

Tufts University

COURSE OFFERINGS & COURSE DESCRIPTIONS

SPRING 2012



Tufts University
Arts, Sciences, & Engineering
Spring 2012 Course Listing

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Please note the following:

ROTC: Non-Credited Military Science Leadership courses are available at MIT. For more information and course listings call 617-253-4471 or email smagner@mit.edu or btsulliv@mit.edu.

Studio Art Museum School , 230 the Fenway.

Additional studio art courses are available at the Museum School. For information and course listings call 617-267-1219. Students who intend to register for weekday (FAMD) courses at the Museum School should call for current registration times.

Please Pass On and Recycle this Publication

Tufts University
Arts, Sciences, & Engineering
Spring 2012 Course Listing

Dear Students,

Welcome to our new course listing. This booklet contains all of the courses that will be offered for Spring 2012 along with course descriptions as of Oct. 18, 2011. You will find a block schedule, the final exam schedule and the lists of requirements for Liberal Arts and Engineering Undergraduates.

As always the most up to date information can be found online at: <http://studentservices.tufts.edu/registration.htm>.

All continuing graduate students and undergraduate students must meet with their academic advisor prior to registration. Your advisor's approval (posted electronically by your advisor after you meet to discuss your courses) is **required** for you to process your registration in the online registration system. Please do not forget to make an appointment **NOW** to see your advisor

You can access your registration date and time via SIS Online at: <https://aseonline.tufts.edu/>. You should have received an email informing you that your registration time and status is available.

Online registration for Spring 2012 is accessed by using your SIS Online ID and PIN number at <https://aseonline.tufts.edu/>. Instructions for using Web registration and accessing the *Tufts Bulletin* may be found at the Student Services website: <http://studentservices.tufts.edu/registration.htm>.

If you have questions about on-line registration, visit or e-mail the Student Services Desk at StudentServices@ase.tufts.edu or by phone at 617-627-2000.

Wishing you success with the semester ahead,



JoAnn Jack
Registrar, Arts, Sciences, & Engineering

IMPORTANT DATES SPRING 2012

- Thursday, February 2, 2012 LAST day to Add classes online by 5PM.
- Thursday, February 23, 2012 LAST day for Seniors, Juniors, and Sophomores to drop a course without record by 5PM.
- Thursday, February 23, 2012 Last day to declare Pass/Fail by 5PM
- Thursday, March 1, 2012 Last day to make up Incompletes from Fall 2011 by 5PM.
- Thursday, April 5, 2012 Last day for 1st years to DROP without record by 5PM.

NOTE: All deadline times are Boston MA time.

Registration for spring 2012 will take place November 7th -18th 2011.

It will reopen on Dec. 5, 2011.

Please see Registrar's website for details at <http://uss.tufts.edu/registrar/>.

For other important dates see the Academic Calendar at <http://uss.tufts.edu/stuserv/AcadCal/default.asp>

CLASSROOM ABBREVIATIONS Spring 2012

ADIK	Aidekman Complex	JAXL	Jackson Complex
ANDN	Anderson Hall	LANE	Lane Hall
BARN	Barnum/Dana Hall	LINF	Lincoln-Filene Center
BRAK	Braker Hall	OLIN	Olin Complex
BR-P	Bromfield-Pearson Hall	MINR	Miner Hall
BSOT	26 Winthrop Street	PRSN	Pearson Hall
CABT	Cabot Auditorium	PSYB	Psychology Building
COHN	Cohen Auditorium	RABB	Rabb rm, Lincoln-Filene
CRAN	Crane Room, Paige Hall	ROBN	Robinson Hall
EAST	East Hall	SCIN	4 Colby Street
EATN	Eaton Hall	SOPH	Sophia Gordon
ELPB	Eliot-Pearson Complex	TALB	Talbot Avenue
HLGN	Halligan Hall	TERR	Terrace rm, Paig Hall
MUSC	Music Building	TSCH	Tisch Library

