour rehearsal per week, and are guided in sectional rehearsals by professional musicians. There are three/four performances a year, including Parents/Family Weekend concerts. The spring Orchestra concert features the winner of the annual student concerto competition. Entrance by audition only. This course is	8
MUSC	privately immediately prior to the start of the semester. In addition, all students playing orchestral instruments must participate concurrently in the Orchestra, unless granted permission by the music director. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned.  Attributes: Humanities  1212 001 .5 Heidi Carolyn Jacob  H216F Orchestra  The Haverford-Bryn Mawr Orchestra has over seventy members and performs a wide range of symphonic repertory. Orchestra members are expected to attend one two-and-a-half hour rehearsal per week, and are guided in sectional rehearsals by professional musicians. There are three/four performances a year, including Parents/Family Weekend concerts. The spring Orchestra concert features the winner of the annual student concerto competition. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned.	8
īUSC .	privately immediately prior to the start of the semester. In addition, all students playing orchestral instruments must participate concurrently in the Orchestra, unless granted permission by the music director. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned.  Attributes: Humanities  1212 001 .5 Heidi Carolyn Jacob  H216F Orchestra  The Haverford-Bryn Mawr Orchestra has over seventy members and performs a wide range of symphonic repertory. Orchestra members are expected to attend one two-and-a-half hour rehearsal per week, and are guided in sectional rehearsals by professional musicians. There are three/four performances a year, including Parents/Family Weekend concerts. The spring Orchestra concert features the winner of the annual student concerto competition. Entrance by audition only. This course is graded universal P/F in which no numerical grade is assigned.  1213 001 .5 Heidi Carolyn Jacob  Th 7:00PM 9:25PM ROB100	•
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## Musical Cultures of Afro-Latin America MUSC

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

	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	explores African-influenced musical cultures and practices that emerged from syncr		tices among	indigenous	s, African,	
	and European people, focusing on folkloric, ritual, and popular forms of expression	on.				
	Lottery Preference: Music majors Enrollment Limit: 25.00					
	Attributes: A: Meaning, Interpretation (Texts) Humanities Latin American, Iber	rian and	Tating Stud	ies		
	1724 001 1.0 Edwin Porras	M W	1:00PM	2:25PM	ROB200	5
MUSC	H242A The Lives of Musical Instruments: Concepts and Classifications		1,00111	2,20111	1102200	
	Ever wonder why a violin is not a fiddle or feel that traditional classifications	are inade	quate to exp	oress ALL a	musical	
	instrument is, including what they mean to you personally? This course explores th	ne numerous	s formal and	d informal	systems	
	that humans in their desire to create rational structures, have created to classif	Ty and thin	nk about mus	sical instr	ruments	
	around the world. It also explores the diversity of instrument-related philosophic					
	intellectual approaches and meanings that humans have conceived and that express t	the world's	s great cult	tural diver	rsity.	
	Enrollment Limit: 25.00					
	Attributes: A: Meaning, Interpretation (Texts) Humanities 2651 001 1.0 Edwin Porras	T Th	1:00PM	2:25PM	ROB200	6
<b>1</b> 7700		1 111	1:00PM	Z:23PM	ROBZUU	О
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 great one	a harra human	a dorri and	to loom	
	transmit, and preserve music? How have we collected and categorized music? And wha	-			•	
	era of ubiquitous data? In this course musicians and computer scientists will team	_				
	digital revolution for music: data about music, and music as data.	45 00 011	91010 00 11	o, almonolo	0110 01 0110	
	Pre-requisite(s): This course is open to students interested in music, computer so	cience or o	data science	e. Some pr	revious	
	coursework or experience with either (but not both) would be good preparation for	this cours	se. That is	s either:	a basic	
	working knowledge of musical concepts (staff notation, guitar tablature, scales an	nd keys, o	r work with	MIDI) or	some	
	familiarity with computer code (Python, XML) or data structures.	_	r 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.	_	r 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					
	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors.  Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes			MIDI) or	s some	
	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors.  Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes  Reasoning	S Data S	cience Hu	manities	Symbolic	12
	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors.  Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes  Reasoning  1613 001 1.0 Richard Freedman					12
WITSC	familiarity with computer code (Python, XML) or data structures. Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00 Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman 1666 00A .0 Richard Freedman	S Data S	cience Hu	manities	Symbolic	12 12
MUSC	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors.  Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman 1666 00A .0 Richard Freedman  H303A Advanced Tonal Harmony	Data So	cience Hun 2:30PM	manities 3:55PM	Symbolic ROB200	
MUSC	familiarity with computer code (Python, XML) or data structures. Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00 Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman 1666 00A .0 Richard Freedman	M W Brahms, Fa	cience Hun 2:30PM uré, Wolf, 1	manities 3:55PM Debussy, an	Symbolic  ROB200  and Mahler.	12
MUSC	familiarity with computer code (Python, XML) or data structures. Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00 Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman 1666 00A .0 Richard Freedman  H303A Advanced Tonal Harmony Study of late 19th-century harmonic practice in selected works of Liszt, Wagner, B	M W  Brahms, Far	2:30PM  2:40PM  aré, Wolf, I	manities 3:55PM  Debussy, and ansisting of	Symbolic  ROB200  and Mahler. E either art	12
MUSC	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors.  Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes  Reasoning  1613 001 1.0 Richard Freedman  1666 00A .0 Richard Freedman  H303A Advanced Tonal Harmony  Study of late 19th-century harmonic practice in selected works of Liszt, Wagner, B  Exploration of chromatic harmony through analysis and short compositions; final co	M W  Brahms, Far	2:30PM  2:40PM  aré, Wolf, I	manities 3:55PM  Debussy, and ansisting of	Symbolic  ROB200  and Mahler. E either art	12
MUSC	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman 1666 00A .0 Richard Freedman  1803A Advanced Tonal Harmony  Study of late 19th-century harmonic practice in selected works of Liszt, Wagner, B Exploration of chromatic harmony through analysis and short compositions; final co song or piano piece such as nocturne or intermezzo. Musicianship lab covers relate	M W  Brahms, Farange and aural are	2:30PM  2:30PM  uré, Wolf, I project cond keyboard	manities 3:55PM  Debussy, and ansisting of	Symbolic  ROB200  and Mahler. E either art	12
MUSC	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman 1666 00A .0 Richard Freedman  H303A Advanced Tonal Harmony  Study of late 19th-century harmonic practice in selected works of Liszt, Wagner, B Exploration of chromatic harmony through analysis and short compositions; final co song or piano piece such as nocturne or intermezzo. Musicianship lab covers relate Prerequisite(s): MUSC 204	M W  Brahms, Far	2:30PM  2:40PM  aré, Wolf, I	manities 3:55PM  Debussy, and ansisting of	Symbolic  ROB200  and Mahler. E either art	12
	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman 1666 00A .0 Richard Freedman  H303A Advanced Tonal Harmony  Study of late 19th-century harmonic practice in selected works of Liszt, Wagner, B Exploration of chromatic harmony through analysis and short compositions; final co song or piano piece such as nocturne or intermezzo. Musicianship lab covers relate Prerequisite(s): MUSC 204  Attributes: A: Creative Expression Humanities 1221 001 1.0 Ingrid Arauco  H480A Independent Study	M W  Brahms, Farange and aural are	2:30PM  2:30PM  uré, Wolf, I project cond keyboard	3:55PM  Debussy, and a sisting of harmony sk	Symbolic  ROB200  and Mahler. E either art	12
	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman  1666 00A .0 Richard Freedman  H303A Advanced Tonal Harmony  Study of late 19th-century harmonic practice in selected works of Liszt, Wagner, B Exploration of chromatic harmony through analysis and short compositions; final co song or piano piece such as nocturne or intermezzo. Musicianship lab covers relate Prerequisite(s): MUSC 204  Attributes: A: Creative Expression Humanities  1221 001 1.0 Ingrid Arauco  H480A Independent Study  Prerequisite(s): Approval of department and consent of instructor	M W  Brahms, Farange and aural are	2:30PM  2:30PM  uré, Wolf, I project cond keyboard	3:55PM  Debussy, and a sisting of harmony sk	Symbolic  ROB200  and Mahler. E either art	12
	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman 1666 00A .0 Richard Freedman  1666 00A .0 Richard Freedman  H303A Advanced Tonal Harmony  Study of late 19th-century harmonic practice in selected works of Liszt, Wagner, B Exploration of chromatic harmony through analysis and short compositions; final co song or piano piece such as nocturne or intermezzo. Musicianship lab covers relate Prerequisite(s): MUSC 204  Attributes: A: Creative Expression Humanities 1221 001 1.0 Ingrid Arauco  H480A Independent Study  Prerequisite(s): Approval of department and consent of instructor Attributes: Humanities	M W  Brahms, Farange and aural are	2:30PM  2:30PM  uré, Wolf, I project cond keyboard	3:55PM  Debussy, and a sisting of harmony sk	Symbolic  ROB200  and Mahler. E either art	12
	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman  1666 00A .0 Richard Freedman  H303A Advanced Tonal Harmony  Study of late 19th-century harmonic practice in selected works of Liszt, Wagner, B Exploration of chromatic harmony through analysis and short compositions; final co song or piano piece such as nocturne or intermezzo. Musicianship lab covers relate Prerequisite(s): MUSC 204  Attributes: A: Creative Expression Humanities  1221 001 1.0 Ingrid Arauco  H480A Independent Study  Prerequisite(s): Approval of department and consent of instructor Attributes: Humanities  1222 001 1.0 Ingrid Arauco	M W  Brahms, Farange and aural are	2:30PM  2:30PM  uré, Wolf, I project cond keyboard	3:55PM  Debussy, and a sisting of harmony sk	Symbolic  ROB200  and Mahler. E either art	12 6
MUSC MUSC	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman  1666 00A .0 Richard Freedman  H303A Advanced Tonal Harmony  Study of late 19th-century harmonic practice in selected works of Liszt, Wagner, B Exploration of chromatic harmony through analysis and short compositions; final co song or piano piece such as nocturne or intermezzo. Musicianship lab covers relate Prerequisite(s): MUSC 204  Attributes: A: Creative Expression Humanities  1221 001 1.0 Ingrid Arauco  H480A Independent Study  Prerequisite(s): Approval of department and consent of instructor  Attributes: Humanities  1222 001 1.0 Ingrid Arauco  1223 002 1.0 Richard Freedman	M W  Brahms, Farange and aural are	2:30PM  2:30PM  uré, Wolf, I project cond keyboard	3:55PM  Debussy, and a sisting of harmony sk	Symbolic  ROB200  and Mahler. E either art	12 6
	familiarity with computer code (Python, XML) or data structures. Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00 Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman 1666 00A .0 Richard Freedman 1666 01A .0 Richard Freedman 1666 01A .0 Richard Freedman  H303A Advanced Tonal Harmony Study of late 19th-century harmonic practice in selected works of Liszt, Wagner, B Exploration of chromatic harmony through analysis and short compositions; final co song or piano piece such as nocturne or intermezzo. Musicianship lab covers relate Prerequisite(s): MUSC 204 Attributes: A: Creative Expression Humanities 1221 001 1.0 Ingrid Arauco  H480A Independent Study Prerequisite(s): Approval of department and consent of instructor Attributes: Humanities 1222 001 1.0 Ingrid Arauco 1223 002 1.0 Richard Freedman 1224 003 1.0 Heidi Carolyn Jacob	M W  Brahms, Farange and aural are	2:30PM  2:30PM  uré, Wolf, I project cond keyboard	3:55PM  Debussy, and a sisting of harmony sk	Symbolic  ROB200  and Mahler. E either art	6 0 0 0
	familiarity with computer code (Python, XML) or data structures.  Lottery Preference: Music Majors and Minors. BMC Data Science Minors. CS Majors. Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) C: Physical and Natural Processes Reasoning  1613 001 1.0 Richard Freedman  1666 00A .0 Richard Freedman  H303A Advanced Tonal Harmony  Study of late 19th-century harmonic practice in selected works of Liszt, Wagner, B Exploration of chromatic harmony through analysis and short compositions; final co song or piano piece such as nocturne or intermezzo. Musicianship lab covers relate Prerequisite(s): MUSC 204  Attributes: A: Creative Expression Humanities  1221 001 1.0 Ingrid Arauco  H480A Independent Study  Prerequisite(s): Approval of department and consent of instructor  Attributes: Humanities  1222 001 1.0 Ingrid Arauco  1223 002 1.0 Richard Freedman	M W  Brahms, Farange and aural are	2:30PM  2:30PM  uré, Wolf, I project cond keyboard	3:55PM  Debussy, and a sisting of harmony sk	Symbolic  ROB200  and Mahler. E either art	12 6

## 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.

ubject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)						Days	Start	End	Room	Enrlo
	Enrollme	ent Limi	t: 35		rse is not oper			_	iously tak	en HC Ps	ch 217	, HC Psych	260, or B	MC Psych 21	L8
	Attribu	tes: C:	_		d Natural Proce		Natural S	cience							
		1398	001	1.0	Patrese Robin	son-					T Th	10:00AM	11:25AM	HLS108	35
					Drummer										
		2647	002		Emily Black						M W	8:30AM	9:55AM	SHA410	32
EUR	н398а	Sr The			ience										
	Sr Thesi	s Neuro 2625			Laura E. Been						F	1:30PM	3:55PM	SHA416	4
		2626	001		Rebecca Compt						r F	1:30PM	3:55PM	SHA4IO	6
		2627	002		Robert Fairma						r F	1:30PM 1:30PM	2:55PM		3
						[1									
		2628	004		Roshan Jain						F -	1:30PM	2:55PM		3
		2629	005	1.0	Patrese Robin	son-					F	1:30PM	2:55PM		5
EAC	H101A				Drummer ustice and Huma										
		ction to	the s	tudy	of peace, justi ar, and nonviol	ice and	human rigl								
		is neces	sarily		rdisciplinary.				, , , , , , , , , , , , , , , , , , , ,			,	7 7		
	Lottery	Prefere	nces:	10 se	ats for incomir	ng firs	t-year stud	dents; PJF	HR concentr	ators and	d sopho	mores.			
	Attribu	tes: A:	Meanin	g, In	terpretation ('	Texts)	B: Analy.	sis of the	e Social Wo	orld Pe	ace, Ju	stice and B	Human Righ	ts Socia	1
	Science				_		_								
		1883			Joshua Ramey						M W	11:30AM	12:55PM	HLL7	17
EAC	H116A	1883 Ethica	1 Stru		Joshua Ramey in Catastrophi	.c Time	s: Quakers	' Response	s to the		M W	11:30AM	12:55PM	HLL7	17
EAC		1883 Ethica Holoca	l Stru	ggles	in Catastrophi										
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Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	This course will use science fiction to situate contemporary problems of politic contexts. Our main aim will be to decenter some of our presuppositions about wha action ought to take. Readings include science fiction, philosophy, psychology, neuroscience, poetry, literature, gender studies, Indigenous studies, and Black texts, storytelling, worldbuilding thought experiments, political writing, and v Pre-requisite(s): PEAC 101 or 201 or consent of instructor Lottery Preference: PJHR concentrators, 7 spaces reserved for first years Enrollment Limit: 25.00  Attributes: A: Meaning, Interpretation (Texts) Humanities Peace, Justice and 2709 001 1.0 Jill Stauffer	t form poli anthropolog studies. As isual argum	tical writi y, politica signments i ent.	ng, persuas l science,	sion, and	14
PEAC	H244A Our Americas: Imagining the Hemisphere This course focuses on theorists of culture and society across the Americas, as twentieth-century literature, considering interventions from Caribbean, Latin Am novels, memoir, travel writing and poetry, we'll theorize the structures of hemi line, slavery and the plantation, settler colonialism, labor and migration, trav create a shared hemispheric history? Crosslisted: PEAC, COML Pre-requisite(s): One course involving literary analysis. Enrollment Limit: 20.00 Attributes: A: Meaning, Interpretation (Texts) Humanities Peace, Justice and	well as maj erican, and spheric lif el and tran Human Righ	or genres o North Amer e: how did sit, and wa	f nineteend ican figure race and th r and imper	ch- and ess. Reading ee color rialism	3
PEAC	H298A Impact Investing Impact investing is investing to generate both a financial return and a positive to address social, environmental and /or governance problems (ESG) in a sustaina focus of this course is to not only gain an understanding of the theory and prac components, but also to gain practical experience by assessing a particular set formal presentations of findings to an investment committee leading to a recomme foundation.  Crosslisted: Economics, Independent College Programs, PJHR  Prerequisite(s): ECON 104 or 105 or 106  Enrollment Limit: 16  Attributes: B: Analysis of the Social World Peace, Justice and Human Rights  World Peace, Justice and Human Rights Social Science  2433 001 1.0 Shannon B. Mudd	ble way oft tice of imp of potentia ndation for Social Scie	en within mact investil impact in investment  ence B: An 2:30PM	arket activing across sestments, to a partral alysis of a 3:25PM	rity. The ts many making hering	1
PEAC	H305A Debt, Justice, and Sovereignty Global indebtedness has reached astronomical and obscene proportions, and vast nenslaved to debt. This course examines the history of debt politics and the rol justice and sovereignty, in both pre-capitalist and capitalist societies. Parti debates in the theory of money, and on the ambiguous and fraught relations betwe will be given to arguments for debt resistance politics as a strategy of emancip neoliberal ideology, extreme wealth inequality, and environmental destruction, s effects and causes of power relations enabling some to maintain perpetual credit foreclosed by the requirement that they pay their debts.  Crosslisted: no Prerequisite(s): PEAC 101 or PEAC 201 or consent of instructor Enrollment Limit: 15 Lottery Preference(s): PJHR concentrators, then juniors and seniors, then all st Attributes: A: Meaning, Interpretation (Texts) Humanities Peace, Justice and 2719 001 1.0 Joshua Ramey	e of credit cular focus en money an ation and dince these worthiness	and debt i will be pl d credit. emocratizat forces are while most	n struggles aced on cor Special cor ion in the arguably bo	s for ntemporary nsideration context of oth the	

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ubject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl
EAC	H319A Human Rights in Philadelphia and Pennsylvania-In National and Global Context					
	This course considers human rights as moral aspirations and as interdependent ex on student internships with social sector organizations in Philadelphia and thro relationship between social issues and policy structures.  Prerequisite(s): An internship through the Center for Peace and Global Citizensh involved in other forms of sustained community engagement and/or activism.	oughout the C	Jnited State	es, to inte	rrogate the	-
	Enrollment Limit: 25					
	Lottery Preference(s): Returning CPGC Interns Attributes: B: Analysis of the Social World Peace, Justice and Human Rights 1668 001 1.0 Eric Hartman	Social Scien F	nce 11:00AM	1:25PM	VCAM201	3
EAC	H395A Capstone in Peace, Justice and Human Rights This capstone course consolidates student experience of a program that integrate research, and policy perspectives. It incorporates research assignments, collaborates on student work in the concentration. For PJHR senior concentrators. Enrollment Limit: 12 Lottery Preference: PJHR concentrators only Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World	oration, a co		resentatior	and a	
	Rights 1502 001 1.0 Jill Stauffer	F	1:30PM	3:55PM	LUT211	4
	An exploration of selected texts on ethics in a global context. This course seek	es to downlar	n a dlohal r	nerspective	on human	
	values through a critical exploration of vital texts on ethics across diverse ph on the challenge of articulating global ethics and global values across cultures global norms valid for diverse worldviews? Is there a global foundation for ethi we think critically across and between diverse worldviews and perspectives? A cominor credit.  Enrollment Limit: 25 Lottery Preference(s): 5 seats reserved for incoming freshmen.  Attributes: A: Meaning, Interpretation (Texts) Humanities  2558 001 1.0 Ashok K Gangadean	nilosophical s, worldviews .cs? Are then	traditions s, and trad re universal	. A central itions. Are l human rig	focus is there hts? How do	22
·HIL	values through a critical exploration of vital texts on ethics across diverse ph on the challenge of articulating global ethics and global values across cultures global norms valid for diverse worldviews? Is there a global foundation for ethi we think critically across and between diverse worldviews and perspectives? A cominor credit.  Enrollment Limit: 25 Lottery Preference(s): 5 seats reserved for incoming freshmen.  Attributes: A: Meaning, Interpretation (Texts) Humanities	T Th  ess is or int and exerciseding the vir	traditions s, and traditions re universal bal Philosop  2:30PM  volves leading se of certain rtues and the	A central itions. Are human rigohy, not for a flour in states cheir interm	focus is there thts? How do r major or GST101	
PHIL	<pre>values through a critical exploration of vital texts on ethics across diverse ph on the challenge of articulating global ethics and global values across cultures global norms valid for diverse worldviews? Is there a global foundation for ethi we think critically across and between diverse worldviews and perspectives? A co minor credit. Enrollment Limit: 25 Lottery Preference(s): 5 seats reserved for incoming freshmen. Attributes: A: Meaning, Interpretation (Texts) Humanities</pre>	T Th  ess is or invaliding the viruse. Readings for the standard was and exercised and the viruse. The standard was a standard what relations to these quantities to the sequence of t	traditions s, and traditions s, and traditions s, and traditions re universal pal Philosop  2:30PM  volves lead se of certain rtues and the from classic  10:00AM  lationship of sprojects rues in the will be as	3:55PM  ing a flour in states coneir interrect and contesting the best of the histors keed to this contesting to the histors where the histors where the history are the history where the history was a contesting to the history where the history was a contesting to the history where the history was a contesting to the history where the history was a contesting to the history was a contesting to the history where the history was a contesting to the histor	GST101  GST101	22