Final Exam Block Schedule
Spring 2012

	8:30am-10:30am	12:00pm-2:00pm	3:30pm-5:30pm	7:00pm-9:00pm
Friday, May 4, 2012	Math 5, 11, 12, 46	F BLOCK	H BLOCK	GEOLOGY
Monday, May 7, 2012	Math 6, 13, 38	G BLOCK	E BLOCK	M BLOCK
Tuesday, May 8, 2012	FRENCH 1, 2, 3, 4 SPANISH 1, 2, 3, 4 ITALIAN 1, 2, 3, 4 Chinese 1,2,3,4	C BLOCK	JAPANESE	PHYSICS 11 & 12
Wednesday, May 9, 2012	Chemistry 1 & 2	K BLOCK	L BLOCK	P or R BLOCK
Thursday, May 10, 2012	B Block	D BLOCK	J BLOCK	ES BLOCK
Friday, May 11, 2012	I	N or Q BLOCK	A BLOCK	OPEN

All courses planning on a final exam must submit a request for a classroom via e-mail to reservations2@ase.tufts.edu Courses given in Seminar blocks (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13) along with courses given at arranged times will hold examination at a mutually convenient time agreed upon by the instructor and students.

For courses holding their exam in their same classroom, based on the Final Exam Block Schedule, requests must be submitted by Feb. 23, 2012. For courses requesting different times, rooms or dates, requests must be submitted by April 5, 2012. All requests for classrooms during Reading Period and Final Period must be submitted by April 5, 2012.

Africa in the New World

ANW 0090

AFR&NEW WRLD INTRD PRJT

Africa & New World Interdisciplinary Project. This is a .5 credit course.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00123	ANW 009001	ARR	Aymer, Paula	0.5	Permission Of Instructor
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ANW 0091

AFR&NEW WRLD INTRD PRJT

The project required of students electing the interdisciplinary minor option. Either one-half or one course credit will be given at the discretion of the faculty member involved.

Prerequisites: Permission of instructor.

Sections

00124	ANW 009101	ARR	Aymer, Paula	1.0	Permission Of Instructor
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ANW 0095

AFR&NEW WRLD INTRD THESI

The project required of students electing the interdisciplinary minor with the thesis option. One course credit.

Prerequisites: Permission of instructor.

Sections

00125	ANW 009501	ARR	Aymer, Paula	1.0	Permission Of Instructor
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American Studies

AMER0012

RACE IN AMERICA

An examination of the meanings of race in modern America, the ways in which racism as a system functions, the root causes and consequences of racist ideologies, and current and future activist approaches to achieving social change. Course material is multicultural in focus, with attention to Native American, Asian American, African American, European American, and Latino/a perspectives. The course is interdisciplinary in approach, and active student participation is an important component.

Prerequisites: ENG 1 or equivalent.

Sections

00066	AMER001201	ARR	Wu, Jean Y.	1.0	High Demand, Amer Majors Have Priority
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AMER0099

INTERNSHIP-AMER STUDIES

Internships (strictly for AMER majors) are available in a wide range of public and private organizations and institutions (e.g., media, museums, social service agencies). Interns are required to work a minimum of twelve hours per week, keep a journal, and email regularly the Director of American Studies or other AMER faculty member mentor. Students may take an internship pass-fail; however, to receive a letter grade the student must write a ten-page paper to be submitted to the Director of American Studies (or AMER faculty member mentor).

Prerequisites: AMER majors only and permission of instructor.

Sections

00068	AMER009901	ARR	Sharpe, Christi	1.0	Permission Of Instructor
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AMER0180

SP TOP: INTEGRATIVE SEM

Designed primarily for majors (but open to adequately prepared non-majors), Integrative Seminars have a defined thematic focus and limited enrollment to allow for intensive discussions and collaborative learning. Students may take more than one Integrative Seminar, but a course counted towards the Integrative Seminar requirement for the American Studies major may not also count towards the major's cluster.

Sections

LATINO CINEMA IMAG

04530	AMER018001	7+	Pacini, Deborah	1.0	Prq: Jr. Stand; C-list Anth 163-01
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RELIGION, RACE & NATION

04551	AMER018002	2	Curtis, Heather	1.0	Dual Instructors Curtis+hicks; C-list Rel 192-27
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WAR & AMERICAN VALUES

04548	AMER018003	K+	Takayoshi, Ichi	1.0	Clsit Eng 0172 And Pjs 0172
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AMER0186

CRTS: ISSUES IN URBAN ED

(Cross-listed as ED 167). An advanced theoretical seminar on race, class, gender and the political economy of urban schooling. Topics studied may include, but are not limited to welfare, law, labor policy, school policy.

Prerequisites: Prerequisites: Junior standing and ED161 or consent.

Sections

00077	AMER018601	6+	Vaught, Sabina	1.0	C-list Ed 167
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AMER0193

INDEPENDENT STUDY

Guided individual study of an approved topic. Before pursuing such study, the student expected to have taken regular courses related to the topic. Credit as arranged. No more than one Independent Study course may be applied to the American Studies major. Please see departmental website for details.

Sections

00078	AMER019301	ARR	Sharpe, Christi	1.0	
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AMER0194

SPECIAL TOPICS

Courses offered on an ad hoc basis and open to graduate and advanced undergraduate students.

Please see departmental website for specific details.

Prerequisites: Permission of Instructor.

Sections

MASCULINITIES/URBAN SCHL

04546	AMER019401	12+	Wright, Brian L	1.0	Clist Ed 016601
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HISTORY OF REL IN AMER

04318	AMER019402	G+	Curtis, Heather	1.0	Clist Rel 40-01 And Hist 31-01
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LATINO ART & VIS CULT

04549	AMER019403	H+TR	Zavala, Adriana	1.0	Clist Fah 0086/0186
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WRITING IN THE BEAT GENE

04547	AMER019404	ARR	Johnson, Ronna	1.0	W 0430pm-0715p m
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AFRICAN AM THEATRE & FILM

04608	AMER019405	F+	Ndounou, Monica	1.0	Tues & Thurs Noon-1:15pm: Xlist Dr 0048
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PERFORM AMER; EXPL IDEN

04613	AMER019406	0	Ndounou, Monica	1.0	X List Dr 94-04
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AMER0198

SENIOR SPECIAL PROJECT

The Senior Special Project (SSP) will include a preparation of an analytic essay, a research paper, or a project such as an oral history, a life story, a film, or a play. The SSP may also be based, in part, on a documented internship, or on leading an Exploration. The SSP should utilize more than one disciplinary approach and should seek to develop connections and integration among the disciplines employed. Detailed information is available in the American Studies office.

Sections

00081	AMER019801	13+	Chen, Thomas	1.0	Amer Seniors Only
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AMER0199

SENIOR HONORS THESIS

Senior Honors Thesis.

Please see departmental website for specific details.

Sections

00082	AMER019901	13+	Chen, Thomas	0.0	Amer Seniors Only, Year Long,
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Anthropology

ANTH0016

INTRO LATINO CULTURES

Survey of the social and cultural histories of the various Latino communities currently residing in the United States. Topics include a variety of important issues affecting U.S. Latinos, such as immigration, bilingual education, citizenship and political participation, race, class, gender, ethnicity, and representations in the media.

Sections

00083 ANTH001601 F+TR Pacini, Deborah 1.0

ANTH0020

GLOBAL CITIES

Introductory-level urban anthropology class exploring cities as intersections of people, ideas, capital, and the physical environment. Themes include anthropological understandings of space and place-making; utopic and dystopic urban visions of the city; urban mobility; cities as nodes in global environments, economies, and networks of people and production; sensory experience and expressive culture in cities; urban "nature" (e.g., parks); difference and inequality in urban landscapes; the growth of urban populations and megacities; and tensions between the city as planned or conceptualized and the city as a lived experience.

Sections

00084 ANTH002001 J+ Stanton, Cathy 1.0

ANTH0040

BIOLOGICAL ANTHROPOLOGY

Human biological diversity surrounds us: We vary in size, shape and color; in the ways that our bodies respond to heat, cold, food, and workload; and in our fundamental genetic makeup. Biological Anthropology introduces the student to these problems of biological diversity in living and prehistoric populations. Basic evolutionary principles are applied to explain the origins, mechanisms and trends of this human diversity. Topics include the human and primate fossil record, the interplay of biology and culture, adaptation to environmental stress, the evolutionary significance of infectious disease, including AIDS, smallpox, cholera, and malaria; basic Mendelian and population genetics, primate behavior, human growth, and the evolutionary meaning of complex behaviors.

Sections

00085 ANTH004001 I+ Bailey, Stephen 1.0

ANTH0099

INTERNSHIP IN ANTH

Supervised internship in wide range of community organizations, health organizations, museums, governmental and non-governmental organizations. Twelve to fifteen hours work per week. Written assignments, with supporting readings, to place internship in critical analytical frame.

Prerequisites: Anthropology majors only.