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl
	An introduction to continental philosophy during the 20th century, with a focus the question, "How does the philosophy of existence pose challenges to our unde Prerequisite(s): 100-level philosophy course or instructor permission.				l explore	
	Attributes: A: Meaning, Interpretation (Texts) Humanities 2559 001 1.0 Qrescent Mali Mason	M W	11:30AM	12:55PM	UN111	10
HIL	H254A Metaphysics: Global Ontology A critical examination of philosophical accounts of reality and being. Special formed and transformed: an ontological exploration of diverse alternative categorates Metaphysical narratives of diverse thinkers in the evolution of the European transcription. Heraclitus, Plato, Aristotle, Descartes, Spinoza, Kant, Heidegger, Whitehead in Global Philosophy, not for major or minor credit.  Enrollment Limit: 30 Attributes: A: Meaning, Interpretation (Texts) Humanities	gorical framew radition are e	works for ex explored in	perience. global cont	text.	
	2560 001 1.0 Ashok K Gangadean	T Th	11:30AM	12:55PM	GST101	30
	An introduction to key readings in 20th century continental philosophy in the a deconstruction. Of primary importance will be issues of language, meaning, and Althusser, Foucault, Derrida, Kristeva, and Jameson.  Pre-requisites:one 100-level Philosophy course and Sophomore, Junior or Senior Attributes: A: Meaning, Interpretation (Texts) Humanities	representation	•			
	2561 001 1.0 Jerry Miller	M W	1:00PM	2:25PM	HLL106	14
PHIL:	H261A Experience, Know-How, and Skilled Coping					
PHIL	H261A Experience, Know-How, and Skilled Coping An investigation of three debates concerning the character of experiential know expertise? Is it required for the acquisition of expertise? (2) What is the diff and how are they related? (3) What is the phenomenology of skillful behavior?  Attributes: A: Meaning, Interpretation (Texts) Humanities  2562 001 1.0 Joel Yurdin		-			7
	An investigation of three debates concerning the character of experiential know expertise? Is it required for the acquisition of expertise? (2) What is the diff and how are they related? (3) What is the phenomenology of skillful behavior? Attributes: A: Meaning, Interpretation (Texts) Humanities	T Th  modern philos g influential cal genres. T	1:00PM sophical the letters and This course	2:25PM  ught. Despit publishing seeks to re	ite social	
PHIL	An investigation of three debates concerning the character of experiential know expertise? Is it required for the acquisition of expertise? (2) What is the diff and how are they related? (3) What is the phenomenology of skillful behavior?  **Attributes: A: Meaning, Interpretation (Texts) Humanities  **2562 001 1.0 Joel Yurdin**  **H262A Women and Philosophy in the Early Modern Era  **Women played an important yet often neglected role in the development of early barriers, they remained at the center of philosophical conversations by writing philosophical novels, plays, and poems, in addition to more standard philosophi women's voices from 17th-19th century European philosophy. We will cover various with a special focus on early modern feminism.  **Pre-requisite(s): One 100-level course in Philosophy **Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies**	T Th  modern philos g influential cal genres. T as topics (min  Humanities T Th  pics include: conceptions of	1:00PM  sophical the letters and This course ad/body, edu  11:30AM  skepticism of freedom a	2:25PM  rught. Despit publishing seeks to recation, has 12:55PM  and the limit and determined the control of th	ite social gevive opiness),  UN114	7

This course examines the concept of inheritance as a transfer of physical, social, linguistic, economic and behavioral capacities. Inheritance is unique, as Kant notes, as a transfer or gift that typically cannot be refused. Despite being involuntary recipients of our inherited capacities, we often imagine our having intentionally developed and earned them, whether advantageous or disadvantageous. By examining theories of how inheritances proceed across and through individuals and groups, especially via relations thought inheritably impotent (e.g., race and queerness), we will contemplate these

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Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrlo
	movements as ethical genealogies, that is, as historical transfers of value (econ	nomic, socia	l, disposit	ional) that	configure	!
	recognition of our embodied selves.	•			,	
	Attributes: A: Meaning, Interpretation (Texts) Humanities					
	2564 001 1.0 Jerry Miller	M W	2:30PM	3:55PM	HLL106	5
PHIL	H399A Senior Seminar					
	This course has several components: (a) participation in the Altherr Symposium, i	_		_		
	preparation for the symposium, (b) participation in the Distinguished Visitors se				thesis,	
	and (d) presentation of one's work for critical discussion with others in the sem	unar, as we	ll as a fin	al formal		
	presentation.					
	Attributes: Humanities 1390 001 1.0 Danielle Macbeth	F	1:30PM	3:55PM	VCAM102	7
PHIL	H407A Discussion Leaders	г	1:30FM	3:33FM	VCAM102	
PHIL	Attributes: Humanities					
	2565 001 .5 Joel Yurdin	T Th	10:00AM	11:25AM		0
PHYS	H101A Classical and Modern Physics I	1 111	10.001111	11.201111		
	Three class hours and one laboratory period. The first of a two-semester comprehe	ensive intro	duction to	physics. wi	th an	
	emphasis on life science applications involving Newtonian mechanics, oscillations					
	thermal physics.			, ======		
	Prerequisite(s): Calculus at the level of MATH H105 or equivalent should be taken	prior to o	r concurren	tly with th	nis course	
	Enrollment Limit: 72	_		_		
	Attributes: C: Physical and Natural Processes Natural Science Quantitative					
	1304 001 1.0 Kazi Tawhid-Al-Islam	M W F	11:30AM	12:25PM	SHAAUD	32
	1308 00A .0 Suzanne Amador Kane	T	1:30PM	3:55PM	HLS105	8
	1309 00B .0 TBA Department staff	M	1:30PM	3:55PM	HLS105	19
	1310 00C .O TBA Department staff	Th	1:30PM	3:55PM	HLS105	5
PHYS	H105A Fundamental Physics I					
	Three class hours and one laboratory period. Newtonian mechanics and thermodynami					
			for atudont	s intereste	od in the	
	the physical sciences. This sequence (105/106) is meant as a one-year introduction	n suitable	IOI Student	.b incerebec	ed III tile	
	physical sciences.	n suitable :	ioi student	.0 1110010000	ed III the	
	physical sciences.  Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently)	on suitable	ioi student	.o inceres co	ed III CHE	
	physical sciences. Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently) Enrollment Limit: 72	on sultable	ioi student	o incoros	ed III the	
	physical sciences.  Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently)  Enrollment Limit: 72  Attributes: C: Physical and Natural Processes Natural Science Quantitative					20
	physical sciences. Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently) Enrollment Limit: 72 Attributes: C: Physical and Natural Processes Natural Science Quantitative 1305 001 1.0 Islam Khan	M W F	11:30AM	12:25PM	HLS108	20
	physical sciences. Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently) Enrollment Limit: 72 Attributes: C: Physical and Natural Processes Natural Science Quantitative 1305 001 1.0 Islam Khan 1311 00A .0 Suzanne Amador Kane	M W F	11:30AM 1:30PM	12:25PM 3:55PM	HLS108 HLS105	6
	physical sciences. Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently) Enrollment Limit: 72 Attributes: C: Physical and Natural Processes Natural Science Quantitative 1305 001 1.0 Islam Khan 1311 00A .0 Suzanne Amador Kane 1312 00B .0 Suzanne Amador Kane	MWF T W	11:30AM 1:30PM 1:30PM	12:25PM 3:55PM 3:55PM	HLS108 HLS105 HLS105	6 11
	physical sciences. Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently) Enrollment Limit: 72 Attributes: C: Physical and Natural Processes Natural Science Quantitative 1305 001 1.0 Islam Khan 1311 00A .0 Suzanne Amador Kane 1312 00B .0 Suzanne Amador Kane 1313 00C .0 Suzanne Amador Kane	M W F	11:30AM 1:30PM	12:25PM 3:55PM	HLS108 HLS105	6
PHYS	physical sciences. Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently) Enrollment Limit: 72 Attributes: C: Physical and Natural Processes Natural Science Quantitative 1305 001 1.0 Islam Khan 1311 00A .0 Suzanne Amador Kane 1312 00B .0 Suzanne Amador Kane 1313 00C .0 Suzanne Amador Kane 1314 Fundamental Physics II	M W F T W Th	11:30AM 1:30PM 1:30PM 1:30PM	12:25PM 3:55PM 3:55PM 3:55PM	HLS108 HLS105 HLS105 HLS105	6 11
PHYS	physical sciences.  Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently)  Enrollment Limit: 72  Attributes: C: Physical and Natural Processes Natural Science Quantitative  1305 001 1.0 Islam Khan  1311 00A .0 Suzanne Amador Kane  1312 00B .0 Suzanne Amador Kane  1313 00C .0 Suzanne Amador Kane  H106A Fundamental Physics II  Electricity and magnetism, optics, electronics and special relativity. Applicatio	M W F T W Th	11:30AM 1:30PM 1:30PM 1:30PM	12:25PM 3:55PM 3:55PM 3:55PM	HLS108 HLS105 HLS105 HLS105	6 11
PHYS	physical sciences.  Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently)  Enrollment Limit: 72  Attributes: C: Physical and Natural Processes Natural Science Quantitative  1305 001 1.0 Islam Khan  1311 00A .0 Suzanne Amador Kane  1312 00B .0 Suzanne Amador Kane  1313 00C .0 Suzanne Amador Kane  H106A Fundamental Physics II  Electricity and magnetism, optics, electronics and special relativity. Applicatio sciences. This sequence (105/106) is meant as a one -year introduction suitable f	M W F T W Th	11:30AM 1:30PM 1:30PM 1:30PM	12:25PM 3:55PM 3:55PM 3:55PM	HLS108 HLS105 HLS105 HLS105	6 11
PHYS	physical sciences.  Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently)  Enrollment Limit: 72  Attributes: C: Physical and Natural Processes Natural Science Quantitative  1305 001 1.0 Islam Khan  1311 00A .0 Suzanne Amador Kane  1312 00B .0 Suzanne Amador Kane  1313 00C .0 Suzanne Amador Kane  H106A Fundamental Physics II  Electricity and magnetism, optics, electronics and special relativity. Applicatio sciences. This sequence (105/106) is meant as a one -year introduction suitable f sciences. Three class hours and one laboratory period.	M W F T W Th	11:30AM 1:30PM 1:30PM 1:30PM	12:25PM 3:55PM 3:55PM 3:55PM	HLS108 HLS105 HLS105 HLS105	6 11
PHYS	physical sciences.  Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently)  Enrollment Limit: 72  Attributes: C: Physical and Natural Processes Natural Science Quantitative  1305 001 1.0 Islam Khan  1311 00A .0 Suzanne Amador Kane  1312 00B .0 Suzanne Amador Kane  1313 00C .0 Suzanne Amador Kane  H106A Fundamental Physics II  Electricity and magnetism, optics, electronics and special relativity. Applicatio sciences. This sequence (105/106) is meant as a one -year introduction suitable f	M W F T W Th	11:30AM 1:30PM 1:30PM 1:30PM	12:25PM 3:55PM 3:55PM 3:55PM	HLS108 HLS105 HLS105 HLS105	6 11
PHYS	physical sciences.  Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently)  Enrollment Limit: 72  Attributes: C: Physical and Natural Processes Natural Science Quantitative  1305 001 1.0 Islam Khan  1311 00A .0 Suzanne Amador Kane  1312 00B .0 Suzanne Amador Kane  1313 00C .0 Suzanne Amador Kane  H106A Fundamental Physics II  Electricity and magnetism, optics, electronics and special relativity. Applicatio sciences. This sequence (105/106) is meant as a one -year introduction suitable f sciences. Three class hours and one laboratory period.  Prerequisite(s): MATH H118 and PHYS H105 or equivalent	M W F T W Th	11:30AM 1:30PM 1:30PM 1:30PM	12:25PM 3:55PM 3:55PM 3:55PM	HLS108 HLS105 HLS105 HLS105	6 11
PHYS	physical sciences.  Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently)  Enrollment Limit: 72  Attributes: C: Physical and Natural Processes Natural Science Quantitative  1305 001 1.0 Islam Khan  1311 00A .0 Suzanne Amador Kane  1312 00B .0 Suzanne Amador Kane  1313 00C .0 Suzanne Amador Kane  H106A Fundamental Physics II  Electricity and magnetism, optics, electronics and special relativity. Applicatio sciences. This sequence (105/106) is meant as a one -year introduction suitable f sciences. Three class hours and one laboratory period.  Prerequisite(s): MATH H118 and PHYS H105 or equivalent Enrollment Limit: 72	M W F T W Th	11:30AM 1:30PM 1:30PM 1:30PM	12:25PM 3:55PM 3:55PM 3:55PM	HLS108 HLS105 HLS105 HLS105	6 11
рнүѕ	physical sciences.  Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently)  Enrollment Limit: 72  Attributes: C: Physical and Natural Processes Natural Science Quantitative  1305 001 1.0 Islam Khan  1311 00A .0 Suzanne Amador Kane  1312 00B .0 Suzanne Amador Kane  1313 00C .0 Suzanne Amador Kane  H106A Fundamental Physics II  Electricity and magnetism, optics, electronics and special relativity. Applicatio sciences. This sequence (105/106) is meant as a one -year introduction suitable f sciences. Three class hours and one laboratory period.  Prerequisite(s): MATH H118 and PHYS H105 or equivalent  Enrollment Limit: 72  Attributes: C: Physical and Natural Processes Natural Science Quantitative	M W F T W Th ons are draw. For students	11:30AM 1:30PM 1:30PM 1:30PM n primarily interested	12:25PM 3:55PM 3:55PM 3:55PM 7 from the phy	HLS108 HLS105 HLS105 HLS105 Dhysical	6 11 3
рнүѕ	physical sciences.  Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently)  Enrollment Limit: 72  Attributes: C: Physical and Natural Processes Natural Science Quantitative  1305 001 1.0 Islam Khan  1311 00A .0 Suzanne Amador Kane  1312 00B .0 Suzanne Amador Kane  1313 00C .0 Suzanne Amador Kane  H106A Fundamental Physics II  Electricity and magnetism, optics, electronics and special relativity. Applicatio sciences. This sequence (105/106) is meant as a one -year introduction suitable f sciences. Three class hours and one laboratory period.  Prerequisite(s): MATH H118 and PHYS H105 or equivalent  Enrollment Limit: 72  Attributes: C: Physical and Natural Processes Natural Science Quantitative  1327 001 1.0 Monica Ripp	M W F T W Th ons are draw. For students	11:30AM 1:30PM 1:30PM 1:30PM n primarily interested	12:25PM 3:55PM 3:55PM 3:55PM 7 from the phy 1 in the phy	HLS108 HLS105 HLS105 HLS105 Physical rsical	6 11 3
PHYS	physical sciences. Prerequisite(s): MATH 118 or equivalent (MATH 118 may be taken concurrently) Enrollment Limit: 72 Attributes: C: Physical and Natural Processes Natural Science Quantitative 1305 001 1.0 Islam Khan 1311 00A .0 Suzanne Amador Kane 1312 00B .0 Suzanne Amador Kane 1313 00C .0 Suzanne Amador Kane 1316 Fundamental Physics II Electricity and magnetism, optics, electronics and special relativity. Application sciences. This sequence (105/106) is meant as a one -year introduction suitable for sciences. Three class hours and one laboratory period. Prerequisite(s): MATH H118 and PHYS H105 or equivalent Enrollment Limit: 72 Attributes: C: Physical and Natural Processes Natural Science Quantitative 1327 001 1.0 Monica Ripp 1529 00A .0 Suzanne Amador Kane	M W F T W Th ons are draw. For students M W F T	11:30AM 1:30PM 1:30PM 1:30PM n primarily interested 11:30AM 1:30PM	12:25PM 3:55PM 3:55PM 3:55PM 7 from the phy 1 in the phy 12:25PM 3:55PM	HLS108 HLS105 HLS105 HLS105 Physical vsical	6 11 3