Sections

00086 ANTH009901 ARR Staff 1.0 Permission Of Instructor; Reg. In Eaton 302

ANTH0117

CHILDREN & YOUTH AFRICA

Examination of the changing lives of children and youth in postcolonial Africa, approaching young people as cultural, political, and economic innovators. Topics include gendered challenges of becoming an adult in contemporary Africa; globalization and transformations in sexuality; memory and cultural production; children and youth in war zones; young people's responses to UN/NGOs; children's rights and citizenship in postcolonial states.

Sections

00087 ANTH011701 G+ Shaw, Rosalind 1.0

ANTH0128

MESOAMERICAN ARCHAEOLOGY

(Cross-listed as ARCH 128.) An introduction to the archaeology of pre-Columbian cultures of Belize, Guatemala, Honduras, and Mexico. Focus is on the origins of village life, the development of social complexity, emergence of states, ritual, religion, and culture collapse. Cultures studied include the Olmec, the Maya, the Zapotec, and the Aztec through artifacts, architecture, murals, inscribed monuments, hieroglyphs, and codices.

Sections

00088 ANTH012801 M+ Sullivan, Laure 1.0 Prq: Anth 30 Or Consent/c-1st Arch 128-01

ANTH0130

ANTHROPOLOGICAL THOUGHT

The development of anthropological thought in American, British, and French schools of the nineteenth and twentieth centuries. Historical, evolutionary, materialist, functionalist, structuralist, and symbolic perspectives.

Prerequisites: One introductory anthropology course or permission of the instructor.

Sections

04329 ANTH013001 L+ Stanton, Cathy 1.0 Prq: 1 Anth Course And Jr. Standing, Or Permission

ANTH0144

POPULAR CULTURES MIDEAST

(Cross-listed as ILVS 144). Examines the contemporary Middle East through its popular cultures and introduces anthropological methods for studying media. Considers multiple meanings of the "popular" in the course title. Topics include: (1) non-electronic expressive practices, (2) media such as television, cinema, music, or websites that may consolidate or contest state power, (3) cultural forms such as Arab hip-hop that are the product of global processes, some of which reframe traditional forms, and (4) religious popular cultures.

Prerequisites: One course in either Anthropology or the Middle East, or consent.

Sections

04330 ANTH014401 E+MW Bishara, Amahl 1.0

ANTH0150

HUMAN EVOLUTION

Current problems in hominid evolution and adaptation. Topics include hominid origins; paleoecology; competing molecular and anatomical models of *H. sapiens*; relations between technology, language, and neuroanatomical evolution; range of morphological and physiological variation over time and space; and adaptation to extreme environments.

Prerequisites: ANTH 20 or permission of instructor.

Sections

00094 ANTH015001 ARR Bailey, Stephen 1.0 Prq:anth 40 Or Eqv. Or Permission; Meets Eaton 301

ANTH0163

LATINO CINEMA IMAG

Since the inception of the American film industry, U.S. Latinos have been (mis)represented in Hollywood feature films intended primarily for non-Latino audiences. In this course, students will examine how images of Latinos and their communities have been constructed in Hollywood films produced from the silent era to the present. Students will contrast these images with those constructed by Latino filmmakers when they began making films in the 1970s, contesting Hollywood stereotypes with more accurate and nuanced constructions of their communities. Weekly film viewings illustrate how filmmakers of different ethnic/racial/national backgrounds employ cinematic images to express their views on issues relevant to the Latino experience such as immigration, language choice, changing gender roles, racial and ethnic identity, and inter-ethnic relations. Readings will familiarize students with the emergent body of Latino-produced film criticism.

Sections

Anthropology

00096 ANTH016301 7+ Pacini, Deborah 1.0 Prq: Jr. Stand; C-list Amer 180-01

ANTH0185

CURRENT TOPICS ANTH

Detailed analysis of a selected issue in contemporary sociocultural anthropology, linguistics, physical anthropology, or archaeology. Open to advanced undergraduate majors and qualified graduate students.

Prerequisites: Permission of instructor.

Sections

TOURISM & ETHNOGRAPHY

04616 ANTH018504 5 Stanton, Cathy 1.0 Prq: Jr. Stand+1 Soc Cult Anth Crs, Or Permission

ANTHRO OF THE STATE

04515 ANTH018509 6+ Bishara, Amahl 1.0 Meets In Eaton 301

ANTH0190

DIRECTED READING ANTH

Please see departmental website for specific details.