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	Cat Nbr ClNbr Sctn Crd Instructor(s)	D	ays	Start	End	Room	Enrld
	The first half of this laboratory is an introduction to analog	electronics and instrume	entatio	on. The sec	ond half i	ncludes	
	experiments in waves and optics.						
	Prerequisite(s): PHYS H213 must either be taken concurrently or	as a prerequisite					
	Enrollment Limit: 16						
	Lottery Preference(s):						
	1. Physics, astrophysics or astronomy majors						
	2. Sophomores						
	3. Physics & astronomy minors						
	4. First-years						
	Attributes: Biophysics C: Physical and Natural Processes Na	atural Science					
	1353 001 .5 Suzanne Amador Kane	W		1:30PM	3:55PM	HLS206	15
	1354 002 .5 Kazi Tawhid-Al-Islam		h	1:30PM	3:55PM	HLS206	12
IYS		1	11	1.30111	3.33111	11110200	12
115	The state of the s						
	Vibrations and waves in mechanical, electronic, and optical sys						
	such as functions of a complex variable and Fourier analysis. I	-					
	superposition, coupled oscillators and normal modes, traveling				-		
	interference, and diffraction. PHYS H211, a related laboratory	nali-course, is normally	, taker	concurren	itly and is	requirea	
	for majors.						
	Prerequisite(s): PHYS H106 and MATH H118 or equivalent						
	Enrollment Limit: 30						
	Lottery Preference(s):						
	1. Physics, astrophysics or astronomy majors						
	2. Sophomores						
	3. Physics & astronomy minors						
	4. First-years						
	$\lambda$ ttributos: Diophysias C: Dhysiasl and Natural Drogossos $N$		ative				
	Attributes: Biophysics C: Physical and Natural Processes Na			1000000		0.00	0.0
	1306 001 1.0 Andrea N. Lommen		W	10:00AM	11:25AM	OBS	26
HYS	H303A Statistical Physics	М	W				
HYS	1306 001 1.0 Andrea N. Lommen	М	W				
HYS	H303A Statistical Physics Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the	istics and ensembles to	derive	the laws	of thermod	ynamics and	
HYS	1306 001 1.0 Andrea N. Lommen  H303A Statistical Physics  Treatment of many body systems using classical and quantum state	istics and ensembles to	derive	the laws	of thermod	ynamics and	
HYS	H303A Statistical Physics Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the	istics and ensembles to	derive	the laws	of thermod	ynamics and	
нүѕ	H303A Statistical Physics Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems.	istics and ensembles to	derive	the laws	of thermod	ynamics and	
iys	H303A Statistical Physics Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems. Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306	istics and ensembles to thermal properties of r	derive	the laws	of thermod	ynamics and	
iys	H303A Statistical Physics Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems. Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30	istics and ensembles to thermal properties of returnal Science	derive	the laws	of thermod	ynamics and	
	H303A Statistical Physics Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems. Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30 Attributes: Biophysics C: Physical and Natural Processes National Course includes Natural Processes National Course includes Natural Processes Nature 1.001 1.0 Karen L. Masters	istics and ensembles to thermal properties of returnal Science	derive	e the laws (solids, l	of thermod iquids and	ynamics and gases),	l
	H303A Statistical Physics Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems. Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30 Attributes: Biophysics C: Physical and Natural Processes Na 2517 001 1.0 Karen L. Masters  H325A Advanced Topics in Theoretical Physics	Eistics and ensembles to thermal properties of restural Science	derive	e the laws (solids, l	of thermod iquids and	ynamics and gases), HLS108	l
	H303A Statistical Physics Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems. Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30 Attributes: Biophysics C: Physical and Natural Processes Na 2517 001 1.0 Karen L. Masters  H325A Advanced Topics in Theoretical Physics An introductory course in general relativity with an emphasis of	istics and ensembles to thermal properties of relatural Science  Mon physical principles ar	derive	e the laws (solids, 1	of thermodiquids and	ynamics and gases),  HLS108	l
	H303A Statistical Physics Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems. Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30 Attributes: Biophysics C: Physical and Natural Processes Na 2517 001 1.0 Karen L. Masters  H325A Advanced Topics in Theoretical Physics An introductory course in general relativity with an emphasis of Topics include special relativity, the calculus of variations,	istics and ensembles to thermal properties of restural Science  on physical principles and metrics, tensors, paralle	derive	9:30AM  desics in counsport, co	of thermod iquids and 10:25AM curved space ovariant de	ynamics and gases),  HLS108  etime. rivatives,	l
	H303A Statistical Physics  Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems.  Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30  Attributes: Biophysics C: Physical and Natural Processes Na 2517 001 1.0 Karen L. Masters  H325A Advanced Topics in Theoretical Physics  An introductory course in general relativity with an emphasis of Topics include special relativity, the calculus of variations, geodesics, the equivalence principle, gravitational redshift, to	istics and ensembles to thermal properties of restural Science  on physical principles are metrics, tensors, paraliche static weak-field met	derive	9:30AM  desics in counsport, coun	of thermod iquids and 10:25AM curved space examinat described met	ynamics and gases),  HLS108  etime. rivatives,	l
	H303A Statistical Physics Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems.  Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30  Attributes: Biophysics C: Physical and Natural Processes Na 2517 001 1.0 Karen L. Masters  H325A Advanced Topics in Theoretical Physics An introductory course in general relativity with an emphasis of Topics include special relativity, the calculus of variations, geodesics, the equivalence principle, gravitational redshift, the describing spacetime outside of a black holes or star, the precedence of the process of the precedence of the preceden	istics and ensembles to thermal properties of restural Science  on physical principles and metrics, tensors, paralliche static weak-field metression of planetary orbitalistics.	derive	9:30AM  desics in comport, com	of thermodiquids and  10:25AM  curved space examinated aschild metang of light	ynamics and gases),  HLS108  etime. rivatives, ric t by	l
	H303A Statistical Physics  Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems.  Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30  Attributes: Biophysics C: Physical and Natural Processes Na 2517 001 1.0 Karen L. Masters  H325A Advanced Topics in Theoretical Physics  An introductory course in general relativity with an emphasis of Topics include special relativity, the calculus of variations, geodesics, the equivalence principle, gravitational redshift, the describing spacetime outside of a black holes or star, the precomassive objects. Additional topics may include applications to	istics and ensembles to thermal properties of restural Science  on physical principles and metrics, tensors, paralliche static weak-field metrosion of planetary orbitating black holes, gr	derive	9:30AM  desics in comport, com	of thermodiquids and  10:25AM  curved space examinated aschild metang of light	ynamics and gases),  HLS108  etime. rivatives, ric t by	l
HYS HYS	H303A Statistical Physics  Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems.  Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30  Attributes: Biophysics C: Physical and Natural Processes Na 2517 001 1.0 Karen L. Masters  H325A Advanced Topics in Theoretical Physics  An introductory course in general relativity with an emphasis of Topics include special relativity, the calculus of variations, geodesics, the equivalence principle, gravitational redshift, the describing spacetime outside of a black holes or star, the precomassive objects. Additional topics may include applications to Hawking radiation. Prerequisites: Phys H213 or PHYS B205 and B2	istics and ensembles to thermal properties of restural Science  on physical principles and metrics, tensors, parallable static weak-field metrosession of planetary orbations black holes, grants.	derive	9:30AM  desics in comport, com	of thermodiquids and  10:25AM  curved space examinated aschild metang of light	ynamics and gases),  HLS108  etime. rivatives, ric t by	l
	H303A Statistical Physics  Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems.  Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30  Attributes: Biophysics C: Physical and Natural Processes Na 2517 001 1.0 Karen L. Masters  H325A Advanced Topics in Theoretical Physics  An introductory course in general relativity with an emphasis of Topics include special relativity, the calculus of variations, geodesics, the equivalence principle, gravitational redshift, the describing spacetime outside of a black holes or star, the precomassive objects. Additional topics may include applications to Hawking radiation. Prerequisites: Phys H213 or PHYS B205 and B2 Attributes: C: Physical and Natural Processes Natural Sciences	istics and ensembles to thermal properties of restural Science  on physical principles and metrics, tensors, parallable static weak-field metrosession of planetary orbations black holes, grants.	derive	9:30AM  9:30AM  desics in comport, comp	of thermod iquids and 10:25AM curved space examinant deschild metago of lightes, cosmological co	ynamics and gases),  HLS108  etime. rivatives, ric t by gy, or	34
HYS	H303A Statistical Physics  Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems.  Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30  Attributes: Biophysics C: Physical and Natural Processes Na 2517 001 1.0 Karen L. Masters  H325A Advanced Topics in Theoretical Physics  An introductory course in general relativity with an emphasis of Topics include special relativity, the calculus of variations, geodesics, the equivalence principle, gravitational redshift, the describing spacetime outside of a black holes or star, the precedence objects. Additional topics may include applications to Hawking radiation. Prerequisites: Phys H213 or PHYS B205 and B2 Attributes: C: Physical and Natural Processes Natural Science 2623 001 1.0 Daniel Grin	istics and ensembles to thermal properties of restural Science  on physical principles and metrics, tensors, parallable static weak-field metrosession of planetary orbations black holes, grants.	derive	9:30AM  desics in comport, com	of thermodiquids and  10:25AM  curved space examinated aschild metang of light	ynamics and gases),  HLS108  etime. rivatives, ric t by	l
	H303A Statistical Physics  Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems.  Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30  Attributes: Biophysics C: Physical and Natural Processes Na 2517 001 1.0 Karen L. Masters  H325A Advanced Topics in Theoretical Physics  An introductory course in general relativity with an emphasis of Topics include special relativity, the calculus of variations, geodesics, the equivalence principle, gravitational redshift, the describing spacetime outside of a black holes or star, the precent massive objects. Additional topics may include applications to Hawking radiation. Prerequisites: Phys H213 or PHYS B205 and B2 Attributes: C: Physical and Natural Processes Natural Science 2623 001 1.0 Daniel Grin  H326A Advanced Physics Laboratory	istics and ensembles to thermal properties of restural Science  In physical principles and metrics, tensors, parallable static weak-field metropersion of planetary orbits rotating black holes, grant of the static weak-field metropersion of planetary orbits rotating black holes, grant orbits of the static weak-field metropersion of planetary orbits rotating black holes, grant orbits of the static weak-field metropersion of planetary orbits orbits orbits orbits or the static weak-field metropersion of planetary orbits orbits orbits or the static weak-field metropersion of planetary orbits orb	derive	9:30AM  9:30AM  desics in comport, comp	of thermodiquids and  10:25AM  curved space examination described metalogical metalogical metalogical cosmological cosmological described as a	ynamics and gases),  HLS108  etime. rivatives, ric t by gy, or  HLS109	34
YYS	H303A Statistical Physics  Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems.  Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30  Attributes: Biophysics C: Physical and Natural Processes Na 2517 001 1.0 Karen L. Masters  H325A Advanced Topics in Theoretical Physics  An introductory course in general relativity with an emphasis of Topics include special relativity, the calculus of variations, geodesics, the equivalence principle, gravitational redshift, the describing spacetime outside of a black holes or star, the precedence objects. Additional topics may include applications to Hawking radiation. Prerequisites: Phys H213 or PHYS B205 and B2 Attributes: C: Physical and Natural Processes Natural Science 2623 001 1.0 Daniel Grin  H326A Advanced Physics Laboratory  Design, execution, and analysis of significant experiments, incomparison.	istics and ensembles to thermal properties of restural Science  on physical principles and metrics, tensors, parallable static weak-field metropersion of planetary orbits rotating black holes, grant control of the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion of planetary orbits rotating black holes, grant for the static weak-field metropersion orbits rotating black holes, grant for the static weak-field metropersion orbits rotating black holes, grant for the static weak-field metropersion orbits rotating black holes, grant for the static weak-field metropersion orbits rotating black holes, grant for the static weak-field metropersion orbits rotating black holes, grant for the static weak-field metropersion orbits rotating for the static weak-field metrop	derive natter  W F  Ind geod lel tra tric, tits and travitat  Th	9:30AM  9:30AM  desics in comport, comp	of thermod iquids and 10:25AM curved space examinated exchild metang of lighter, cosmologies, co	ynamics and gases),  HLS108  etime. rivatives, ric t by gy, or  HLS109  as low-	34
YYS	H303A Statistical Physics  Treatment of many body systems using classical and quantum stat statistical mechanics. This course includes applications to the photon, and phonon systems.  Prerequisite(s): PHYS H214 and either PHYS H213 or PHYS B306 Enrollment Limit: 30  Attributes: Biophysics C: Physical and Natural Processes Na 2517 001 1.0 Karen L. Masters  H325A Advanced Topics in Theoretical Physics  An introductory course in general relativity with an emphasis of Topics include special relativity, the calculus of variations, geodesics, the equivalence principle, gravitational redshift, the describing spacetime outside of a black holes or star, the precent massive objects. Additional topics may include applications to Hawking radiation. Prerequisites: Phys H213 or PHYS B205 and B2 Attributes: C: Physical and Natural Processes Natural Science 2623 001 1.0 Daniel Grin  H326A Advanced Physics Laboratory	istics and ensembles to thermal properties of restural Science  In physical principles and metrics, tensors, parallocates the static weak-field metrics and properties of planetary orbits and protections of planetary orbits and protections.  It is the static weak or parallocate t	derivenatter  W F  Ind geod Lel tra  Lel tric, the contract of	9:30AM  9:30AM  desics in consport,	of thermod iquids and 10:25AM curved space examinated exchild metang of light expectations, cosmologies, cosm	ynamics and gases),  HLS108  etime. rivatives, ric t by gy, or  HLS109  as low- e from year	34

technologies, and chaotic dynamics.

Prerequisite(s): PHYS H301, PHYS 214 and either PHYS H213 or PHYS B306

	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrl
	Enrollment Limit: 14					
	Lottery Preference(s):					
	1. Physics, astrophysics & astronomy majors					
	2. Physics & astronomy minors					
	Attributes: C: Physical and Natural Processes Natural Science					
	1315 001 1.0 Paul Thorman	M F	1:15PM	3:55PM	HLS106	0
PHYS	H351D Topics in Astrophysics: Gravitational Waves					
	This course explores the new field of Gravitational Wave Astrophysics from the					
	cosmic microwave background) to the high frequencies that LIGO has discovered.					
	gravitational wave detector, and the planned space-based detector LISA. We wil					
	work together to explore the relatively unexplored gravitational wave universe	. You will	learn some o	of the basi	cs of	
	general relativity.					
	Crosslisted: PHYS.					
	Pre-requisite(s): PHY213 and PHY214 or permission of the instructor.					2
PHYS	H399F Senior Seminar					
FHIS	A capstone experience for seniors in physics and astrophysics meeting biweekly	throughout t	he wear An	introducti	on to	
	scientific writing and speaking; scientific ethics; graduate study in physics	-	_			
	astronomy majors, both within the field and outside science; preparation and p					
	attendance at lectures by distinguished visitors; and discussions of student a				iioquia,	
	department. This course is graded universal P/F in which no numerical grade is	_	scarch proje	LCCD III CIIC		
	Prerequisite(s): Senior standing in physics or astrophysics	assignea.				
	Enrollment Limit: 30					
	1307 001 .5 Daniel Grin	W	1:30PM	3:55PM	HLS109	19
PHYS	1307 001 .5 Daniel Grin	W	1:30PM	3:55PM	HLS109	19
PHYS	1307 001 .5 Daniel Grin					19
PHYS	H404A Research in Astrophysics					19
PHYS	1307 001 .5 Daniel Grin  H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro					19
PHYS	1307 001 .5 Daniel Grin  H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member.					19
PHYS	1307 001 .5 Daniel Grin  H404A Research in Astrophysics  Intended for those students who choose to complete an independent research pro a faculty member.  Prerequisite(s): Instructor consent					19
PHYS	1307 001 .5 Daniel Grin  H404A Research in Astrophysics  Intended for those students who choose to complete an independent research pro a faculty member.  Prerequisite(s): Instructor consent Enrollment Limit: 12					19
PHYS	H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science					
PHYS	H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science 1298 001 1.0 Andrea N. Lommen 1299 002 1.0 Karen L. Masters  H404F Research in Astrophysics	ject in astro	physics unde	er the supe	rvision of	0
	H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science 1298 001 1.0 Andrea N. Lommen 1299 002 1.0 Karen L. Masters  H404F Research in Astrophysics Intended for those students who choose to complete an independent research pro	ject in astro	physics unde	er the supe	rvision of	0
	H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science 1298 001 1.0 Andrea N. Lommen 1299 002 1.0 Karen L. Masters  H404F Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member.	ject in astro	physics unde	er the supe	rvision of	0
	H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science 1298 001 1.0 Andrea N. Lommen 1299 002 1.0 Karen L. Masters  H404F Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent	ject in astro	physics unde	er the supe	rvision of	0
	H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science 1298 001 1.0 Andrea N. Lommen 1299 002 1.0 Karen L. Masters  H404F Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Attributes: Natural Science	ject in astro	physics unde	er the supe	rvision of	0 0
	H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science 1298 001 1.0 Andrea N. Lommen 1299 002 1.0 Karen L. Masters  H404F Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Attributes: Natural Science 1302 001 .5 Andrea N. Lommen	ject in astro	physics unde	er the supe	rvision of	0 0
PHYS	H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science  1298 001 1.0 Andrea N. Lommen 1299 002 1.0 Karen L. Masters  H404F Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Attributes: Natural Science  1302 001 .5 Andrea N. Lommen 1303 002 .5 Karen L. Masters	ject in astro	physics unde	er the supe	rvision of	0 0
PHYS	H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science  1298 001 1.0 Andrea N. Lommen 1299 002 1.0 Karen L. Masters  H404F Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Attributes: Natural Science  1302 001 .5 Andrea N. Lommen 1303 002 .5 Karen L. Masters  H411A Research in Soft Matter Physics	ject in astro	physics unde	er the supe	rvision of	0 0
PHYS	H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science	ject in astro	physics unde	er the supe	rvision of	0 0
PHYS	H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science	ject in astro	physics unde	er the supe	rvision of	0 0
PHYS	#404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science  1298 001 1.0 Andrea N. Lommen 1299 002 1.0 Karen L. Masters  #404F Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Attributes: Natural Science  1302 001 .5 Andrea N. Lommen 1303 002 .5 Karen L. Masters  #411A Research in Soft Matter Physics Experimental research studying the rigidity and failure of jammed, disordered athermal and nonlinear materials. Prerequisite(s): Instructor consent	ject in astro	physics unde	er the supe	rvision of	0 0
	H404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science	ject in astro	physics unde	er the supe	rvision of	0 0
PHYS	#404A Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Enrollment Limit: 12 Attributes: Natural Science  1298 001 1.0 Andrea N. Lommen 1299 002 1.0 Karen L. Masters  #404F Research in Astrophysics Intended for those students who choose to complete an independent research pro a faculty member. Prerequisite(s): Instructor consent Attributes: Natural Science  1302 001 .5 Andrea N. Lommen 1303 002 .5 Karen L. Masters  #411A Research in Soft Matter Physics Experimental research studying the rigidity and failure of jammed, disordered athermal and nonlinear materials. Prerequisite(s): Instructor consent	ject in astro	physics unde	er the supe	rvision of	0 0

Experimental research studying the rigidity and failure of jammed, disordered solids, and the mechanical response of athermal and nonlinear materials.

Prerequisite(s): Instructor consent

	Cat Nbr ClNbr Sctn Crd Instructor(s) Days Start End Room	Enrlo
	Attributes: Natural Science	
	1321 001 .5 Theodore A. Brzinski	0
	2771 002 .5 Kazi Tawhid-Al-Islam	0
HYS	H412A Research in Theoretical and Computational Physics	
	Independent research on current problems in theoretical physics, with emphasis on particle physics, physical cosmology, and	
	mathematical physics; extensive use is also made of computer-based methods.	
	Prerequisite(s): Instructor consent	
	Enrollment Limit: 3	
	1316 001 1.0 Daniel Grin	0
	2772 002 1.0 Islam Khan	0
HYS	H412F Research in Theoretical and Computational Physics	
піз	Independent research on current problems in theoretical physics, with emphasis on particle physics, physical cosmology, and	
	mathematical physics; extensive use is also made of computer-based methods. This course is graded universal P/F in which no	
	numerical grade is assigned.	
	Prerequisite(s): Instructor consent	
	1322 001 .5 Daniel Grin	0
	2773 002 .5 Islam Khan	0
HYS	H413A Research in Biological Physics	
піз	Experimental & computational research applying physics to problems in biomechanics, animal behavior & sensory ecology.	
	Prerequisite(s): Instructor consent	
	Enrollment Limit: 6	
	1317 001 1.0 Suzanne Amador Kane	0
	1317 001 1.0 Bazanne madol nane	0
	2779 002 1 0 Vianney Gimenez-Pinto	Ω
	2779 002 1.0 Vianney Gimenez-Pinto	0
PHYS	H413F Research in Biological Physics	
PHYS	H413F Research in Biological Physics Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include	
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	
HYS	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.	
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	
HYS	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	
HYS	H413F Research in Biological Physics Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned. Prerequisite(s): Instructor Consent Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane	0
	H413F Research in Biological Physics Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned. Prerequisite(s): Instructor Consent Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto	
	H413F Research in Biological Physics  Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned.  Prerequisite(s): Instructor Consent  Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  H415A Research in Nanoscale Physics	0
	H413F Research in Biological Physics  Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned.  Prerequisite(s): Instructor Consent  Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  H415A Research in Nanoscale Physics  Research on the morphology and electronic properties of nano-scale materials.	0
	H413F Research in Biological Physics  Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned.  Prerequisite(s): Instructor Consent  Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  H415A Research in Nanoscale Physics  Research on the morphology and electronic properties of nano-scale materials.  Prerequisite(s): Instructor consent. Advanced lab experience preferred	0
	H413F Research in Biological Physics  Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned.  Prerequisite(s): Instructor Consent  Enrollment Limit: 6  1326 001     .5     Suzanne Amador Kane 2780 002     .5     Vianney Gimenez-Pinto  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	0
	H413F Research in Biological Physics  Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned.  Prerequisite(s): Instructor Consent  Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  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  Attributes: Natural Science	0
PHYS	H413F Research in Biological Physics  Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned.  Prerequisite(s): Instructor Consent  Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  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  Attributes: Natural Science 1318 001 1.0 Walter F. Smith	0
HYS	H413F Research in Biological Physics  Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned.  Prerequisite(s): Instructor Consent  Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  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  Attributes: Natural Science 1318 001 1.0 Walter F. Smith  H415F Research in Nanoscale Physics	0
HYS	H413F Research in Biological Physics  Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned.  Prerequisite(s): Instructor Consent  Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  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  Attributes: Natural Science 1318 001 1.0 Walter F. Smith  H415F Research in Nanoscale Physics  Research on the morphology and electronic properties of nano-scale materials.	0
HYS	H413F Research in Biological Physics  Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned.  Prerequisite(s): Instructor Consent  Enrollment Limit: 6  1326 001	0
HYS	H413F Research in Biological Physics  Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned.  Prerequisite(s): Instructor Consent  Enrollment Limit: 6  1326 001	0
HYS	H413F Research in Biological Physics  Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned.  Prerequisite(s): Instructor Consent  Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  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  Attributes: Natural Science 1318 001 1.0 Walter F. Smith  H415F Research in Nanoscale Physics  Research on the morphology and electronic properties of nano-scale materials.  Prerequisite(s): Instructor consent. Advanced lab experience preferred  Enrollment Limit: 5  Attributes: Natural Science  Enrollment Limit: 5  Attributes: Natural Science	0 0
HYS HYS	H413F Research in Biological Physics Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned. Prerequisite(s): Instructor Consent Enrollment Limit: 6 1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  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 Attributes: Natural Science 1318 001 1.0 Walter F. Smith  H415F Research in Nanoscale Physics Research on the morphology and electronic properties of nano-scale materials. Prerequisite(s): Instructor consent. Advanced lab experience preferred Enrollment Limit: 5 Attributes: Natural Science 1319 001 .5 Walter F. Smith	0
HYS	H413F Research in Biological Physics Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned. Prerequisite(s): Instructor Consent Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  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 Attributes: Natural Science 1318 001 1.0 Walter F. Smith  H415F Research in Nanoscale Physics Research on the morphology and electronic properties of nano-scale materials. Prerequisite(s): Instructor consent. Advanced lab experience preferred Enrollment Limit: 5 Attributes: Natural Science 1319 001 .5 Walter F. Smith  H460A Association in Teaching Basic Physics	0 0
HYS	H413F Research in Biological Physics Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned. Prerequisite(s): Instructor Consent Enrollment Limit: 6  1326 001	0 0
HYS	H413F Research in Biological Physics Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned. Prerequisite(s): Instructor Consent Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  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 Attributes: Natural Science 1318 001 1.0 Walter F. Smith  H415F Research in Nanoscale Physics Research on the morphology and electronic properties of nano-scale materials. Prerequisite(s): Instructor consent. Advanced lab experience preferred Enrollment Limit: 5 Attributes: Natural Science 1319 001 .5 Walter F. Smith  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	0 0
HYS	H413F Research in Biological Physics Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biophymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned. Prerequisite(s): Instructor Consent Enrollment Limit: 6 1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  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 Attributes: Natural Science 1318 001 1.0 Walter F. Smith  H415F Research in Nanoscale Physics Research on the morphology and electronic properties of nano-scale materials. Prerequisite(s): Instructor consent. Advanced lab experience preferred Enrollment Limit: 5 Attributes: Natural Science 1319 001 .5 Walter F. Smith  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	0 0
HYS	H413F Research in Biological Physics Experimental research on the functionality and the statistical mechanics of biophysical systems. Current experiments include mechanical measurements of biopolymers, and computational studies of artificial evolution. This course is graded universal P/F in which no numerical grade is assigned. Prerequisite(s): Instructor Consent Enrollment Limit: 6  1326 001 .5 Suzanne Amador Kane 2780 002 .5 Vianney Gimenez-Pinto  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 Attributes: Natural Science 1318 001 1.0 Walter F. Smith  H415F Research in Nanoscale Physics Research on the morphology and electronic properties of nano-scale materials. Prerequisite(s): Instructor consent. Advanced lab experience preferred Enrollment Limit: 5 Attributes: Natural Science 1319 001 .5 Walter F. Smith  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	0 0

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_	Cat Nbr ClNbr Sctn Crd Instructor(s) Days Start End Room	Enrl
	Attributes: Natural Science	
	1320 001 1.0 TBA Department staff	0
HYS	H480A Independent Study	
	Intended for students who want to pursue some topic of study that is not currently offered in the curriculum. In order to	
	enroll, a student must have a faculty sponsor.	
	Prerequisite(s): Instructor consent	
	Enrollment limit: 6	
	Attributes: Natural Science	-1
	1325 001 1.0 TBA Department staff	1
	1558 002 1.0 TBA Department staff	0
PHYS	H480F Independent Study	
	1538 001 .5 TBA Department staff	0
	1800 002 .5 TBA Department staff	0
POLS	H121A American Politics	
	This course examines the dynamics of the political process as seen in the Congress, the Presidency, and the judiciary. It	
	also focuses on the roles that interest groups, public opinion, the media, and political parties and elections play in the	
	American political system.	
	Enrollment Limit: 35	
	Attributes: B: Analysis of the Social World Social Science	2.2
	1172 001 1.0 Zachary W. Oberfield T Th 10:00AM 11:25AM HLL7	33
POLS	H151A International Politics	
	This course offers an introduction to the study of international politics. It considers examples from history and addresses	
	contemporary issues, while introducing and evaluating the political theories that have been used by scholars to explain those events. The principal goal of the course is to develop a general set of analytical approaches that can be used to gain	
	insight into the nature of world politics - past, present and future.	
	Enrollment Limit: 40	
	Enrollment Limit: 40 Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and	
	Enrollment Limit: 40	7
POLS	Enrollment Limit: 40  Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science  2348 001 1.0 Barak Mendelsohn T Th 11:30AM 12:55PM HLS109	7
POLS	Enrollment Limit: 40  Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science  2348 001 1.0 Barak Mendelsohn T Th 11:30AM 12:55PM HLS109	7
POLS	Enrollment Limit: 40  Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science 2348 001 1.0 Barak Mendelsohn T Th 11:30AM 12:55PM HLS109  H171A Introduction to Political Theory	7
POLS	Enrollment Limit: 40  Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science  2348 001 1.0 Barak Mendelsohn T Th 11:30AM 12:55PM HLS109  H171A Introduction to Political Theory  An introduction to central concepts of political life through exploring the questions and problems surrounding democratic	7
POLS	Enrollment Limit: 40  Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science  2348 001 1.0 Barak Mendelsohn T Th 11:30AM 12:55PM HLS109  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	7
POLS	Enrollment Limit: 40  Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science  2348 001 1.0 Barak Mendelsohn  T Th 11:30AM 12:55PM HLS109  H171A Introduction to Political Theory  An introduction to central concepts of political life through exploring the questions and problems surrounding democratic freedom, power, authority and citizenship. Reading from ancient, modern, and contemporary sources, literary as well as philosophical, American as well as European, will be included.  Enrollment Limit: 40  Attributes: B: Analysis of the Social World Social Science	<u> </u>
	Enrollment Limit: 40  Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science  2348 001 1.0 Barak Mendelsohn Theory  An introduction to Political Theory  An introduction to central concepts of political life through exploring the questions and problems surrounding democratic freedom, power, authority and citizenship. Reading from ancient, modern, and contemporary sources, literary as well as philosophical, American as well as European, will be included.  Enrollment Limit: 40  Attributes: B: Analysis of the Social World Social Science  1456 001 1.0 Thomas J. Donahue Theory Allows Issuer Studies Peace, Justice and Middle Eastern & Islamic Studies Peace, Justice and Human Rights Peace, Justice and Huma	7
	Enrollment Limit: 40  Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science  2348 001 1.0 Barak Mendelsohn T Th 11:30AM 12:55PM HLS109  H171A Introduction to Political Theory  An introduction to central concepts of political life through exploring the questions and problems surrounding democratic freedom, power, authority and citizenship. Reading from ancient, modern, and contemporary sources, literary as well as philosophical, American as well as European, will be included.  Enrollment Limit: 40  Attributes: B: Analysis of the Social World Social Science  1456 001 1.0 Thomas J. Donahue T Th 2:30PM 3:55PM HLL7  H215A Constitutional Law and Civil Rights: Gender, Sexuality, and Race	<u> </u>
	Enrollment Limit: 40  Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science  2348 001 1.0 Barak Mendelsohn T Th 11:30AM 12:55PM HLS109  H171A Introduction to Central concepts of political life through exploring the questions and problems surrounding democratic freedom, power, authority and citizenship. Reading from ancient, modern, and contemporary sources, literary as well as philosophical, American as well as European, will be included.  Enrollment Limit: 40  Attributes: B: Analysis of the Social World Social Science  1456 001 1.0 Thomas J. Donahue T Th 2:30PM 3:55PM HLL7  H215A Constitutional Law and Civil Rights: Gender, Sexuality, and Race  This course will provide an overview of constitutional law and its effects on civil rights, with a particular emphasis on	<u> </u>
POLS	Enrollment Limit: 40  Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science 2348 001 1.0 Barak Mendelsohn T Th 11:30AM 12:55PM HLS109  H171A Introduction to Political Theory An introduction to central concepts of political life through exploring the questions and problems surrounding democratic freedom, power, authority and citizenship. Reading from ancient, modern, and contemporary sources, literary as well as philosophical, American as well as European, will be included. Enrollment Limit: 40  Attributes: B: Analysis of the Social World Social Science 1456 001 1.0 Thomas J. Donahue T Th 2:30PM 3:55PM HLL7  H215A Constitutional Law and Civil Rights: Gender, Sexuality, and Race This course will provide an overview of constitutional law and its effects on civil rights, with a particular emphasis on gender, sexual orientation, and race.	<u> </u>
	Enrollment Limit: 40 Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science 2348 001 1.0 Barak Mendelsohn T Th 11:30AM 12:55PM HLS109  H171A Introduction to Central concepts of political life through exploring the questions and problems surrounding democratic freedom, power, authority and citizenship. Reading from ancient, modern, and contemporary sources, literary as well as philosophical, American as well as European, will be included. Enrollment Limit: 40 Attributes: B: Analysis of the Social World Social Science 1456 001 1.0 Thomas J. Donahue T Th 2:30PM 3:55PM HLL7  H215A Constitutional Law and Civil Rights: Gender, Sexuality, and Race This course will provide an overview of constitutional law and its effects on civil rights, with a particular emphasis on gender, sexual orientation, and race. Prerequisite(s): One course in political science or consent of the instructor	<u> </u>
	Enrollment Limit: 40 Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science 2348 001 1.0 Barak Mendelsohn  H171A Introduction to Political Theory An introduction to central concepts of political life through exploring the questions and problems surrounding democratic freedom, power, authority and citizenship. Reading from ancient, modern, and contemporary sources, literary as well as philosophical, American as well as European, will be included.  Enrollment Limit: 40 Attributes: B: Analysis of the Social World Social Science 1456 001 1.0 Thomas J. Donahue  T Th 2:30PM 3:55PM HLL7  H215A Constitutional Law and Civil Rights: Gender, Sexuality, and Race This course will provide an overview of constitutional law and its effects on civil rights, with a particular emphasis on gender, sexual orientation, and race. Prerequisite(s): One course in political science or consent of the instructor Enrollment Limit: 20	<u> </u>
	Enrollment Limit: 40 Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science 2348 001 1.0 Barak Mendelsohn T Th 11:30AM 12:55PM HLS109 H171A Introduction to Political Theory An introduction to central concepts of political life through exploring the questions and problems surrounding democratic freedom, power, authority and citizenship. Reading from ancient, modern, and contemporary sources, literary as well as philosophical, American as well as European, will be included. Enrollment Limit: 40 Attributes: B: Analysis of the Social World Social Science 1456 001 1.0 Thomas J. Donahue T Th 2:30PM 3:55PM HLL7  H215A Constitutional Law and Civil Rights: Gender, Sexuality, and Race This course will provide an overview of constitutional law and its effects on civil rights, with a particular emphasis on gender, sexual orientation, and race. Prerequisite(s): One course in political science or consent of the instructor Enrollment Limit: 20 Lottery Preference(s): Political Science Majors	<u> </u>
	Enrollment Limit: 40 Attributes: B: Analysis of the Social World International Studies Middle Eastern & Islamic Studies Peace, Justice and Human Rights Social Science 2348 001 1.0 Barak Mendelsohn  H171A Introduction to Political Theory An introduction to central concepts of political life through exploring the questions and problems surrounding democratic freedom, power, authority and citizenship. Reading from ancient, modern, and contemporary sources, literary as well as philosophical, American as well as European, will be included.  Enrollment Limit: 40 Attributes: B: Analysis of the Social World Social Science 1456 001 1.0 Thomas J. Donahue  T Th 2:30PM 3:55PM HLL7  H215A Constitutional Law and Civil Rights: Gender, Sexuality, and Race This course will provide an overview of constitutional law and its effects on civil rights, with a particular emphasis on gender, sexual orientation, and race. Prerequisite(s): One course in political science or consent of the instructor Enrollment Limit: 20	<u> </u>

Theoretical analysis of origins and development of mass-based protest movements in the U.S. Scholarly explanations of recruitment of individuals, modes of organization and leadership, strategies and tactics, countermovements, and the impact of movements on policy and politics.

Subject	Cat Nbr ClNbr	Sctn Crd	Instructor(s)		Days	Start	End	Room	Enrlo
	Enrollment Limit	-• 35							
			the Social World Social Science	ce					
		-	Stephen J. McGovern	-	M W	10:00AM	11:25AM	GST101	28
POLS			Crisis of Democracy: A Comparativ	ve Perspective					
			d observed in diverse countries la		and the	US. This c	ourse adopt	s a global	
	-		re to analyze populism's historica	<del>-</del> '			_	-	
	different theori	les, includ	ling ideational, strategic, and pe	erformative understandings	of popul	lism. Addit	ionally, it	examines	
	various factors	influencin	ng populism's emergence, its relat	tionship with democracy, po	olitical	systems, a	nd popular	movements.	
			plying these concepts to regional						
			tical science course or consent of	of instructor.					
			cal Science Majors						
	Enrollment Limit								
		-	the Social World Social Science	ce	1	10 00716	11 0531		0
			Yonca Ozdemir		T Th	10:00AM	11:25AM		0
POLS		Politics							
			age in Africa from the colonial pe						
	globalization.	al themes	including democracy, human rights	s, gender, interstate rela	cions, e	conomic dev	elopment, a	ına	
	2	one cours	se in political science or consent	t of the instructor					
	Enrollment Limit		e in political science of consen	e of the instructor.					
			es B: Analysis of the Social W	orld Gender and Sexuality	v Studie.	s Social	Science		
			Susanna Wing	orra conder and condurre,	T Th	10:00AM	11:25AM	HLL106	15
POLS	H264A Interna	tional Orga	anizations						
		_	de range of international institu	tions that structure inter	national	relations	such as the	UN, ICC,	
	UNHCR, UNDP, EU,	African U	Union, WTO, IMF, World Bank, and I	NGOs. The course explores t	the foll	owing quest	ions: What	are these	
	international or	ganization	ns (IOs)? Why do states establish	IOs? Can IOs change states	s' behavi	iors? How e	ffective ar	e IOs? How	
		•	The course will survey the field		_		_		
	· ·	_	g a range of substantive issue are	<b>4</b> ·			•	•	
			studies will be used to illustrate		enhance 1	understandi	ng of key o	concepts.	
	_	_	tical science course or consent	of the instructor.					
	_		cal Science majors and minors.						
	Enrollment Limit		Sthe Contal Mandal Contal Cotton						
		-	the Social World Social Scient Yonca Ozdemir	ce	M TeT	10.00714	11.0E7M		0
				7.1 1.0	W W	10:00AM	11:25AM		
POLS			quantitative Research Methods in		. +o form	m] a + a - a - m a	acamah ausa	.+	
			e quantitative analysis of politic find a relevant dataset, produce						
	statistical anal		rina a refevant dataset, product	e descriptive statistics an	.ia visua.	1120010113,	and conduct	Dasic	
		-	ductory course in political scien	nce					
	Enrollment Limit								
			nior majors, junior majors, sophor	mores					
	-		the Social World Quantitative						
	1169	001 1.0	Jack Commins Hart		M	7:30PM	9:55PM		19
			Hasler						
POLS	H301A Develop	ment, Huma	n Rights, and Transnational Injus	stices					
			stacles to peace and justice? How						
		-	peace and justice worldwide, and	3					

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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

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrlo
	to address these problems and be effective global citizens. Second, to understar present world order. Third and finally, to hone the skills in analysis, theory-k in legal and political advocacy, in public life and the professions, and in grad	building, an	d arguing t		-	
	Crosslisted: Independent College Programs, Political Science Enrollment Limit: 15					
	Lottery Preference(s): Returning CPGC Interns					
	Attributes: B: Analysis of the Social World Peace, Justice and Human Rights	Social Just	ice Socia	l Science		
	1173 001 1.0 Thomas J. Donahue	M	1:30PM	3:55PM	STO104	12
OLS	H315A Research in American Politics					
	This course helps students prepare for a senior thesis in political science. Spetopic, developing a literature review and hypothesis, and generating a research Prerequisite(s): Junior or senior standing or instructor consent Enrollment Limit: 15					l
	Attributes: B: Analysis of the Social World Social Science 1163 001 1.0 Zachary W. Oberfield	Т	1:30PM	3:55PM	HLL112	6
POLS	H318A Contemporary Political Ideas amid Global Transformations		1,00111	0,00111	1122112	
	This course examines how contemporary political ideas and movements, like nation affected by the global transformations that are now underway in the wake of COV transformations are reshaping these ideas, in light of the particular interests Enrollment Limit: 15	ID-19. We wi	ll explore	how these	ty are	
	Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World			2 - E E DM	170714100	0
POLS	H320A Democracy in America	M	1:30PM	3:55PM	VCAM102	9
	ideological and partisan polarization, increasing economic inequality, ongoing concerns about the diminishing quality of citizen participation in politics.  Enrollment Limit: 15  Attributes: B: Analysis of the Social World Social Science  1164 001 1.0 Stephen J. McGovern	constraints M	raced by ma	rginalized 3:55PM	GST102	9
OLS	H330A Topics in Comparative Politics	1.1	1.30111	3.33111	001102	
Ollo	This is a workshop course built around student interests and senior thesis topic limited to, ethnicity, religion, gender and the state. We will look at how state development and how they cope with violent conflict.  Prerequisite(s): Three courses in POLS AND junior or senior status, or instructed Enrollment Limit: 15  Lottery Preference(s): Senior POLS majors, then junior POLS majors, then seniors Attributes: B: Analysis of the Social World Latin American, Iberian, and Latin 2349 001 1.0 Susanna Wing	es pursue bo or consent s, then juni	th politica	l and econ	-	6
POLS	H331A Research and Writing in Comparative Politics					
	This seminar on research and writing in comparative politics seeks to foster advances workshopping skills among advanced political science majors  Prerequisite(s): 5 courses in political science at the introductory and intermed Enrollment Limit: 15  Lottery Preference(s): Political Science Seniors, then Political Science Juniors Attributes: B: Analysis of the Social World Social Science  1171 001 1.0 Anita Julie Isaacs	diate levels		s, writing	and	5
POLS	H332A Short of War: Deterrence and Compellence in International Politics The course examines the way international relations' theory addresses policies spolicies states use to promote their political and strategic objectives, to dissituations, and to promote peaceful resolution to interstate conflicts.		_	_	_	3
D C2	-5.00				1 0/14/0000	11 00

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	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrlo				
	Prerequisite(s): One political science course or instructor permission									
	Enrollment Limit: 15									
	Lottery Preference(s): Political science majors									
	Attributes: B: Analysis of the Social World Social Science									
	2352 001 1.0 Barak Mendelsohn	Th	1:30PM	3:55PM	HLL112	15				
POLS	H460A Teaching Assistant									
	Teaching assistant.									
	Prerequisite(s): Instructor consent									
	Attributes: Social Science									
	1174 001 1.0 Zachary W. Oberfield					4				
	1511 002 1.0					1				
	1535 003 1.0					1				
OLS	H480A Independent Study									
020	This course is conducted through individual consultation; supervised independen	nt reading and	l research i	s expected	: research					
	papers and oral reports on special topics are based upon the individual interes	_		-	, rescaren					
	Prerequisite(s): Instructor consent									
	Enrollment Limit: 5									
	1170 001 1.0					0				
SYC	H100A Foundations of Psychology									
	An introduction to the study of mind and behavior. Topics include biological, c	ognitive, per	sonality, a	bnormal, an	nd 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 m									
	an AP Psychology score of 4 or 5 or IB Psychology credit.	•		-						
	Prerequisite(s): Students with AP Psychology credit from high school (and a sco	re of 4 or 5	on the AP e	xam) have t	the option					
	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 consu	ltation wit	th a					
	to waive the Foundations course and enroll in upper-level courses; this should									
	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH from high school (and a score of 4 or 5 on the AP exam). Enrollment Limit: 35	1 100 even if	they have A	P Psycholog	gy credit					
	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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	1 100 even if	they have A	P Psycholog	gy credit					
	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH from high school (and a score of 4 or 5 on the AP exam). Enrollment Limit: 35	1 100 even if	they have A	P Psycholog	gy credit					
	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science	I 100 even if as follows: f	they have A	P Psycholog	gy credit					
	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors	1 100 even if	they have A	P Psycholog	gy credit	13				
	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science	I 100 even if as follows: f	they have A	P Psycholog	gy credit	13 26				
	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science  1178 001 1.0 Jonathan Schacherer	I 100 even if as follows: f	they have A Freshmen, so 10:00AM	P Psycholog phomores, 1 11:25AM	gy credit juniors, CHS101					
SYC	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science  1178 001 1.0 Jonathan Schacherer  1179 002 1.0 TBA Department staff	I 100 even if  as follows: f  M W  T Th	Freshmen, so  10:00AM 10:00AM	phomores, 11:25AM 11:25AM	gy credit juniors, CHS101 SHA410	26				
SYC	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science 1178 001 1.0 Jonathan Schacherer 1179 002 1.0 TBA Department staff 2753 003 1.0 TBA Department staff H200A Research Methods and Statistics	as follows: f  M W T Th T Th	Treshmen, so  10:00AM 10:00AM 1:00PM	phomores, 1 11:25AM 11:25AM 2:25PM	gy credit juniors, CHS101 SHA410 SHA410	26 6				
SYC	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science  1178 001 1.0 Jonathan Schacherer  1179 002 1.0 TBA Department staff  2753 003 1.0 TBA Department staff	as follows: f  M W T Th T Th	Treshmen, so  10:00AM 10:00AM 1:00PM	phomores, 11:25AM 11:25AM 2:25PM	gy credit juniors,  CHS101 SHA410 SHA410 ethods used	26 6				
SYC	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science 1178 001 1.0 Jonathan Schacherer 1179 002 1.0 TBA Department staff 2753 003 1.0 TBA Department staff  H200A Research Methods and Statistics  A general overview of the research methods used in psychological science along	as follows: f  M W T Th T Th	Treshmen, so  10:00AM 10:00AM 1:00PM	phomores, 11:25AM 11:25AM 2:25PM	gy credit juniors,  CHS101 SHA410 SHA410 ethods used	26 6				
syc	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science  1178 001 1.0 Jonathan Schacherer  1179 002 1.0 TBA Department staff  2753 003 1.0 TBA Department staff  H200A Research Methods and Statistics  A general overview of the research methods used in psychological science along in the field. Activities focus on designing research studies, collecting data, written assignments.	as follows: f  M W T Th T Th  with training data analysis	Treshmen, so  10:00AM 10:00AM 1:00PM	phomores, 11:25AM 11:25AM 2:25PM	gy credit juniors,  CHS101 SHA410 SHA410 ethods used	26 6				
PSYC	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science  1178 001 1.0 Jonathan Schacherer  1179 002 1.0 TBA Department staff 2753 003 1.0 TBA Department staff  H200A Research Methods and Statistics  A general overview of the research methods used in psychological science along in the field. Activities focus on designing research studies, collecting data,	as follows: f  M W T Th T Th  with training data analysis	Treshmen, so  10:00AM 10:00AM 1:00PM	phomores, 11:25AM 11:25AM 2:25PM	gy credit juniors,  CHS101 SHA410 SHA410 ethods used	26 6				
SYC	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science  1178 001 1.0 Jonathan Schacherer  1179 002 1.0 TBA Department staff  2753 003 1.0 TBA Department staff  H200A Research Methods and Statistics  A general overview of the research methods used in psychological science along in the field. Activities focus on designing research studies, collecting data, written assignments.  Prerequisite(s): PSYC 100 or PSYC B105 or Psychology AP Score of 4 or instructors	as follows: f  M W T Th T Th  with training data analysis	Treshmen, so  10:00AM 10:00AM 1:00PM  g in the sta s, and prese	phomores, 11:25AM 11:25AM 2:25PM tistical menting result	gy credit juniors,  CHS101 SHA410 SHA410 ethods used	26 6				
SYC	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science  1178 001 1.0 Jonathan Schacherer  1179 002 1.0 TBA Department staff  2753 003 1.0 TBA Department staff  H200A Research Methods and Statistics  A general overview of the research methods used in psychological science along in the field. Activities focus on designing research studies, collecting data, written assignments.  Prerequisite(s): PSYC 100 or PSYC B105 or Psychology AP Score of 4 or instructo Enrollment Limit: 35	as follows: f  M W T Th T Th  with training data analysis	Treshmen, so  10:00AM 10:00AM 1:00PM  g in the sta s, and prese	phomores, 11:25AM 11:25AM 2:25PM tistical menting result	gy credit juniors,  CHS101 SHA410 SHA410 ethods used	26 6				
SYC	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science  1178 001 1.0 Jonathan Schacherer  1179 002 1.0 TBA Department staff  2753 003 1.0 TBA Department staff  H200A Research Methods and Statistics  A general overview of the research methods used in psychological science along in the field. Activities focus on designing research studies, collecting data, written assignments.  Prerequisite(s): PSYC 100 or PSYC B105 or Psychology AP Score of 4 or instructo Enrollment Limit: 35  Lottery preference(s): (1) Psychology majors, (2) Neuroscience majors, sophomore	as follows: f  M W T Th T Th  with training data analysis	Treshmen, so  10:00AM 10:00AM 1:00PM  g in the sta s, and prese	phomores, 11:25AM 11:25AM 2:25PM tistical menting result	gy credit juniors,  CHS101 SHA410 SHA410 ethods used	26 6				
SYC	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science  1178 001 1.0 Jonathan Schacherer  1179 002 1.0 TBA Department staff  2753 003 1.0 TBA Department staff  H200A Research Methods and Statistics  A general overview of the research methods used in psychological science along in the field. Activities focus on designing research studies, collecting data, written assignments.  Prerequisite(s): PSYC 100 or PSYC B105 or Psychology AP Score of 4 or instructo Enrollment Limit: 35  Lottery preference(s): (1) Psychology majors, (2) Neuroscience majors, sophomor students	as follows: f  M W T Th T Th  with training data analysis	Treshmen, so  10:00AM 10:00AM 1:00PM  g in the sta s, and prese	phomores, 11:25AM 11:25AM 2:25PM tistical menting result	gy credit juniors,  CHS101 SHA410 SHA410 ethods used	26 6				
SYC	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science  1178 001 1.0 Jonathan Schacherer  1179 002 1.0 TBA Department staff  2753 003 1.0 TBA Department staff  H200A Research Methods and Statistics  A general overview of the research methods used in psychological science along in the field. Activities focus on designing research studies, collecting data, written assignments.  Prerequisite(s): PSYC 100 or PSYC B105 or Psychology AP Score of 4 or instructo Enrollment Limit: 35  Lottery preference(s): (1) Psychology majors, (2) Neuroscience majors, sophomor students  Attributes: B: Analysis of the Social World Quantitative Social Science	as follows: f  M W T Th T Th  with training data analysis or consent  res, (3) senion	Treshmen, so  10:00AM 10:00AM 1:00PM  g in the sta s, and prese  ors, (4) jun	phomores, 11:25AM 11:25AM 2:25PM tistical menting resultions, (5)	gy credit juniors,  CHS101 SHA410 SHA410 ethods used lts through	26 6				
SYC	to waive the Foundations course and enroll in upper-level courses; this should faculty member in the Psychology Department. Students are welcome to take PSYCH 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 seniors  Attributes: B: Analysis of the Social World Social Science  1178 001 1.0 Jonathan Schacherer  1179 002 1.0 TBA Department staff  2753 003 1.0 TBA Department staff  H200A Research Methods and Statistics  A general overview of the research methods used in psychological science along in the field. Activities focus on designing research studies, collecting data, written assignments.  Prerequisite(s): PSYC 100 or PSYC B105 or Psychology AP Score of 4 or instructo Enrollment Limit: 35  Lottery preference(s): (1) Psychology majors, (2) Neuroscience majors, sophomor students  Attributes: B: Analysis of the Social World Quantitative Social Science 1182 001 1.0 Laura E. Been	as follows: f  M W T Th T Th  with training data analysis or consent ces, (3) senion	Treshmen, so  10:00AM 10:00AM 1:00PM  g in the sta s, and prese  ors, (4) jun  10:00AM	phomores, 11:25AM 11:25AM 2:25PM tistical menting resultions, (5) 11:25AM	gy credit juniors,  CHS101 SHA410 SHA410 ethods used lts through	26 6				