Prerequisites: Consent and at least one ANTH course.

Sections

00099 ANTH019001 ARR Staff 0.0-3.0 Permission Of Instructor; Reg. In Eaton 302

ANTH0191

DIRECTED READING

Directed Reading.

Please see departmental website for specific details.

Prerequisites: Permission of instructor. Credit to be arranged.

Sections

04332 ANTH019101 ARR Staff 1.0 Permission Of Instructor; Reg. In Eaton 302

ANTH0197

DIRECTED RESEARCH

Areas for directed research may include physical anthropology, social anthropology, and archaeology.

Please see departmental website for specific details.

Prerequisites: Permission of instructor. Credit to be arranged.

Sections

00104 ANTH019701 ARR Staff 1.0 Permission Of Instructor; Reg. In Eaton 302

ANTH0198

APPRENTICESHIP ANTH RES

An intensive application of research techniques to projects currently under way with direct supervision.

Please see departmental website for specific details.

Prerequisites: Permission of instructor. Credit to be arranged.

Sections

00105 ANTH019801 ARR Staff 1.0 Permission Of Instructor; Reg. In Eaton 302

ANTH0199
SENIOR HONORS THESIS

Senior Honors Thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00106	ANTH019901	ARR	Bailey, Stephen	1.0	Permission Of Instructor; Reg. In Eaton 302
00107	ANTH019902	ARR	Bailey, Stephen	1.0	Permission Of Instructor; Reg. In Eaton 302
00108	ANTH019903	ARR	Guss, David M	1.0	Permission Of Instructor; Reg. In Eaton 302
00109	ANTH019904	ARR	Guss, David M	1.0	Permission Of Instructor; Reg. In Eaton 302
00110	ANTH019905	ARR	Pacini, Deborah	1.0	Permission Of Instructor; Reg. In Eaton 302
04333	ANTH019906	ARR	Pacini, Deborah	1.0	Permission Of Instructor; Reg. In Eaton 302
04334	ANTH019907	ARR	Pinto, Sarah	1.0	Permission Of Instructor; Reg. In Eaton 302
04335	ANTH019908	ARR	Pinto, Sarah	1.0	Permission Of Instructor; Reg. In Eaton 302
04336	ANTH019909	ARR	Shaw, Rosalind	1.0	Permission Of Instructor; Reg. In Eaton 302
04337	ANTH019910	ARR	Shaw, Rosalind	1.0	Permission Of Instructor; Reg. In Eaton 302
04338	ANTH019911	ARR	Stanton, Cathy	1.0	Permission Of Instructor; Reg. In Eaton 302
04340	ANTH019912	ARR	Stanton, Cathy	1.0	Permission Of Instructor; Reg. In Eaton 302
04341	ANTH019913	ARR	Sullivan, Laure	1.0	Permission Of Instructor; Reg. In Eaton 302
04342	ANTH019914	ARR	Sullivan, Laure	1.0	Permission Of Instructor; Reg. In Eaton 302
04343	ANTH019915	ARR	Bishara, Amahl	1.0	Permission Of Instructor; Reg. In Eaton 302
04344	ANTH019916	ARR	Bishara, Amahl	1.0	Permission Of Instructor; Reg. In Eaton 302

Arabic

ARB 0002

ELEM MOD STANDARD ARABIC

Continuation of Elementary Modern Standard Arabic I. Communicative approach through development of four language skills: reading, writing, listening, and speaking.

Prerequisites: ARB 1 or equivalent.

Sections

00126	ARB 0002A	ARR	Jajji, Fadi	1.0	K+if, Mw 4:30-5:45pm,f 3:30-4:20pm
00127	ARB 0002B	H+HF	Gunduz, Haci Os	1.0	
04113	ARB 0002C	B+BF	Gunduz, Haci Os	1.0	
00128	ARB 0002D	ARR	Jajji, Fadi	1.0	Class Meets E+cf,mw10:30-1 1:45am,f9:30-1 0:20am
00129	ARB 0002E	L+IF	Gunduz, Haci Os	1.0	

ARB 0004

INTERMED STD ARABIC II

A continuation of Elementary Modern Standard Arabic. Arabic grammar, reading and discussion of selected texts.

Prerequisites: ARB 1, 2.