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Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	An examination of human development, surveying the physical, cognitive, social are from conception onward. Theoretical and empirical approaches to the growing personal readings in the primary research literature, and class discussions.		-		-	
	This course is mutually exclusive with PSYCB211 and PSYCB206, meaning students when this one, or one of the two alternatives at Bryn Mawr, but not both.	ho are inte	rested in t	his course	can take	
	Prerequisite(s): PSYC H100 or PSYC B105 or Psychology AP Score 4+ or consent. Enrollment Limit: 35 Lottery Preference(s): Majors and minors by class (seniors then juniors)					
	Attributes: B: Analysis of the Social World Social Science 2595 001 1.0 Ryan Lei	M W	10:00AM	11:25AM	SHAAUD	35
PSYC	H215A Personality Psychology An examination of the fundamental issues and questions addressed by personality What are its underlying processes and mechanisms? How does personality develop at healthy personality? This course will explore these questions by considering evic personality (trait, psychodynamic, humanistic, and social-cognitive), and it will understanding of human personality that is situated within biological, social, at Prerequisite(s): PSYC 100 or PSYC B105 or Psychology AP Score 4 or instructor contents.	psychology, nd change or dence from a l encourage nd cultural	including: ver time? W several majo students to	What is p hat consti or approac	ersonality? tutes a hes to	
	Enrollment Limit: 35 Lottery Preference(s): Psychology senior majors/minors, Psychology junior majors/first, etc.) Attributes: B: Analysis of the Social World Child and Family Studies Social 1188 001 1.0 Jennifer L Lilgendahl		en non-majo: 11:30AM	rs by clas		35
PSYC	H217A Behavioral Neuroscience Interrelations between brain, behavior, and subjective experience. The course in psychology through consideration of current knowledge about the mechanisms of min Crosslisted: Psychology, Biology Prerequisite(s): Any one of the following or instructor consent: PSYC 100, PSYC 1000, PSYC 1000, PSYC 1000, PSYC 1000, P	troduces stand and beha	udents to pi	nysiologic	al	
	H129, NEUR H100, Psychology AP Score 4 Enrollment Limit: 35 Lottery Preference(s): 1) Psych majors, neuroscience majors, and neuroscience min seniors	·	·	·	·	
	Attributes: B: Analysis of the Social World C: Physical and Natural Processes 2736 001 1.0 Samantha Fortin	Natural S T Th	cience Ne 10:00AM	uroscience 11:25AM		15
PSYC	H236A Introduction to Behavioral Economics  This course explores how observations of human psychology has influenced our undedecision-making. Students will reinforce and expand their understanding of class new models incorporating insights from the field of psychology. Course assignment with real world data sets and academic writing.  Crosslisted: PSYC.	ical econom	ic models,	and learn	to work with	n
	Pre-requisite(s): Economics 104 or 105, or equivalent Enrollment Limit: 25 Attributes: B: Analysis of the Social World Social Science 2546 001 1.0 David M. Owens	M W	11:30AM	12:55PM	I FDR220	8
PSYC	H305F Communicating Psychological Science The forms of communication in psychological science, including writing funding research reports, research reviews, and peer review, are covered. Oral presentations of the property			osals, emp	irical	

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Enrollment Limit: 15
Lottery Preference(s):

science journalism and academic blogging will be explored.

Prerequisite(s): PSYC 200 and at least one additional 200-level Psychology course.

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	<ol> <li>Junior Psychology majors/minors</li> <li>Senior Psychology majors/minors</li> <li>Attributes: B: Analysis of the Social World Social Science</li> </ol>					
	2599 001 .5 Alexander LaTourrette	W	2:30PM	3:55PM		15
	2907 002 .5 Alexander LaTourrette	Th	11:30AM	12:55PM		0
PSYC	H315F Laboratory in Personality Psychology An overview of methods used to conduct research on personality. Through lab learn about important methodological topics within the study of personality, validity, different modes of data collection (self-report questionnaires, in experimental approaches), and how to analyze and interpret personality data. Prerequisite(s): Past or concurrent enrollment in PSYC 215 is required. Prio recommended; however, concurrent enrollment in PSYC 200 or PSYC B205 may be Enrollment Limit: 16 Lottery Preference(s): PSYC senior majors first, then junior majors next, the seniors first, etc.	including meas terviews and na or completion of permissible wit	urement, rel rratives, ob PSYC 200 or h instructor	iability and servational PSYC B205 consent	nd l and is	
	Attributes: B: Analysis of the Social World Social Science					
	1190 001 .5 Jennifer L Lilgendahl	W	11:30AM	12:55PM	HLS12	16
	An examination of the neurobiology underlying sexual behavior. This seminar neural regulation of both pre-copulatory and copulatory behavior, drawing from the analysis of the neurobiology of the systems.  Prerequisite(s): PSYC 100 and PSYC 217, or instructor consent Enrollment Limit: 12  Lottery Preference(s): priority to senior psychology or neuroscience majors, majors, followed by psychology or neuroscience minors.  Attributes: C: Physical and Natural Processes Gender and Sexuality Studies 2596 001 1.0 Laura E. Been	followed by just	rature in in	vertebrate	, rodent,	e 12
PSYC	H339A Asian American Psychology This seminar course addresses major theories and findings in Asian American acculturation, ethnic identity, stereotyping and discrimination, families and Prerequisite(s): One 200 level PSYC course or permission from instructor Enrollment Limit: 15				on and	
	Lottery Preference(s): Senior PSYC majors, Senior ASAM minors, Senior Psych sumior Psych minors, then class year (seniors, juniors, etc).  Attributes: Asian American Studies B: Analysis of the Social World Social 2597 001 1.0 Shu-wen Wong	·	PSYC majors, 1:30PM	Junior ASA	AM minors, SHA416	15
PSYC	Junior Psych minors, then class year (seniors, juniors, etc).  Attributes: Asian American Studies B: Analysis of the Social World Socia 2597 001 1.0 Shu-wen Wong  H348A Language and Thought  This class will provide an advanced overview of language's role in cognition the way we think. For instance, we will consider how languages might—or migh categorize events, understand emotions, and reason abstractly. We will also language and cognition across varied populations including multilingual spea infants, non-human animals, and artificial intelligences.  Pre-requisite(s): Psych 100 required; and any 200-level Psychology course or Lottery Preference: Senior Psychology majors, Junior Psychology majors, Senio Linguistics majors and minors, all else by seniority.  Enrollment Limit: 12.00	al Science  M  A, asking whether the examine interactive interacti	1:30PM  r the langua e way we per tions and di th aphasia, consent.	3:55PM  age(s) we specified the specified colors of th	SHA416  peak affectrs, s between	t
PSYC	Junior Psych minors, then class year (seniors, juniors, etc).  Attributes: Asian American Studies B: Analysis of the Social World Socia 2597 001 1.0 Shu-wen Wong  H348A Language and Thought  This class will provide an advanced overview of language's role in cognition the way we think. For instance, we will consider how languages might—or migh categorize events, understand emotions, and reason abstractly. We will also language and cognition across varied populations including multilingual spea infants, non-human animals, and artificial intelligences.  Pre-requisite(s): Psych 100 required; and any 200-level Psychology course or Lottery Preference: Senior Psychology majors, Junior Psychology majors, Senio Linguistics majors and minors, all else by seniority.	al Science  M  A, asking whether the examine interactive interacti	1:30PM  r the langua e way we per tions and di th aphasia, consent.	3:55PM  age(s) we specified the specified colors of th	SHA416  peak affectrs, s between	t

ubject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	This course will provide comprehensive coverage of the principles of human neuro	psychology-	how the neur	rological o	rganization	
	of the brain influences the way people think, feel, and act. Topics include fou			-	r ganir za c r on	
	approaches), major functional systems (e.g., vision, memory, executive functions		-		ations	
	(e.g., experimental, clinical).	, spacial p.	roccouring, ,	and appire	20110	
	Pre-requisite(s): One of the following: NEURO 100, PSYC H217/B218, PSYC 260					
	Lottery Preference: Senior psychology majors, Junior psychology majors, Senior a	nd Junior ne	euroscience	maiors. Ps	vchology	
	minors by class year, Neuroscience minors by class year, all else by class year.		041000101100	,010, 10	101101091	
	Enrollment Limit: 12.00					
	Attributes: B: Analysis of the Social World C: Physical and Natural Processes	Neuroscie	nce Social	l Science		
	2842 001 1.0 Jonathan Schacherer	M W	2:30PM	3:55PM	LNKL205	0
YC	H361A Communication Disorders Seminar					
	What are communication disorders? What are the characteristics of these disorder	s? What can	different o	communicati	on	
	disorders tell us about normal speech and language processing? In this course, s					
	that affect communication throughout the lifespan, including developmental, acqu					
	in the speech, language, and hearing domains. We will draw on empirical studies	•	_			
	causes and underlying mechanisms of different disorders.	and checter.	icai icviews	CO CHAMILII	e pocenciai	
	Pre-requisite(s): PSYC100 Foundations of Psychology, PSYC200 Research Methods an	d Statistic	s. and one a	additional	200-level	
	Psychology or any 100-level Linguistics course		o, and one o		200 10001	
	Lottery Preference: Senior psychology majors, Junior psychology majors, Senior p	sychology m	inors. Junio	or psycholo	av minors.	
	Linguistics majors and minors, all others by class year.	oyenorogy m	inois, camic	or poyemere	93 1111010,	
	Enrollment Limit: 12.00					
	Attributes: R. Analysis of the Social World Social Science					
	Attributes: B: Analysis of the Social World Social Science	M W	10.00 <b>a</b> M	11·25am	SHA416	Ω
170	2843 001 1.0 Peiyao Chen	M W	10:00AM	11:25AM	SHA416	0
SYC	2843 001 1.0 Peiyao Chen  H362A Developmental Behavioral Neuroscience					0
SYC	2843 001 1.0 Peiyao Chen  H362A Developmental Behavioral Neuroscience Developmental Behavioral Neuroscience is a broadly defined branch of psychology	that seeks	to understar	nd how indi		0
SYC	2843 001 1.0 Peiyao Chen  H362A Developmental Behavioral Neuroscience  Developmental Behavioral Neuroscience is a broadly defined branch of psychology develop behaviorally, both from a biological and comparative perspective. Topics	that seeks	to understar	nd how indi		0
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	H362A Developmental Behavioral Neuroscience  Developmental Behavioral Neuroscience is a broadly defined branch of psychology develop behaviorally, both from a biological and comparative perspective. Topics motivational, and cognitive processes and social-emotional development.  Prerequisite(s): HC Psych 217 or BMC Psych 218 or HC Psych 260  Enrollment Limit: 12  Lottery Preference(s): 1. Senior Psyc and Neuro majors 2. Senior Psyc and Neuro Junior Psyc and Neuro minors  Attributes: C: Physical and Natural Processes Natural Science Neuroscience 1638 001 1.0 Patrese Robinson-Drummer	that seeks include de	to understar velopment of unior Psyc a	nd how indi sensory, and Neuro m	viduals ajors 4.	
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survey methodologies, with an emphasis on transparency and utilizing best-practices for open science. Open to senior

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psychology majors.

Subject	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)			Days	Start	End	Room	Enrld
	Enrollmer	nt Limi	t: 10									
	Attribute	es: Soc	ial Sc	cience								
		1206	001	1.0	Benjamin Le			F	1:30PM	3:55PM	SHA410	0
PSYC	H394A				itorial in Behavioral							
					l examines the bidire		-			_		;
					o. Using a rodent mod						gn and	
	Enrollmer	-		empiri	cal projects in behav	/loral neuroendocri	inology. Open to s	enior psy	chology majo	ors.		
	Attribute			Science	e Neuroscience							
		1176	001	1.0	Laura E. Been			F	1:30PM	3:55PM	SHA416	3
		2598	002	1.0	Patrese Robinson-			F	1:30PM	3:55PM	SHA410	3
					Drummer							
PSYC	H395A	Senior	Resea	rch Tu	torial in Cognitive	Neuroscience						
					l involves designing							
	-	_		topics	vary, but often invo	olve executive fund	ctions, attention,	or emoti	on regulation	on. Open to	senior	
	psycholog											
	Enrollmer Attribute			200	Social Science							
		1177	001		Rebecca Compton			F	1:30PM	3:55PM	SHA410	2
PSYC	H397A				torial in Developmen	tal Psychology			1.00111	3.00111	01111110	
1010	Open to S					rear rayenorogy						
	Attribute		-	22								
		1785			Ryan Lei			F	1:30PM	3:55PM	SHA410	4
PSYC	H398A	Senior	Resea	rch Tu	torial in Cultural F	sychology						
	This seni	ior the	sis tu	ıtoria.	l examines the influe	ence of culture, et	thnicity, and race	on psych	ological pro	cesses. To	pics on	
				suppor	t, emotion processes,	, and health and we	ell-being are emph	asized. O	pen to senio	or psycholo	gy majors.	
	Enrollmer											
	Attribute				EDA Describing to the f	£		П	1 - 20 DM	2 - E E DM	0117.410	2
					TBA Department staf	<u> </u>		F	1:30PM	3:55PM	SHA410	3
PSYC		Indepe		_	andont research under	r the aurentiaien	of a faculty mamba	r and roa	uiros fogult	··· in···i+a+i	on and	
	approval.		orves	тиаер	endent research under	the supervision (	or a racurty membe	r and req	ulles lacult	LY INVILACI	on and	
	Enrollmer		t: 10									
	Attribute			cience								
		1557	001	1.0	TBA Department staf	f						0
PSYC	H480F	Indepe	ndent	Study								
	This cour	rse inv	olves	indep	endent research under	r the supervision (	of a faculty membe	r and req	uires facult	y invitati	on and	
	approval.											
	Enrollmer											
	Attribute					5						0
		1540	001		TBA Department staf							0
		1544	002		TBA Department staf	<u> </u>						0
RELG					ne Study of Religion	21.1.2	, .	7				
					dy of religion from m ces; cross-cultural f							
	study and	_	_		des; cross-cultural i	Leatures Common to	many religions; t	neories o	I religion a	and approac	nes to its	
	Enrollmer		-	-± O11 •								
				na. In	terpretation (Texts)	Humanities						
					Molly Farneth			M W	11:30AM	12:55PM	ST0131	23
					1							

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Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
ELG	H110A Sacred Texts and Religious Traditions					
	An introduction to Religion through the close reading of selected sacred texts	of various re	ligious tra	aditions in	their	
	historical, literary, philosophical, and religious contexts.					
	Enrollment Limit: 20					
	Lottery Preference(s): 10 spaces reserved for first-year students					
	Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social Wor.	ld Humanitie	s Middle	Eastern &	Islamic	
	Studies					
	1343 001 1.0 Anne Marie McGuire	M W	10:00AM	11:25AM	HLL106	13
ELG	H116A Ethical Struggles in Catastrophic Times: Quakers' Responses to the					
	Holocaust		+1+			
	In the 1930s and 1940s, Quakers engaged in a number of remarkable—and controve					<u> </u>
	assistance to people who were being persecuted by the Nazis. Those actions were		-		-	
	that Quakers were giving unwitting aid to the Nazis) and also derided by Nazis	-		-		
	Quakers were demonstrating a complete lack of awareness about how the world re-	_				
	did end up saving some lives. Students in this course will examine what Quaker.	-		-		2
	1930s and 1940s. The course is not designed as a venue in which to decide, once					
	were wise and which were foolish. The course is meant, rather, to offer student questions with which Quakers wrestled and an invitation to compare those quest.		_			
	Crosslisted: Independent College Programs; Religion; Peace, Justice and Human		ones they	race themse	ives.	
	Enrollment Limit: 15	RIGIICS				
	Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social Wor.	ld Humanitie	s Peace,	Justice ar	d Human	
	Rights	ia namanicio	is reace,	oubtice an	a naman	
	Rights					
	2769 001 1 0 David Harrington Watt	ጥ ጥክ	1 • 0 0 PM	2 • 25 PM	T.TTT 2 3 O	1
ET C	2769 001 1.0 David Harrington Watt	T Th	1:00PM	2:25PM	LUT230	1
ELG	H131A The Lure of Images: Religion and Visual Media					1
ELG	H131A The Lure of Images: Religion and Visual Media This course examines representations from figural forms to abstractions, found	objects and b	eautiful w	riting to u	nderstand	1
ELG	H131A The Lure of Images: Religion and Visual Media This course examines representations from figural forms to abstractions, found the power of sacred imagery. We will examine formats from medieval manuscripts	objects and b	eautiful war	riting to u lms, panora	nderstand mas and	1
RELG	H131A The Lure of Images: Religion and Visual Media This course examines representations from figural forms to abstractions, found the power of sacred imagery. We will examine formats from medieval manuscripts comic books to observe the dynamics that emerge among viewers and images in specific contents.	objects and be and painted watial contexts	eautiful ware alls to fill ranging fr	riting to u lms, panora rom altar p	nderstand mas and ieces,	1
ÆLG	H131A The Lure of Images: Religion and Visual Media This course examines representations from figural forms to abstractions, found the power of sacred imagery. We will examine formats from medieval manuscripts comic books to observe the dynamics that emerge among viewers and images in spaceulpture, stained glass and painting in neo-Gothic churches, calligraphy in medieval manuscripts.	objects and be and painted watial contexts	eautiful ware alls to fill ranging fr	riting to u lms, panora rom altar p	nderstand mas and ieces,	1
ELG	H131A The Lure of Images: Religion and Visual Media  This course examines representations from figural forms to abstractions, found the power of sacred imagery. We will examine formats from medieval manuscripts comic books to observe the dynamics that emerge among viewers and images in spacelleture, stained glass and painting in neo-Gothic churches, calligraphy in medieval temples and potent fabrics in Buddhist monastic complexes.	objects and be and painted watial contexts	eautiful ware alls to fill ranging fr	riting to u lms, panora rom altar p	nderstand mas and ieces,	1
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RELG	H131A The Lure of Images: Religion and Visual Media This course examines representations from figural forms to abstractions, found the power of sacred imagery. We will examine formats from medieval manuscripts comic books to observe the dynamics that emerge among viewers and images in sp. sculpture, stained glass and painting in neo-Gothic churches, calligraphy in medieval medie	objects and be and painted watial contexts	eautiful ware alls to fill ranging fr	riting to u lms, panora rom altar p	nderstand mas and ieces,	1
ELG	H131A The Lure of Images: Religion and Visual Media This course examines representations from figural forms to abstractions, found the power of sacred imagery. We will examine formats from medieval manuscripts comic books to observe the dynamics that emerge among viewers and images in sp. sculpture, stained glass and painting in neo-Gothic churches, calligraphy in medieval medieval medieval medieval manuscripts comic books to observe the dynamics that emerge among viewers and images in sp. sculpture, stained glass and painting in neo-Gothic churches, calligraphy in medieval medieva	objects and k and painted w atial contexts osque and shri	eautiful water to fill ranging for ne interior	riting to u lms, panora rom altar p rs, deity i	nderstand mas and ieces, cons in	
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RELG	H131A The Lure of Images: Religion and Visual Media This course examines representations from figural forms to abstractions, found the power of sacred imagery. We will examine formats from medieval manuscripts comic books to observe the dynamics that emerge among viewers and images in sp. sculpture, stained glass and painting in neo-Gothic churches, calligraphy in medieval manuscripts in Buddhist monastic complexes.  Crosslisted: VIST.  Enrollment Limit: 35.00  Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies 2655 001 1.0 Pika Ghosh  H221A Women and Gender in Early Christianity	objects and k and painted w atial contexts osque and shri	eautiful walls to fill ranging for ne interior	riting to u lms, panora rom altar p rs, deity i	nderstand mas and ieces, cons in	
	H131A The Lure of Images: Religion and Visual Media  This course examines representations from figural forms to abstractions, found the power of sacred imagery. We will examine formats from medieval manuscripts comic books to observe the dynamics that emerge among viewers and images in sp. sculpture, stained glass and painting in neo-Gothic churches, calligraphy in medieval manuscripts in Buddhist monastic complexes.  Crosslisted: VIST.  Enrollment Limit: 35.00  Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies 2655 001 1.0 Pika Ghosh  H221A Women and Gender in Early Christianity  An examination of the representations of women and gender in early Christian to	objects and k and painted w atial contexts osque and shri  T Th exts and their	eautiful with alls to fill ranging from the record	riting to u lms, panora rom altar p rs, deity i 11:25AM	nderstand mas and ieces, cons in  UNMAC	
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	H131A The Lure of Images: Religion and Visual Media  This course examines representations from figural forms to abstractions, found the power of sacred imagery. We will examine formats from medieval manuscripts comic books to observe the dynamics that emerge among viewers and images in spound sculpture, stained glass and painting in neo-Gothic churches, calligraphy in medieval manuscripts in Buddhist monastic complexes.  Crosslisted: VIST.  Enrollment Limit: 35.00  Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies 2655 001 1.0 Pika Ghosh  H221A Women and Gender in Early Christianity  An examination of the representations of women and gender in early Christian to Christianity. Topics include interpretations of Genesis 1-3, images of women and the roles of women in various Christian communities.	objects and k and painted w atial contexts osque and shri  T Th exts and their	eautiful with alls to fill ranging from the record	riting to u lms, panora rom altar p rs, deity i 11:25AM	nderstand mas and ieces, cons in  UNMAC	
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	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrlo
	The development of Quakerism and its relationship to other religious movement in America. The roots of the Society of Friends in 17th-century Britain, and World populations, particularly the Native American, Hispanic, east African, Crosslisted: Religion, History	the expansion of	of Quaker in			
	Enrollment Limit: 35 Attributes: B: Analysis of the Social World Social Science 2821 001 1.0 Emma Lapsansky	T Th	1:00PM	2:25PM	STO205	0
ELG	H299A Theoretical Perspectives in the Study of Religion	1 111	1.00111	2.23111	510203	
	An introduction to theories of the nature and function of religion from theol anthropological, and sociological perspectives. Readings may include: Schleie Durkheim, Weber, James, Otto, Benjamin, Eliade, Geertz, Foucault, Douglas, Sm Enrollment Limit: 15 Lottery Preference(s): Senior majors/minors, then Junior majors/minors Attributes: A: Meaning, Interpretation (Texts) Humanities	ermacher, Marx,	Nietzche, E	-		
	1342 001 1.0 Molly Farneth	T Th	11:30AM	12:55PM		15
ELG	H303A Religion, Literature and Representation: Images of Krishna					
	This course approaches the Hindu god Krishna through varied expressions in ar landscape design, poetry, music, dance, and drama. We will ask how these practicular faith and passion, and to gain proximity to the transcendent deity. Contemples and museums.  Enrollment Limit: 15	ctices were empl	loyed to vis	ualize the	divine, to	
	Attributes: A: Meaning, Interpretation (Texts) Gender and Sexuality Studies	s Humanities	Visual Stu	dies		
	2541 001 1.0 Pika Ghosh	T Th	1:00PM	2:25PM		3
	American artists, activists, and religionists have resisted, represented, and in the context of capitalist, white supremacist, male supremacist, and hetero Crosslisted: Africana Studies, Religion	_		ity, and g	ender norms	
	Prerequisite(s): 200-level Humanities course, or instructor consent Enrollment Limit: 15 Attributes: A: Meaning, Interpretation (Texts) Africana Studies B: Analys Studies Humanities				_	
	Prerequisite(s): 200-level Humanities course, or instructor consent Enrollment Limit: 15 Attributes: A: Meaning, Interpretation (Texts) Africana Studies B: Analys Studies Humanities 2540 001 1.0 Terrance Wiley	sis of the Socia	al World 6	Gender and 9:55PM	Sexuality UN111	15
ELG	Prerequisite(s): 200-level Humanities course, or instructor consent Enrollment Limit: 15 Attributes: A: Meaning, Interpretation (Texts) Africana Studies B: Analys Studies Humanities 2540 001 1.0 Terrance Wiley  H343A Seminar in Religions in Late Antiquity This seminar will focus on the historical origins and origin myths of Judaism cultural matrix of late ancient Greco-Roman, Byzantine, and Persian imperial interrelationships of these religions as they develop between the 1st to 8th Prerequisites: one course in Religion or Classics. Enrollment Limit: 15	M n, Christianity, socio-politics.	7:30PM	9:55PM	UN111	15
ELG	Prerequisite(s): 200-level Humanities course, or instructor consent Enrollment Limit: 15 Attributes: A: Meaning, Interpretation (Texts) Africana Studies B: Analys Studies Humanities 2540 001 1.0 Terrance Wiley  H343A Seminar in Religions in Late Antiquity This seminar will focus on the historical origins and origin myths of Judaism cultural matrix of late ancient Greco-Roman, Byzantine, and Persian imperial interrelationships of these religions as they develop between the 1st to 8th Prerequisites: one course in Religion or Classics. Enrollment Limit: 15 Attributes: A: Meaning, Interpretation (Texts) Humanities	m, Christianity, socio-politics centuries CE.	7:30PM and Islam We will st	9:55PM from withi	UN111	
ELG ELG	Prerequisite(s): 200-level Humanities course, or instructor consent Enrollment Limit: 15 Attributes: A: Meaning, Interpretation (Texts) Africana Studies B: Analys Studies Humanities 2540 001 1.0 Terrance Wiley  H343A Seminar in Religions in Late Antiquity This seminar will focus on the historical origins and origin myths of Judaism cultural matrix of late ancient Greco-Roman, Byzantine, and Persian imperial interrelationships of these religions as they develop between the 1st to 8th Prerequisites: one course in Religion or Classics. Enrollment Limit: 15 Attributes: A: Meaning, Interpretation (Texts) Humanities 1657 001 1.0 Naomi Koltun-Fromm  H398A Senior Thesis Seminar Part 1 A practical methodology course which prepares senior Religion majors to write Enrollment Limit: 25 Lottery Preference(s): Open to Senior Religion majors only	M M christianity, socio-politics centuries CE.	7:30PM and Islam We will st	9:55PM	UN111	15
	Prerequisite(s): 200-level Humanities course, or instructor consent Enrollment Limit: 15  Attributes: A: Meaning, Interpretation (Texts) Africana Studies B: Analys Studies Humanities  2540 001 1.0 Terrance Wiley  H343A Seminar in Religions in Late Antiquity This seminar will focus on the historical origins and origin myths of Judaism cultural matrix of late ancient Greco-Roman, Byzantine, and Persian imperial interrelationships of these religions as they develop between the 1st to 8th Prerequisites: one course in Religion or Classics. Enrollment Limit: 15 Attributes: A: Meaning, Interpretation (Texts) Humanities  1657 001 1.0 Naomi Koltun-Fromm  H398A Senior Thesis Seminar Part 1  A practical methodology course which prepares senior Religion majors to write Enrollment Limit: 25 Lottery Preference(s): Open to Senior Religion majors only Attributes: Humanities	M  m, Christianity, socio-politics centuries CE.  W  e their senior t	7:30PM and Islam We will st  1:30PM theses.	9:55PM  from withiness the  3:55PM	UN111 n the HLL112	5
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ubject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrlo
	Attributes: Humanities					
	1524 001 1.0 TBA Department staff					1
ELG	H480A Independent Study					
	Independent Study					
	Enrollment Limit: 5					0
	1340 001 1.0 1341 002 1.0					0
USS	H001A Elementary Russian Intensive					0
1033	Study of basic grammar and syntax. Fundamental skills in speaking, reading, writing	nα, and ora	l comprehen	sion are de	eveloped.	
	Eight hours a week including conversation sections and language laboratory work.	ing, and ora		.01011 010 01		
	Attributes: A: Meaning, Interpretation (Texts) Humanities					
	1509 001 1.5 Jane Robin Shaw	M T W	2:30PM	3:25PM	ST0205	0
		Th F				
RUSS	H356A Topics European History: The Russian Revolutionary Movement				-	
	the Russian Intelligentsia (from the Decembrists in 1825 to Dissidents in the 1970		-	_		
	memoir, Dostoevsky's novels, prison memoirs of Populist Terrorists, the Marxist uncivil war resisters, resisters to Stalinism, the dissidents in the 1960s and 70s.	naergrouna	and the SR	terrorists	1900-1917,	,
	Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World	Social Sc	ience			
	2704 001 1.0 Linda Gerstein	Th	1:30PM	3:55PM	HLL201	0
	WIACA Conden Davis and Daline					
OCL	H106A Gender, Power, and Policy					
OCL	•	ction of ge	nder and vi	olence in t	the US.	
OCL	The primary objective of this first-year seminar is to explore the social construc					
SOCL	•					
SOCL	The primary objective of this first-year seminar is to explore the social construction Gendered issues of conduct we will focus our attention on this semester include all	bortion, se	xual discri			
SOCL	The primary objective of this first-year seminar is to explore the social construction Gendered issues of conduct we will focus our attention on this semester include alworkplace, rape or sexual assault, and domestic violence.	bortion, se	xual discri			
SOCL	The primary objective of this first-year seminar is to explore the social construction of the social construction of this semester include all workplace, rape or sexual assault, and domestic violence.  Lottery Preference: First-year and sophomore students have priority over juniors and Enrollment Limit: 25.00	bortion, se	xual discri			
SOCL	The primary objective of this first-year seminar is to explore the social construction of the social construction of this semester include all workplace, rape or sexual assault, and domestic violence.  Lottery Preference: First-year and sophomore students have priority over juniors at Enrollment Limit: 25.00	bortion, se	xual discri			12
SOCL	The primary objective of this first-year seminar is to explore the social construct Gendered issues of conduct we will focus our attention on this semester include all workplace, rape or sexual assault, and domestic violence.  Lottery Preference: First-year and sophomore students have priority over juniors at Enrollment Limit: 25.00  Attributes: B: Analysis of the Social World Gender and Sexuality Studies Social 2658 001 1.0 Marla Kohlman  H155A Foundations in Social Theory	bortion, se and seniors al Science M W	xual discri . 11:30AM	mination in	n the	12
	The primary objective of this first-year seminar is to explore the social construct Gendered issues of conduct we will focus our attention on this semester include all workplace, rape or sexual assault, and domestic violence.  Lottery Preference: First-year and sophomore students have priority over juniors at Enrollment Limit: 25.00  Attributes: B: Analysis of the Social World Gender and Sexuality Studies Social 2658 001 1.0 Marla Kohlman  H155A Foundations in Social Theory  This seminar provides an introduction to sociology, to the doing of sociology, the	bortion, se and seniors al Science M W  rough an ex	xual discri . 11:30AM amination o	mination in 12:55PM	n the major	12
	The primary objective of this first-year seminar is to explore the social construct Gendered issues of conduct we will focus our attention on this semester include all workplace, rape or sexual assault, and domestic violence.  Lottery Preference: First-year and sophomore students have priority over juniors at Enrollment Limit: 25.00  Attributes: B: Analysis of the Social World Gender and Sexuality Studies Social 2658 001 1.0 Marla Kohlman  H155A Foundations in Social Theory  This seminar provides an introduction to sociology, to the doing of sociology, the works in the discipline. We use these works as exemplifications of how we might do	bortion, se and seniors al Science M W  rough an ex o social th	xual discri . 11:30AM amination o	numination in 12:55PM of selected as texts to	major be	12
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	The primary objective of this first-year seminar is to explore the social construct Gendered issues of conduct we will focus our attention on this semester include all workplace, rape or sexual assault, and domestic violence.  Lottery Preference: First-year and sophomore students have priority over juniors at Enrollment Limit: 25.00  Attributes: B: Analysis of the Social World Gender and Sexuality Studies Social 2658 001 1.0 Marla Kohlman  H155A Foundations in Social Theory  This seminar provides an introduction to sociology, to the doing of sociology, the works in the discipline. We use these works as exemplifications of how we might do criticized. The two semesters of this course are autonomous; either semester in the semester may be taken first. Together, the two mesh into a systematically-construct perspective on the accomplishments and future tasks of sociology than either provide different sections of the course.	and seniors  al Science  M W  rough an ex o social th he sequence cted whole,	xual discri .  11:30AM  amination of eory, not a may be tak leading to	12:55PM  of selected as texts to ten alone, as a more coh	major be and either	
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	The primary objective of this first-year seminar is to explore the social construct Gendered issues of conduct we will focus our attention on this semester include all workplace, rape or sexual assault, and domestic violence.  Lottery Preference: First-year and sophomore students have priority over juniors at Enrollment Limit: 25.00  Attributes: B: Analysis of the Social World Gender and Sexuality Studies Social 2658 001 1.0 Marla Kohlman  H155A Foundations in Social Theory  This seminar provides an introduction to sociology, to the doing of sociology, the works in the discipline. We use these works as exemplifications of how we might do criticized. The two semesters of this course are autonomous; either semester in the semester may be taken first. Together, the two mesh into a systematically-construct perspective on the accomplishments and future tasks of sociology than either providing ferent sections of the course.  Enrollment Limit: 22  Lottery Preference(s): Sociology Majors, Sociology Minors, First years, Sophomores.	and seniors  al Science  M W  rough an ex o social th he sequence cted whole, ides alone.	xual discri .  11:30AM  amination of eory, not a may be tak leading to There is s	12:55PM  of selected as texts to ten alone, as a more coh	major be and either	
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	The primary objective of this first-year seminar is to explore the social construct Gendered issues of conduct we will focus our attention on this semester include all workplace, rape or sexual assault, and domestic violence.  Lottery Preference: First-year and sophomore students have priority over juniors and Enrollment Limit: 25.00  Attributes: B: Analysis of the Social World Gender and Sexuality Studies Social 2658 001 1.0 Marla Kohlman  H155A Foundations in Social Theory  This seminar provides an introduction to sociology, to the doing of sociology, the works in the discipline. We use these works as exemplifications of how we might do criticized. The two semesters of this course are autonomous; either semester in the semester may be taken first. Together, the two mesh into a systematically-construct perspective on the accomplishments and future tasks of sociology than either proved different sections of the course.  Enrollment Limit: 22  Lottery Preference(s): Sociology Majors, Sociology Minors, First years, Sophomore: Section 001 with McKeever will highlight works by Marx, Weber, Polanyi, and Durkher Attributes: B: Analysis of the Social World Social Science  1227 001 1.0 Matthew McKeever  1228 002 1.0 Elise Herrala	bortion, se and seniors al Science M W  rough an ex o social th he sequence cted whole, ides alone.  s, Juniors, eim.  M W T Th	xual discri .  11:30AM  amination of eory, not a may be tak leading to There is s  Seniors.  10:00AM 11:30AM	12:55PM  255PM  25 selected as texts to the alone, a more consome variate and the consone variate and	major be and either nerent ion betweer  HLL112 HLL17	12
SOCL	The primary objective of this first-year seminar is to explore the social construct Gendered issues of conduct we will focus our attention on this semester include all workplace, rape or sexual assault, and domestic violence.  Lottery Preference: First-year and sophomore students have priority over juniors and Enrollment Limit: 25.00  Attributes: B: Analysis of the Social World Gender and Sexuality Studies Social 2658 001 1.0 Marla Kohlman  H155A Foundations in Social Theory This seminar provides an introduction to sociology, to the doing of sociology, the works in the discipline. We use these works as exemplifications of how we might do criticized. The two semesters of this course are autonomous; either semester in the semester may be taken first. Together, the two mesh into a systematically-construct perspective on the accomplishments and future tasks of sociology than either proved different sections of the course.  Enrollment Limit: 22  Lottery Preference(s): Sociology Majors, Sociology Minors, First years, Sophomore: Section 001 with McKeever will highlight works by Marx, Weber, Polanyi, and Durkhe Attributes: B: Analysis of the Social World Social Science  1227 001 1.0 Matthew McKeever  1228 002 1.0 Elise Herrala	bortion, se and seniors al Science M W  rough an ex o social th he sequence cted whole, ides alone.  s, Juniors, eim.  M W T Th  ociological	xual discri .  11:30AM  amination of eory, not a may be tak leading to There is s  Seniors.  10:00AM 11:30AM research,	12:55PM  25 selected as texts to ten alone, as to a more consome variate   11:25AM   12:55PM  including to	major be and either nerent ion between	12
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SOCL	The primary objective of this first-year seminar is to explore the social construct Gendered issues of conduct we will focus our attention on this semester include all workplace, rape or sexual assault, and domestic violence.  Lottery Preference: First-year and sophomore students have priority over juniors at Enrollment Limit: 25.00  Attributes: B: Analysis of the Social World Gender and Sexuality Studies Social 2658 001 1.0 Marla Kohlman  H155A Foundations in Social Theory This seminar provides an introduction to sociology, to the doing of sociology, the works in the discipline. We use these works as exemplifications of how we might do criticized. The two semesters of this course are autonomous; either semester in the semester may be taken first. Together, the two mesh into a systematically-construct perspective on the accomplishments and future tasks of sociology than either proved different sections of the course.  Enrollment Limit: 22  Lottery Preference(s): Sociology Majors, Sociology Minors, First years, Sophomore: Section 001 with McKeever will highlight works by Marx, Weber, Polanyi, and Durkhe Attributes: B: Analysis of the Social World Social Science  1227 001 1.0 Matthew McKeever  1228 002 1.0 Elise Herrala  H217A Qualitative Research Methods  This course examines and provides basic training in qualitative methods used in scapplication and conceptualization of theory, research design, sampling, strategies questions, and data coding and analysis.  Prerequisite(s): SOCL 155A or SOCL 155B, or instructor consent	bortion, se and seniors al Science M W  rough an ex o social th he sequence cted whole, ides alone.  s, Juniors, eim.  M W T Th  ociological	xual discri .  11:30AM  amination of eory, not a may be tak leading to There is s  Seniors.  10:00AM 11:30AM research,	12:55PM  25 selected as texts to ten alone, as to a more consome variate   11:25AM   12:55PM  including to	major be and either nerent ion between	12
SOCL	The primary objective of this first-year seminar is to explore the social construct Gendered issues of conduct we will focus our attention on this semester include all workplace, rape or sexual assault, and domestic violence.  Lottery Preference: First-year and sophomore students have priority over juniors at Enrollment Limit: 25.00  Attributes: B: Analysis of the Social World Gender and Sexuality Studies Social 2658 001 1.0 Marla Kohlman  H155A Foundations in Social Theory This seminar provides an introduction to sociology, to the doing of sociology, the works in the discipline. We use these works as exemplifications of how we might do criticized. The two semesters of this course are autonomous; either semester in the semester may be taken first. Together, the two mesh into a systematically-construct perspective on the accomplishments and future tasks of sociology than either providifferent sections of the course.  Enrollment Limit: 22  Lottery Preference(s): Sociology Majors, Sociology Minors, First years, Sophomore: Section 001 with McKeever will highlight works by Marx, Weber, Polanyi, and Durkhe Attributes: B: Analysis of the Social World Social Science  1227 001 1.0 Matthew McKeever  1228 002 1.0 Elise Herrala  H217A Qualitative Research Methods  This course examines and provides basic training in qualitative methods used in seapplication and conceptualization of theory, research design, sampling, strategies questions, and data coding and analysis.	bortion, se and seniors al Science M W  rough an ex o social th he sequence cted whole, ides alone.  s, Juniors, eim.  M W T Th  ociological	xual discri .  11:30AM  amination of eory, not a may be tak leading to There is s  Seniors.  10:00AM 11:30AM research,	12:55PM  25 selected as texts to ten alone, as to a more consome variate   11:25AM   12:55PM  including to	major be and either nerent ion between	12

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	This course explores contemporary political movements to measure learning outcome such topics as NCLB legislation, standardized testing for college admissions, ass development of online learning tools.  Crosslisted: Sociology, Education					
	Enrollment Limit: 25 Lottery Preferences: Haverford Sociology majors, Haverford Sociology minors, Educ minors.	ation Studi	es majors,	Education	Studies	
	Attributes: B: Analysis of the Social World Social Science 1935 001 1.0 Matthew McKeever	М	1:30PM	3:55PM	HLL107	11
OCL	H330A Intersectional Theory  This seminar explores the theoretical paradigm of intersectionality. Its principa of the ways in which the salient identities of master status; such as class posit simultaneously to produce the outcomes we observe in the lives of individuals and students will read and critically engage with scholars who have purposefully soug conflict theory through the lens of intersection theory, and by studying the role the level of the global economy today as in the past.  Pre-requisite(s): Sociology 155, or permission of instructor Enrollment Limit: 15  Attributes: B: Analysis of the Social World	tion, race, I within soc ght to model	or gender, eietal inst and analy	function itutions. E ze key cond	ach week,	
	2438 001 1.0 Marla Kohlman	Т	1:30PM	3:55PM		4
OCL	H450A Senior Departmental Studies Thesis work, two semesters required of majors in their senior year. Attributes: Social Science					
	1230 001 1.0 Matthew McKeever					2
	1231 002 1.0 Marla Kohlman					2
	1233 003 1.0 Elise Herrala					1
OCL	H460A Teaching Assistant Students may act as assistants in certain courses that they themselves have alreathe opportunity to lead discussions, informal teaching assistance, a short list ctopic.  1229 001 1.0		-		-	d
						0
SOCL	H480A Independent Study Research papers and reading courses on special topics related to the individual i	nterests of	advanced	students.		0
SOCL		nterests of	advanced	students.		0
SPAN	Research papers and reading courses on special topics related to the individual in Prerequisite(s): The instructor's approval of a research or reading proposal 1232 001 1.0  H001A Elementary Spanish  This course is the first part of the introduction to the Spanish language. We sturabout the culture of the Spanish-speaking world and to communicate effectively. The meaning. The course meets for five hours (5) a week: three hours (3) with the instandatory study group hour. This is a two-semester course. Both semesters need to Students who take the first semester at HC have priority of enrollment in the second seco	ndy grammar The focus is structor, on the be taken c	and vocabu on engagi e (1) hour	lary in ording in conve	ying and (1)	0
	Research papers and reading courses on special topics related to the individual in Prerequisite(s): The instructor's approval of a research or reading proposal 1232 001 1.0  H001A Elementary Spanish  This course is the first part of the introduction to the Spanish language. We sturate about the culture of the Spanish-speaking world and to communicate effectively. The meaning. The course meets for five hours (5) a week: three hours (3) with the instandatory study group hour. This is a two-semester course. Both semesters need to Students who take the first semester at HC have priority of enrollment in the second second students with no previous to very little experience in Spanish. Enrollment Limit: 18  This section is reserved for True Beginners.  Attributes: A: Meaning, Interpretation (Texts) Humanities	ndy grammar The focus is structor, on the be taken cond semeste	and vocabu on engagi e (1) hour consecutive	lary in ording in conve with a TA, ly to recei	ying and (1) ve credit.	0
	Research papers and reading courses on special topics related to the individual in Prerequisite(s): The instructor's approval of a research or reading proposal 1232 001 1.0  H001A Elementary Spanish  This course is the first part of the introduction to the Spanish language. We sturate about the culture of the Spanish-speaking world and to communicate effectively. The meaning. The course meets for five hours (5) a week: three hours (3) with the instandatory study group hour. This is a two-semester course. Both semesters need to Students who take the first semester at HC have priority of enrollment in the second second for students with no previous to very little experience in Spanish. Enrollment Limit: 18  This section is reserved for True Beginners.  Attributes: A: Meaning, Interpretation (Texts) Humanities  1444 001 1.0 Catherine Schroeder	ady grammar The focus is structor, on the betaken cond semeste	and vocabus on engagise (1) hour consecutives.	lary in ording in converse with a TA, ly to recei	ying and (1) ve credit.	0
	Research papers and reading courses on special topics related to the individual in Prerequisite(s): The instructor's approval of a research or reading proposal 1232 001 1.0  H001A Elementary Spanish  This course is the first part of the introduction to the Spanish language. We sturate about the culture of the Spanish-speaking world and to communicate effectively. The meaning. The course meets for five hours (5) a week: three hours (3) with the instandatory study group hour. This is a two-semester course. Both semesters need to Students who take the first semester at HC have priority of enrollment in the second second students with no previous to very little experience in Spanish. Enrollment Limit: 18  This section is reserved for True Beginners.  Attributes: A: Meaning, Interpretation (Texts) Humanities	ndy grammar The focus is structor, on the be taken cond semeste	and vocabu on engagi e (1) hour consecutive	lary in ording in conve with a TA, ly to recei	ying and (1) ve credit.	0

rituals and imperial architectures.