Sections

00131	ARB 0004A	JMJ+	Abdul-aziz, Ran	1.0	
00132	ARB 0004B	L+MM	Abdul-aziz, Ran	1.0	
00133	ARB 0004C	QMN+	Zendah, Souhad	1.0	

ARB 0022

ARABIC READING,COMP,CONV

Emphasis on active control of grammar and vocabulary. Intensive practice in reading, writing, speaking, and translating.

Prerequisites: ARB 4 or equivalent.

Sections

00134	ARB 0022A	I+IF	El Nady, Rabab	1.0	Third Year Arabic
00135	ARB 0022B	G+GF	Jajji, Fadi	1.0	Third Year Arabic

ARB 0062

MODERN ARABIC LITERATURE

Modern Arabic Literature. Please see departmental website for specific details.

Sections

00136	ARB 006202	I+MW	Alwan, Mohammed	1.0	In English
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ARB 0063

ARABIAN NIGHTS

A survey of the composition, structure, history, and importance of the Arabian Nights, the famous tales narrated by Shahrazad during 1001 nights, with selected reading of the most important tales. The dissemination of the tales and their transmission to other regions of the world including their impact on other cultures as reflected in writing, art, and film.

Sections

00137	ARB 006301	K+	Alwan, Mohammed	1.0	In English
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ARB 0065

ARAB TRAVEL LITERATURE

(Cross-listed as ILVS 65) An overview of travel writing as a literary form of expression. Within Arab and Muslim cultural contexts, analysis of how travel literature expresses inquisitiveness at the encounter with a different culture. Examines how the traveler-writer endeavors to decipher this different culture in the light of her or his own experience and knowledge. Comparison of travel writing from these regions to the genre in other cultural contexts. Issues such as tolerance/intolerance, transience/permanence, and universal/particular as they relate to the literary genres of travel writing in primary and secondary readings. In English.

Sections

00138	ARB 006501	G+	Alwan, Mohammed	1.0	In English, C-Ist Ilvs 6501
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ARB 0092

SPECIAL TOPICS

Selected topics in Arabic literature and culture. Conducted in English. Recent offerings include Arab Culture Today, Love and Literature in Islam: Human and Divine, War Memories: Arab Writing from 1975 to the Present, and The Literary Qur'an.

Please see departmental website for specific details.

Sections

00139	ARB 009205	ARR	Roustom, Kareem	1.0	C-Ist Mus 92-01
PALESTINIAN LIT & CINEMA					
04114	ARB 009207	9+	Staff	1.0	In English;c-Ist Ilvs 9207

ARB 0094

DIR STUDY: LANG OR LIT

Guided independent study of an approved topic.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00141	ARB 009401	ARR	Abdul-aziz, Ran	1.0	Permission Of Instructor
00142	ARB 009402		Alwan, Mohammed	1.0	Permission Of Instructor
00144	ARB 009404		Jajji, Fadi	1.0	Permission Of Instructor

ARB 0122

ADVANCED MOD STD ARABIC

Intensive practice in speaking, reading, writing and translating Modern Standard Arabic. Focus on contemporary Arab culture through Arabic media. Materials selected from newspapers, short fiction, films, TV programs and advanced textbooks. Written and oral presentations.

Prerequisites: ARB 121 or equivalent.

Sections

00145	ARB 012201	G+GF	El Nady, Rabab	1.0	
00146	ARB 012202	ARR	El Nady, Rabab	1.0	Class Meets:mw 10:30-11:45,f 9:30-10:20

ARB 0194

ADV DIR STDY: LANG/LIT

Guided independent study in Arabic literature and culture with readings in Arabic.

Please see departmental website for specific details.

Sections

00151	ARB 019401	ARR	Abdul-aziz, Ran	1.0	Permission Of Instructor
00152	ARB 019402		Alwan, Mohammed	1.0	Permission Of Instructor
00154	ARB 019404		Jajji, Fadi	1.0	Permission Of Instructor
00155	ARB 019405		El Nady, Rabab	1.0	

Archaeology

ARCH0027

00163 ARCH019401 ARR Proctor, David 1.0

CLASSICAL ARCHAEOLOGY

(Cross-listed as FAH 19 and CLS 27.) The great sites and monuments of the ancient Mediterranean from preclassical times to the fall of the Roman Empire; their discovery and interpretation; their place in the reconstruction of the social, political, and artistic history of their time. Topics include the excavation and analysis of materials from Troy, Bronze Age Crete, and Mycenae; the archaeological evidence of the rise of Greece, particularly Athens, in the first half of the first millennium B.C.; the misunderstood contribution of Hellenism in art, literature, and civilization; the Etruscan phenomenon; the essentially Roman qualities of the first four centuries of the Christian era; and the archaeological and documentary evidence for the transition from paganism to Christianity. Some attention to the disciplines of epigraphy and numismatics, as well as to the peripheral island civilizations of Malta, Sardinia, and Cyprus.