ıbject	Cat Nbr ClNbr	Sctn	Crd	Instructor(s)	Days	Start	End	Room	Enr
	writing skills	while ) hour	learn s with	nts who have achieved a basic knowledging about contemporary issues of Spanithe instructor, (1) hour with a TA, at tor consent.	sh-speaking countries. The o	course meets	for five h	hours a	d
	Enrollment Lin			501 50m50m6.					
		Meani	ng, In	terpretation (Texts) Humanities Aurelia Gómez De	T Th	10:00AM	11:25AM	ST0102	8
	4.40			Unamuno	,	44 00	40 55		
	1448	002		Gloria Lopez-Pesini	T Th	11:30AM	12:55PM		10
SPAN	2608 <b>H101A Inter</b>	003 mediate		Gloria Lopez-Pesini	T Th	1:00PM	2:25PM		6
	cultural, and specific theme hours a week: Prerequisite(s Enrollment Lin	histor es chos three s): SPA nit: 18	ical i en to (3) ho N 100,	rse are to strengthen and expand writi: ssues of the Spanish-speaking world. We enhance students' familiarity with Hispurs with the instructor, (1) hour with Placement score, or instructor consenterpretation (Texts) Humanities	ocabulary and grammar are ta panic societies and cultures a TA, and (1) mandatory stu t.	aught withins. The cour udy group ho	the contexts for	xt of the	2
	1449	001	1.0	Emily Sterk	M W	11:30AM			
	1449 1450	001 002	1.0	Roxanna Colón-Cosme	M W	10:00AM	11:25AM		4
SPAN	1449 1450 1452 <b>H102A Advar</b> This course as	001 002 003 .ced In	1.0 1.0 1.0 termed	Roxanna Colón-Cosme Roxanna Colón-Cosme  iate Spanish the student's ability to exercise cri	M W M W tical analysis and to commun	10:00AM 2:30PM	11:25AM 3:55PM		
SPAN	1449 1450 1452  H102A Advar This course as (orally and ir at the 200 lev mandatory study Prerequisite (see Enrollment Line)	001 002 003 ced In: ms to writi rel Th dy grou s): SPA nit: 18	1.0 1.0 1.0 1.0 termed refine ng) by e cour p hour N 101, ng, In 1.0	Roxanna Colón-Cosme Roxanna Colón-Cosme  iate Spanish the student's ability to exercise cri learning about a variety of cultural se meets for five hours a week: three . Placement score, or instructor consen  terpretation (Texts) Humanities Roberto Castillo Sandoval Roberto Castillo	M W M W  tical analysis and to communithemes and literary genres (3) hours with the instructor	10:00AM 2:30PM nicate effect and to prep	11:25AM 3:55PM Stively in Spare to take	e courses	4
	1449 1450 1452  H102A Advar This course as (orally and ir at the 200 lev mandatory stuce Prerequisite (sencollment Line Attributes: A. 1442  1443	001 002 003 ced In. ms to writi rel Th dy grou s): SPA mit: 18 Meani 001	1.0 1.0 1.0 1.0 Eermed refine ng) by e cour p hour N 101, ng, In 1.0	Roxanna Colón-Cosme Roxanna Colón-Cosme  iate Spanish the student's ability to exercise cri- learning about a variety of cultural se meets for five hours a week: three . Placement score, or instructor consenterpretation (Texts) Humanities Roberto Castillo Sandoval	M W M W  tical analysis and to communithemes and literary genres (3) hours with the instructor t.	10:00AM 2:30PM nicate effect and to prepor, (1) hour	11:25AM 3:55PM stively in Spare to take with a TA,	e courses	4 7
SPAN	H102A Advar This course as (orally and ir at the 200 lev mandatory study Prerequisite (senrollment Liny Attributes: A. 1442  H201A Exploy The course air division Spansimigrations, as Prerequisite (senrollment Liny Lottery Preference at 1450 and 1450 are the course air division spansimigrations, as Prerequisite (senrollment Liny Lottery Preference at 1450 and 1450 are the course air division spansimigrations, as Prerequisite (senrollment Liny Lottery Preference at 1450 and 1450 are the course air division spansimigrations, as Prerequisite (senrollment Liny Lottery Preference at 1450 and 1450 are the course air division spansimigrations).	001 002 003 ced In. ms to writi rel Th dy grous: SPA nit: 18 Meani 001 002 ring C: ns to push cound ad mani b): SPA nit: 15 rence(s Meani	1.0 1.0 1.0 1.0 termed refine ng) bye cour p hour N 101, ng, In 1.0 1.0 ritica rrovide rrses. festat N 102, ): 8 s ng, In	Roxanna Colón-Cosme Roxanna Colón-Cosme  iate Spanish the student's ability to exercise cri- learning about a variety of cultural se meets for five hours a week: three . Placement score, or instructor consen  terpretation (Texts) Humanities Roberto Castillo Sandoval Roberto Castillo Sandoval	M W M W  tical analysis and to communithemes and literary genres (3) hours with the instructor  t.  T Th  T Th  successfully undertake writes of, and write about topics octed in Spanish.	10:00AM 2:30PM  nicate effect and to prepor, (1) hour  10:00AM 11:30AM  ting assignments such as identifications.	11:25AM 3:55PM  ctively in Search to take with a TA,  11:25AM 12:55PM  dents in the lentity, borders	e courses, and (1)  e upper- rders and	4 3

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Students will examine literature, cultural objects, and maps to understand the encounters among the different religious, ethnic, and linguistic groups in the Peninsula and understand the spatial shifts throughout its history. Topics include the fluidity of the political boundaries, the role of the Mediterranean in mercantile networks, urban and rural spaces, public

ıbject	Cat Nbr ClNbr S	Sctn Crd	Instructor(s)			Days	Start	End	Room	Enrl	
	Pre-requisite(s):	: SPAN 102	; placement exam								
	_		; minors; LAILS conce	ntrators							
	Enrollment Limit	25.00									
			terpretation (Texts)	Humanities	Latin American, Ibe	erian, and L	atinx Stud	lies			
	2715 (	001 1.0	Roxanna Colón-Cosme			M W	11:30AM	12:55PM		13	
PAN		ng Modern									
			reconstruction of the								
		-	ry texts and visual p		_	_					
			ution and the post-re								
	Enrollment Limit		l sectors including c	ampesino and i	indigenous groups. Tr	iis course i	s conducte	a in Spanis	sn.		
			terpretation (Texts)	R. Analysis	of the Social World	Humanitie	e Tatin	American	Therian and	7	
	Latinx Studies	eaning, in	itelpletation (lexts)	D. Allarysis	of the Social World	II UIII a II I L I E	з пасти	American,	iberian, and	ı	
	2610	001 1 0	Aurelia Gómez De			T Th	1:00PM	2:25PM	STO104	20	
	2010	701 1.0	Unamuno			1 111	1.00111	2.23111	510101	20	
PAN	H307A Creative	Fiction	and Non-Fiction Writing	ng Workshop							
11111			onfiction-writing work	-	ents with advanced Sr	anish writi	na skills	The class	is		
			seminar and workshop								
	students. The course will focus on the development of essential elements of craft and technique in fiction and non-fiction writing (point of view, voice, dialogue, narrative and rhetorical structure, etc.) We will focus more on how fiction and										
			ather than on what the	ev mean. This	writerly perspective	e can be use	ful for re	considering	g and		
	non-fiction stor:	ies work r	ather than on what the long accepted as "great								
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An exploration of twentieth and twenty-first century feminist science fiction from Latin America and the Caribbean. Through novels, short stories, performances, and films, students will evaluate how the genre of science fiction addresses questions of gender, sexuality, race, class, and colonialism. Students will consider how feminist science fictions (re)imagine gender and sexuality in the future and the progression or regression that awaits.

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PAN	Lottery Enrollme	Prefere			level Spanish course							
DAN	Enrollme		nce: M	in i a ma								
DAN		2 E - F 2 C - 5		ajois	; minors & LAILS con	centrators.						
OAN .	Attribut	пт шіті	.t: 15.	00								
DAN		es: A:	Meanin	ng, In	terpretation (Texts)	Gender and Sex	uality Studies	Humanities	Latin Ame	rican, Iber	ian, and	
DAN	Latinx S											
DAM		2716	001	1.0	Emily Sterk			M W	2:30PM	3:55PM		3
AN		se will	consi	st of	<b>al Studies</b> two one-semester pa							
					ne Spanish departmen is directors). The p							
					enhancing and refini							
					contextualizing rele							
					y sources and approa							
	methods	for suc	cessfu	ıl res	earch and proper use	of available res	ources. Problems	in literary	and cultura	al analysis	-selected	
				-	nence in relation to				_	_		
					ry. The second semes	ter will involve	the process of wr	riting the th	nesis under	the superv	ision of	
	individu	-										
	Attribut			-	terpretation (Texts)	B: Analysis of	the Social World	d Humanitie	es			5
		1451			Ariana Huberman							3
TAT	H203A				ds and their Applica					,		
					ical methods used to							
					nd normal distributi							
	comparis	on or t	.wo sam	ipies,	regression, and ana	lysis of variance	. A required comp	outer lab, us	sing K, is t	taugnt along	gside this	
		tad. Ma	+homa+	ice	Statistics							
					or higher, placement	into MATH 121 or	higher, or instr	nictor conser	nt Students	s who have t	taken	
	_				stics course at Have							
	Enrollme		_	Deaci	belob courbe at have	riora or bryn naw	i may only enlor	01111 200	WICH INCC	accor comb.	511.6	
				al an	d Natural Processes	Health Studies	Natural Science	e Ouantitat	tive			
		1497	-		Weiwen Miao			M W	2:30PM	3:55PM	HLS12	12
		1498	00A	.0	Weiwen Miao			F	2:30PM	3:55PM	HLS12	12
rat	H396A	Advanc	ed Top	ics i	n Probability and St	atistics: Categor	cal Data Analysi	s				
			-		cs will be covered.	_	_		ed data. Tor	oics include	2	
					for binomial and mul							;
					for discrete data, i							
					ry logit models for							
	data. Ap	plicati	ons an	d int	erpretations of stat	istical models ar	e emphasized.			-		
	Crosslis	ted: Ma	themat	ics,	Statistics		-					
	Prerequi	site(s)	: MATH	218.	Students who have t	aken STAT 203 or	286 may take MATH	H 218 concur	rently.			
	Enrollme	nt Limi	.t: 50									
	Attribut	es: Nat	ural S	Scienc	e Quantitative							
		2570	001	1.0	Lynne M. Butler			M W	2:30PM	3:55PM	ESTW309	0

comic books to observe the dynamics that emerge among viewers and images in spatial contexts ranging from altar pieces, sculpture, stained glass and painting in neo-Gothic churches, calligraphy in mosque and shrine interiors, deity icons in

Enrollment Limit: 35.00

Crosslisted: VIST.

Hindu temples and potent fabrics in Buddhist monastic complexes.

Subject	Cat Nbr ClNbr Setn Crd Instructor(s)	Days	Start	End	Room	Enrld
	Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies					
	2656 001 1.0 Pika Ghosh	T Th	10:00AM	11:25AM	UNMAC	1
/IST	H141D Digital Media Pre-Production					
	This course will teach students the fundamentals of putting together a pre-produc	tion packac	ge for a dig	ital media	production	1
	project. This includes: screenwriting; storyboarding; budgets; shot lists; prop l	ists; and a	all necessar	y component	ts for	
	planning a major video project.					
	Enrollment Limit: 15.00					
	Attributes: A: Creative Expression Humanities Visual Studies 2693 001 .5 Charles Woodard	M ToT	2.20 DM	2 . E E DM	77C7M101	7
7T CM		M W	2:30PM	3:55PM	VCAM101	/
/IST	H142A Introduction to Visual Studies  An introduction to the trans-disciplinary field of Visual Studies, its methods of	: analweie a	and tonical	concorns '	Traditional	
	media and artifacts of art history and film theory, and also an examination of the					-
	systems of transmission, their points of consumption, and the very limits of visu			ri dii kind	o, cheir	
	Crosslisted: Visual Studies, Fine Arts, Comparative Literature	2				
	Enrollment Limit: 25					
	Lottery Preference(s):					
	1.) Senior Visual Studies minors					
	2.) Other declared Visual Studies minors					
	5 spaces reserved for incoming first years Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies					
	Attributes: A: Meaning, Interpretation (Texts) Humanities Visual Studies 1506 001 1.0 John Hancock Muse	T Th	10:00AM	11:25AM	VCAM201	16
/IST	H145E Some Assembly Required: Designing Objects of Play	1 111	10.00AN	11.20AM	VCAPIZUI	10
V 1 3 1	Emphasizing digital design and remote digital fabrication, this course invites st	udents to t	hink critic	ally about	objects of	
	play. What materials are used in toy design? What are the environmental implicati					-
	about communities of play help us imagine solutions to problems of isolation?		1		- 5	
	Crosslisted: Independent College Programs, Visual Studies					
	Enrollment Limit: 8					
	Attributes: A: Creative Expression Visual Studies					
	2695 001 .5 David Watson	T Th	10:00AM	11:25AM	VCAM005	9
/IST	H218A Realtime Interfaces for Creative Expression					
	Realtime Interfaces for Creative Expression is a 200-level course for artists, pe	•	-			
	with an interest in developing novel interactive software applications for the cr					
	environments, and new media performance. Students will use the graphical programm process, and generate digital audio and video content. Assignments will touch upon					
	interactive computer music, algorithmic and generative art, and video synthesis.					
	art-making is recommended.	TITOT CAPCI	.ichec wich	couring and,	or digital	-
	Pre-requisite(s): None					
	Lottery Preference: VIST Minors					
	Enrollment Limit: 12					
	Attributes: A: Creative Expression C: Physical and Natural Processes Humaniti	les Visual	l Studies			
	2698 001 1.0 Matthew O'Hare	T Th	11:30AM	12:55PM	VCAM005	8
/IST	H227A Game Design for Education & Research					
	This course provides students with the tools needed to understand, analyze and bu					9
	a close look at games and how our understanding of human psychology influences th	ne design of	games for	education a	and	

This course provides students with the tools needed to understand, analyze and build games. During the semester we will take a close look at games and how our understanding of human psychology influences the design of games for education and research. We will consider ways that games teach, and how we learn using games. We will also consider how the current and future technologies that support gaming can improve and maximize learning and performance.

Lottery Preference: Visual Studies Minors have preference; reserve 4 slots for first year students.

Enrollment Limit: 15.00

Attributes: A: Creative Expression Humanities Visual Studies

2906 001 1.0 Ronah Harris

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
/IST	H230A Postwar Japanese Cinema  This course provides an introduction to Japanese cinema from the immediate Postwa Focusing on films by influential directors including Ozu Yasujiro, Kurosawa Akira consider how Japanese filmmakers use cinema to investigate issues of truth, beaut to answer fundamental guestions regarding life and death in Japan's Postwar perior	, and Mizog y, identity	uchi Kenji	among othe	rs we will	
	Crosslisted: East Asian Languages & Cultures, Visual Studies, Environmental Studie Enrollment Limit: 15  Attributes: A: Meaning, Interpretation (Texts) B: Analysis of the Social World	es	s Visual	Studies	A: Meaning,	
	Interpretation (Texts) B: Analysis of the Social World				3,	
	2594 001 1.0 Erin Schoneveld Film Screening 2594 001 1.0 Erin Schoneveld	W T Th	7:30PM 1:00PM	9:55PM 2:25PM	VCAM001 VCAM201	2 2
VIST	H241E Film and Digital Media Editing	1 111	1.00FM	Z.ZJFM	VCAMZUI	
	In this course students will learn the technical fundamentals of film and video emontage. This course will train students in Adobe Premiere Pro which is the prima and digital media production in VCAM.  Enrollment Limit: 15.00  Attributes: A: Creative Expression Humanities Visual Studies	J.				
	2694 001 .5 Charles Woodard	M W	2:30PM	3:55PM	VCAM101	1
/IST	H275A Race and Representation in Documentary Filmmaking This is an introductory cross-listed (Visual Studies/Anthropology) production coundocumentary filmmaking through an exploration of race onscreen. The objective of critical awareness of the ways in which film and media in general perpetuate raci	the course	theory and is to enabl	practice o	to build a	
7IST	This is an introductory cross-listed (Visual Studies/Anthropology) production coudocumentary filmmaking through an exploration of race onscreen. The objective of	the course st discours ing practic tive voices ng and crit ority to ta	theory and is to enables and repress. As inspand historiquing film	practice of the students resentation, we ries to scrumaking wor	to build a s and e will een and	
VIST	This is an introductory cross-listed (Visual Studies/Anthropology) production coundocumentary filmmaking through an exploration of race onscreen. The objective of critical awareness of the ways in which film and media in general perpetuate racin explore how students can challenge such representations through their own filmmak watch and study a wide variety of innovative documentary films that bring alternated/watch filmmaker interviews. Classes will combine elements of a studio (sharing progress) and seminar (discussing weekly themes).  Crosslisted: VIST.  Lottery Preference: Senior students in anthropology and visual studies have a print Enrollment Limit: 12.00  Attributes: A: Creative Expression B: Analysis of the Social World Social Sci 1712 001 1.0 Zeynep Sertbulut	the course st discours ing practic tive voices ng and crit ority to ta	theory and is to enables and repress. As inspand historiquing film	practice of the students resentation, we ries to scrumaking wor	to build a s and e will een and	2
/IST	This is an introductory cross-listed (Visual Studies/Anthropology) production coundocumentary filmmaking through an exploration of race onscreen. The objective of critical awareness of the ways in which film and media in general perpetuate racinexplore how students can challenge such representations through their own filmmak watch and study a wide variety of innovative documentary films that bring alternate read/watch filmmaker interviews. Classes will combine elements of a studio (sharing progress) and seminar (discussing weekly themes).  Crosslisted: VIST.  Lottery Preference: Senior students in anthropology and visual studies have a printenrollment Limit: 12.00  Attributes: A: Creative Expression B: Analysis of the Social World Social Scientific 1712 001 1.0 Zeynep Sertbulut  H399A Capstone for Visual Studies Minors  Examines art, writing and exhibition practices centering in particular cultural colink art, identity, and politics, and the environment in their practice. Focuses archival research, analysis of visual material and critical making. To be taken in Prerequisite(s): Visual Studies minor  Enrollment Limit: 12	the course st discours ing practic tive voices ng and crit ority to ta ence Visu T Th ontexts. Ex on developi	theory and is to enables and repress. As inspand historiquing film the this classification of the thicket allowed the this classification of the thicket allowed the this classification of the thicket allowed the thicket allowe	practice of the students resentation, where to scramaking works.  12:55PM  Letter and cut all skills reserved.	to build a s and e will een and k in VCAM201	
	This is an introductory cross-listed (Visual Studies/Anthropology) production coundocumentary filmmaking through an exploration of race onscreen. The objective of critical awareness of the ways in which film and media in general perpetuate racinexplore how students can challenge such representations through their own filmmak watch and study a wide variety of innovative documentary films that bring alternate read/watch filmmaker interviews. Classes will combine elements of a studio (sharing progress) and seminar (discussing weekly themes).  Crosslisted: VIST.  Lottery Preference: Senior students in anthropology and visual studies have a printence of the content of the conte	the course st discours ing practic tive voices ng and crit ority to ta ence Visu T Th ontexts. Ex on developi	theory and is to enables and repress. As inspand historiquing film the this classification of the thicket allowed the this classification of the thicket allowed the this classification of the thicket allowed the thicket allowe	practice of the students resentation, where to scramaking works.  12:55PM  Letter and cut all skills reserved.	to build a s and e will een and k in VCAM201	
7IST	This is an introductory cross-listed (Visual Studies/Anthropology) production coundocumentary filmmaking through an exploration of race onscreen. The objective of critical awareness of the ways in which film and media in general perpetuate racinexplore how students can challenge such representations through their own filmmak watch and study a wide variety of innovative documentary films that bring alternated/watch filmmaker interviews. Classes will combine elements of a studio (sharing progress) and seminar (discussing weekly themes).  Crosslisted: VIST.  Lottery Preference: Senior students in anthropology and visual studies have a pricent limit: 12.00  Attributes: A: Creative Expression B: Analysis of the Social World Social Sci 1712 001 1.0 Zeynep Sertbulut  H399A Capstone for Visual Studies Minors  Examines art, writing and exhibition practices centering in particular cultural colink art, identity, and politics, and the environment in their practice. Focuses archival research, analysis of visual material and critical making. To be taken in Prerequisite(s): Visual Studies minor  Enrollment Limit: 12  Attributes: Humanities Visual Studies  1505 001 1.0 Emily Teera-Hong  H480A Independent Study	the course st discours ing practic tive voices ng and crit ority to ta ence Visu T Th ontexts. Ex on developin fall seme	theory and is to enables and repress. As inspand historiquing film the this classification of the thicket	practice of the students resentation, which is to screw ass.  12:55PM  Lasts and cut all skills residues to year.	to build a s and e will een and k in  VCAM201  rators who elated to	2
	This is an introductory cross-listed (Visual Studies/Anthropology) production coundocumentary filmmaking through an exploration of race onscreen. The objective of critical awareness of the ways in which film and media in general perpetuate racinexplore how students can challenge such representations through their own filmmak watch and study a wide variety of innovative documentary films that bring alternate read/watch filmmaker interviews. Classes will combine elements of a studio (sharing progress) and seminar (discussing weekly themes).  Crosslisted: VIST.  Lottery Preference: Senior students in anthropology and visual studies have a priencollment Limit: 12.00  Attributes: A: Creative Expression B: Analysis of the Social World Social Scientaria (1712 001 1.0 Zeynep Sertbulut)  H399A Capstone for Visual Studies Minors  Examines art, writing and exhibition practices centering in particular cultural colink art, identity, and politics, and the environment in their practice. Focuses archival research, analysis of visual material and critical making. To be taken in Prerequisite(s): Visual Studies minor  Enrollment Limit: 12  Attributes: Humanities Visual Studies  1505 001 1.0 Emily Teera-Hong	the course st discours ing practic tive voices ng and crit ority to ta ence Visu T Th ontexts. Ex on developin fall seme	theory and is to enables and repress. As inspand historiquing film the this classification of the thicket	practice of the students resentation, which is to screw ass.  12:55PM  Lasts and cut all skills residues to year.	to build a s and e will een and k in  VCAM201  rators who elated to	2

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

ubject	Cat Nbr C	lNbr Sct	Crd	Instructor(s)		Days	Start	End	Room	Enr
	Attributes	s. First V	ear Wri	iting						
		.516 001		Nimisha Ladva		M W	11:30AM	12:55PM		9
		.517 002		Nimisha Ladva		M W	1:00PM	2:25PM		10
WRPR				articipatory Culture		I'I VV	1.00114	2.23111		10
IRPR				ad and write, critically and purpos	sefully on what is consid	ared th	e new nuhli	c snhere: t	-he	
				by investigating three major areas						
				tivism (sometimes referred to as SI		CCI OI	cair out cu	icure, meme	curcure	
				nt by Director of College Writing.	identivism,					
				open to first year students as place	eed by the Director of Col	lege Wr	iting.			
	Enrollment		_	spen of first fear seadenes as prac-	sed by the birector or tor	1090				
	Attributes			iting						
		.536 001		Marjorie Ana Hartman		T Th	10:00AM	11:25AM		10
	1	.537 002	1.0	Marjorie Ana Hartman		T Th	1:00PM	2:25PM		10
VRPR		'eminism B		<del>_</del>						
				the right to vote, women in the Uni	ted States were actively	engaged	in an arra	v of polit	ical and	
				tion and labor reform to marriage a						
				ist expression by tracing the ways						
	-			ass, and citizenship.						
				nt by the Director of College Writi	ng.					
	Enrollment			1	3					
	Attributes	s: First Y	ear Wri	iting Gender and Sexuality Studie	es					
	1	.701 001	1.0	Jessica Hayden Libow		M W	11:30AM	12:55PM	UN114	11
				Jessica Hayden Libow		N. 6.7	1:00PM	2:25PM	UN114	11
	1	.702 002	1.0	Jessica naydeli Libow		M W	I.UUPM	Z . Z J F M	ONTIA	T T
WRPR				<u> </u>		M W	1:00PM	Z.ZJFM	ONITH	
NRPR	H118A I	ortraits	of Disa	ability and Difference writes that "staring is an interro	ogative gesture that asks					
IRPR	H118A B Rosemarie	Portraits Garland-T	<b>of Disa</b> homson	ability and Difference	3	whats g	oing on and	demands th	ne story.	11
VRPR	H118A F Rosemarie The eyes h	Cortraits Garland-T	of Disa homson orking	ability and Difference writes that "staring is an interro	order what seems unruly,	whats g	oing on and hat seems s	demands th	ne story.	11
VRPR	H118A E Rosemarie The eyes h seminar we	Portraits Garland-T nang on, we will exp	of Disa homson orking lore vi	ability and Difference writes that "staring is an interro to recognize what seems illegible,	order what seems unruly, elf-portraits of bodies ma	whats g know w rked by	oing on and hat seems s difference	demands th trange." Ir , bodies th	ne story. n this nat often	11
VRPR	H118A P Rosemarie The eyes h seminar we elicit sta	Cortraits Garland-Tang on, we will expans. We wares.	of Disa homson orking lore vi	writes that "staring is an interro to recognize what seems illegible, isual and literary portraits and se	order what seems unruly, elf-portraits of bodies ma about these bodies? How do	whats g know w rked by memoir	oing on and hat seems s difference s and self-	demands the trange." Ir , bodies the portraits h	ne story. n this nat often by people	
WRPR	H118A Rosemarie The eyes h seminar we elicit sta with disak	Cortraits Garland-T nang on, we will exp ares. We woilities of	of Disa homson orking lore vi ill ask raw on	whility and Difference writes that "staring is an interror to recognize what seems illegible, isual and literary portraits and seek: What kinds of stories are told a	order what seems unruly, elf-portraits of bodies ma about these bodies? How do writing and portraiture? H	whats g know w rked by memoir ow does	oing on and hat seems s difference s and self-this work	demands the trange." In the post of the portraits he calarge cultures the calarge cultures th	ne story. n this nat often by people ltural and	
WRPR	H118A I Rosemarie The eyes h seminar we elicit sta with disah aesthetic College wa	Cortraits Garland-T mang on, we will exp ares. We wo collities of views of riting.	of Disa homson orking lore vi ill ask raw on embodim	writes that "staring is an interror to recognize what seems illegible, isual and literary portraits and seems." What kinds of stories are told a and challenge traditions of life was a second to the	order what seems unruly, elf-portraits of bodies ma about these bodies? How do writing and portraiture? H	whats g know w rked by memoir ow does	oing on and hat seems s difference s and self-this work	demands the trange." In the post of the portraits he calarge cultures the calarge cultures th	ne story. n this nat often by people ltural and	
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	H118A F Rosemarie The eyes h seminar we elicit sta with disah aesthetic College wn Enrollment Attributes 1 H120A F	Cortraits Garland-T mang on, we will exp ares. We we collities of views of riting. Limit: 1 s: First N 518 001 Colutional	of Disa homson orking lore vi ill ask raw on embodim 2 fear Wri 1.0 ry Argu ovement	writes that "staring is an interror to recognize what seems illegible, is all and literary portraits and seems." What kinds of stories are told a and challenge traditions of life we ment, disability, and difference? (  iting  Kristin Anne Lindgren  ments  tof the early twentieth century to	order what seems unruly, elf-portraits of bodies mandout these bodies? How dowriting and portraiture? Hopen only to first-year stoot the present, scientists,	whats g know w rked by memoir ow does udents T Th	oing on and hat seems so difference so and selfthis work as assigned 2:30PM	demands the trange." In trange. The portraits he enlarge cull by the Direction 3:55PM	ne story. In this Inat often Dy people Itural and Rector of  UN114  Lists, and	
	H118A F Rosemarie The eyes h seminar we elicit sta with disah aesthetic College wn Enrollment Attributes 1 H120A F From the e others hav	Cortraits Garland-T hang on, we will exp ares. We we collities of views of riting. Limit: 1 s: First N 518 001 Colutiona eugenics m we argued	of Disa homson orking lore vi ill ask raw on embodim 2 Year Wri 1.0 ry Argu ovement about t	writes that "staring is an interror to recognize what seems illegible, is all and literary portraits and seems." What kinds of stories are told a and challenge traditions of life we ment, disability, and difference? Of the triple with the control of the early twentieth century to the uses of increasingly sophistical	order what seems unruly, elf-portraits of bodies mandout these bodies? How dowriting and portraiture? Hopen only to first-year stothe present, scientists, ated technologies for prev	whats g know w rked by memoir ow does udents  T Th ethici enting	oing on and hat seems so difference so and selfthis work as assigned 2:30PM sts, disabicertain inh	demands the trange." In , bodies the portraits he enlarge cuby the Direction 3:55PM	ne story. In this Inat often Dy people Itural and Rector of  UN114  ists, and its and	12
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	H118A F Rosemarie The eyes h seminar we elicit sta with disah aesthetic College wn Enrollment Attributes  H120A F From the e others hav enhancing these med:	Cortraits Garland-T hang on, we will exp ares. We we polities of views of riting. Limit: 1 s: First N 518 001 Colutiona eugenics m we argued others. We lical techn	of Disa homson orking lore vi ill ask raw on embodim  2 fear Wri 1.0 ry Argu ovement about te will	writes that "staring is an interror to recognize what seems illegible, is all and literary portraits and seems." What kinds of stories are told a and challenge traditions of life we ment, disability, and difference? Of the triple with the control of the early twentieth century to the uses of increasingly sophistical	order what seems unruly, elf-portraits of bodies mandout these bodies? How down triing and portraiture? Hopen only to first-year stock the present, scientists, ated technologies for prevethics, the court, social	whats g know w rked by memoir ow does udents  T Th ethici enting moveme	oing on and hat seems so difference so and selfthis work as assigned 2:30PM sts, disabicertain inhuts, and po	demands the trange." In , bodies the portraits he enlarge cuby the Direction 3:55PM  lity active erited transpular cultures."	ne story. In this nat often by people ltural and rector of  UN114  ists, and its and ure. How do	12
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	H118A I Rosemarie The eyes h seminar we elicit stawith disah aesthetic College with Enrollment Attributes  H120A I From the eothers have enhancing these medianum commopen only Enrollment	Cortraits  Garland-T  mang on, we will expanse. We wo  collities of views of riting.  Limit: 1  So: First M  Collutional evengenics move argued others. We will expanse to first-  munity?  to first-  Limit: 1	of Disa homson orking lore vi ill ask raw on embodim 2 fear Wri 1.0 ry Argu ovement about t e will ologies year st	writes that "staring is an interror to recognize what seems illegible, isual and literary portraits and seems." What kinds of stories are told a and challenge traditions of life we ment, disability, and difference? Of the early twentieth century to the uses of increasingly sophistical track representative arguments in sintersect with cultural values are tudents as assigned by the Director	order what seems unruly, elf-portraits of bodies mandout these bodies? How down triing and portraiture? Hopen only to first-year stock the present, scientists, ated technologies for preventics, the court, social and beliefs? How do they in	whats g know w rked by memoir ow does udents  T Th ethici enting moveme	oing on and hat seems so difference so and selfthis work as assigned 2:30PM sts, disabicertain inhuts, and po	demands the trange." In , bodies the portraits he enlarge cuby the Direction 3:55PM  lity active erited transpular cultures.	ne story. In this nat often by people ltural and rector of  UN114  ists, and its and ure. How do	12
	H118A I Rosemarie The eyes h seminar we elicit stawith disah aesthetic College with Enrollment Attributes  H120A I From the eothers have enhancing these medihuman commopen only Enrollment Attributes	Cortraits Garland-T mang on, we will expanse. We wo consider the construction of the c	of Disa homson orking lore vi ill ask raw on embodim 2 fear Wri 1.0 ry Argu ovement about t e will ologies year st 2 fear Wri	writes that "staring is an interror to recognize what seems illegible, isual and literary portraits and seems. What kinds of stories are told a and challenge traditions of life we ment, disability, and difference? Of the early twentieth century to the uses of increasingly sophistical track representative arguments in a intersect with cultural values are	order what seems unruly, elf-portraits of bodies mandout these bodies? How down triing and portraiture? Hopen only to first-year stock the present, scientists, ated technologies for preventics, the court, social and beliefs? How do they in	whats g know w rked by memoir ow does udents  T Th ethici enting moveme	oing on and hat seems so difference so and selfthis work as assigned 2:30PM sts, disabicertain inhuts, and po	demands the trange." In , bodies the portraits he enlarge cuby the Direction 3:55PM  lity active erited transpular cultures.	ne story. In this nat often by people ltural and rector of  UN114  ists, and its and ure. How do	12

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

	Cat Nbr	ClNbr	Sctn	Crd	Instructor(s)		Days	Start	End	Room	Enrld
	Attribut	es: Fir	st Yea	ar Wri	ting						
		1694	001		Shannan Hayes		M W	11:30AM	12:55PM		12
		1695	002		Shannan Hayes		M W	2:30PM	3:55PM		11
WRPR	H142A	Passin	g, Mix	ing,	(Re) Producing: Race & Intimacy	in American Discourse					
	In this	course,	stude	ents w	ill close-read narrative and fi	.lmic depictions of transcend:	ing, tr	ansgressing	, and viola	iting	
	racial bo	orders,	think	cing al	bout what these narratives refl	ect and what they produce whe	en it c	omes to und	erstandings	of race,	
	_		_		l look at the effects of both t	2 2	_				
			.vidual	LS, CO	nsidering what functions these	discourses play in larger sch	hemas o	f American	politics, i	deologies	
	and affe		_			51					
	_			-	year students as assigned by the	e Director of College Writing	g				
	Enrollmen				es First Year Writing Gende	or and Coviality Studios					
	ALLIDUL	2844	001		Connie McNair	<del>-</del>	T Th	10:00AM	11:25AM		13
		2846	001		Connie McNair		T Th	1:00PM	2:25PM		12
	771.4.63						1 111	1.00FM	Z.ZJFM		12
WRPR	H146A				<pre>ical Leadership: Soldier, Sage, r feared? May we commit a small</pre>	•	2 0502	tor good fo	x anaint	Chould	
					ible atrocities be remembered a						
					qures from ancient history: Soc		_				
					ts will hone their abilities in					. Guidea	
					first-year students as assigned				a wirting		
	persuasi	2819	-	_	Charles N. Kuper	-	M W	11:30AM	12:55PM		12
WRPR	H150A	Approa			erary Analysis						
					ns of the Writing Program to ac	dvance students' critical read	ding an	d analytica	l writing s	kills,	
					ifically towards introducing st		-	_	_		
			-	_	of its aims is to explore the b				_		
	sharing a	as they	do co	ommon	roots in the history of our lar	guage and its influences. The	e power	s and limit	s of langua	ige; ideas	
		_		nunity	, and the relation between pers	son and place; heroic endeavo:	r and t	he mystery	of evil; lo	ss and	
	of charac	cter an	ia comi	пантсу.					on and into		
					the themes to be tracked throu	-	erary r	epresentati	on and ince	rpretatio	n
	renovatio	on thes	se are	among	the themes to be tracked throusic, narrative, and poetry) and	igh various strategies of lite	_	-		-	n
	renovation in a vari	on thes iety of al peri	se are genre	among es (ep: Our goa	ic, narrative, and poetry) and al is to develop the vocabulary	ngh various strategies of lite modes (realism, allegory, and y, skills, and knowledge neces	d roman ssary t	ce), and ac o understan	ross a rang d not only	ge of how we	n
	renovation in a vari historica decide wh	on thes iety of al peri nat lit	se are genre ods. C erary	among es (ep: Our goa texts	ic, narrative, and poetry) and al is to develop the vocabulary mean, but also how literary to	ngh various strategies of lite modes (realism, allegory, and y, skills, and knowledge neces	d roman ssary t	ce), and ac o understan	ross a rang d not only	ge of how we	n
	renovation in a vari historica decide what students	on thes iety of al peri nat lit as ass	se are genre ods. Cerary	among es (ep: Our goa texts	ic, narrative, and poetry) and al is to develop the vocabulary	ngh various strategies of lite modes (realism, allegory, and y, skills, and knowledge neces	d roman ssary t	ce), and ac o understan	ross a rang d not only	ge of how we	n
	renovation in a variable to a	on thes iety of al peri nat lit as ass nt Limi	se are genre ods. Cerary signed	among es (ep: Our goo texts by the	ic, narrative, and poetry) and al is to develop the vocabulary mean, but also how literary to e Director of College Writing.	ngh various strategies of lite modes (realism, allegory, and y, skills, and knowledge neces	d roman ssary t	ce), and ac o understan	ross a rang d not only	ge of how we	n
	renovation in a vari historica decide what students	on thes iety of al peri nat lit as ass nt Limi es: Fir	se are genre ods. (cerary signed t: 12	among es (ep: Our god texts by the	ic, narrative, and poetry) and al is to develop the vocabulary mean, but also how literary to birector of College Writing.	agh various strategies of lite modes (realism, allegory, and ,, skills, and knowledge neces exts generate and contemplate	d roman ssary t meanin	ce), and ac o understan g. Open onl	ross a rang d not only y to first-	ge of how we year	
	renovation in a variable to a	on thes iety of al peri nat lit as ass nt Limi es: Fir 1519	se are genre ods. Cerary signed t: 12 rst Yea 001	among es (ep: Our good texts by the	ic, narrative, and poetry) and al is to develop the vocabulary mean, but also how literary to birector of College Writing.  ting Debora Sherman	agh various strategies of lite modes (realism, allegory, and ,, skills, and knowledge neces exts generate and contemplate	d roman ssary t meanin T Th	ce), and ac o understan g. Open onl 11:30AM	ross a rang d not only y to first- 12:55PM	ge of how we	12
	renovation in a variable to a	on thes iety of al peri hat lit as ass at Limi es: Fir 1519 1520	se are genre ods. Cerary signed t: 12 rst Year 001 002	among es (ep: Our good texts by the ar Write 1.0 1.0	ic, narrative, and poetry) and al is to develop the vocabulary mean, but also how literary to birector of College Writing.  ting Debora Sherman Danielle Allor	agh various strategies of lite modes (realism, allegory, and y, skills, and knowledge neces exts generate and contemplate	d roman ssary t meanin T Th T Th	ce), and ac o understan g. Open onl 11:30AM 2:30PM	ross a rang d not only y to first- 12:55PM 3:55PM	ge of how we year	12 12
	renovation in a variable varia	on thes iety of al peri nat lit as ass nt Limi es: Fir 1519 1520 1521	se are genre lods. Cerary signed t: 12 cst Year 001 002 003	among es (ep: Dur god texts by the ar Wri 1.0 1.0	ic, narrative, and poetry) and al is to develop the vocabulary mean, but also how literary to be Director of College Writing.  ting Debora Sherman Danielle Allor Alexander Millen	agh various strategies of lite modes (realism, allegory, and y, skills, and knowledge neces exts generate and contemplate	d roman ssary t meanin T Th	ce), and ac o understan g. Open onl 11:30AM	ross a rang d not only y to first- 12:55PM	ge of how we year	12
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# WRPR H154A Human Rights and the State

This course explores the tension between the law's dual obligation to protect individual rights and uphold the states right to govern, especially during times of crisis. Students will first consider the question, where do rights originate? Students will then consider primary sources that examine important concepts related to human rights: equal protection in wartime (the

# Haverford College Fall 2023 Course Guide

Subject	Cat Nbr ClNbr Sctn Crd Instructor(s)	Days	Start	End	Room	Enrld
	internment camp cases), protest (Martin Luther King, Jr.), patriotism (Frederick even, technology (Ruha Benjamin).	Douglass),	identity (	Audre Lorde	), and	
	Lottery Preference: First year students as assigned by the Director of College W:	riting.				
	Enrollment Limit: 12.00					
	Attributes: First Year Writing					
	2905 001 1.0 Patricia Kennedy	T Th	1:00PM	2:25PM		12
WRPR	H182A The American Family in Historical Perspective					
	Explores values, and stresses, as interfaced with realities of "family," e.g., Nat	tive America	an, Hispani	c, African	American;	
	Protestant, Jewish, Mormon and Catholic, North, South and West, over time; ritual	ls of birth,	, marriage,	illness, d	isability;	
	expectations of family "loyalty." Open only to first-year students as assigned by	y the Direct	cor of Coll	ege Writing	•	
	Enrollment Limit: 12					
	Attributes: First Year Writing					
	1731 001 1.0 Emma Lapsansky	T Th	11:30AM	12:55PM	ST0205	12

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