Sections

00159	ARCH002701	F+TR	Harrington, Mat	1.0	Mandatory Recitation, c-1st Cls 27 & Fah 19
04215	ARCH0027RA	FF	Staff	0.0	
00157	ARCH0027RB	EF	Harrington, Mat	0.0	C-1st Cls 27-rb & Fah 19-rb
00158	ARCH0027RC	NR	Harrington, Mat	0.0	C-1st Cls 27-rc & Fah 19-rc
04622	ARCH0027RD	JR	Harrington, Mat	0.0	
04625	ARCH0027RE	LR	Harrington, Mat	0.0	
04628	ARCH0027RG	CF	Harrington, Mat	0.0	

ARCH0128

MESOAMERICAN ARCHAEOLOGY

(Cross-listed as ANTH 128.) An introduction to the archaeology of pre-Columbian cultures of Belize, Guatemala, Honduras, and Mexico. Focus is on the origins of village life, the development of social complexity, emergence of states, ritual, religion, and culture collapse. Cultures studied include the Olmec, the Maya, the Zapotec, and the Aztec through artifacts, architecture, murals, inscribed monuments, hieroglyphs, and codices.

Sections

00160	ARCH012801	M+	Sullivan, Laure	1.0	Anth 30 Or Consent, c-1st Anth 128
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ARCH0168

ROMAN ART & ARCHAEOLOGY

(Cross-listed as FAH106 and CLS 168.) The study of Imperial Rome and its provinces, with attention to the Hellenistic background and subsequent contributions to urban development, architecture, sculpture, or painting. Museum trips will be part of the course.

Prerequisites: ARCH/CLS 27, FAH 1, or permission of instructor.

Sections

04620	ARCH016801	M+	Harrington, Mat	1.0	
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ARCH0190

MATERIALS IN ARCH & ANTH

Intensive study of materials encountered in archaeological and anthropological investigations. Topics change every semester and include metals, ceramics, lithics, and plant fossils. Taught on local collaborating campuses.

Prerequisites: ARCH/CLS 27 or ARCH/ANTH 30, and permission of instructor.

Sections

00162	ARCH019001	ARR	Ridge, John C	1.0	
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ARCH0194

SEN HONORS THESIS ARCH

Intensive investigation designed and carried out by the student, culminating in a written thesis and oral defense under the supervision of a thesis adviser. Usually two semesters.

Please see departmental website for specific details.

Prerequisites: Archaeology major and permission of instructor.

Sections

Art History

FAH 0002

ART HISTORY 1700-PRESENT

(SPRING 2012 & BEYOND). (Cross-listed as PJS 2). Major monuments and themes of world art and architecture from 1700 to the present, with emphasis on the function of art in society, politics, technology, and commerce; art and the idea of the modern; nature and abstraction. Tools and approaches to analyze and understand the language of the visual arts and how art affects us today. Includes field trips to local museums.

Sections

01827	FAH 000201	EMW	Mctighe, Monica	1.0	Reg For Mandatory Rct,2-ra Thru Ri; C-list Pjs2
04174	FAH 0002RA	MM	Staff	0.0	
04175	FAH 0002RB	FT	Staff	0.0	
04176	FAH 0002RC	LT	Staff	0.0	
04177	FAH 0002RD	IW	Staff	0.0	
04178	FAH 0002RE	AR	Staff	0.0	
04179	FAH 0002RF	JR	Staff	0.0	
04180	FAH 0002RG	EF	Staff	0.0	

FAH 0013

THE ARTS OF CHINA

Survey of Chinese painting, sculpture, metalwork, ceramics, and architecture from Neolithic times through the Ch'ing dynasty, with emphasis on major achievements of each epoch. Offered in alternate years.

Sections

04181	FAH 001301	1	Staff	1.0	Fulfills World Civ Req.
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FAH 0019

CLASSICAL ARCHAEOLOGY

(Cross-listed as ARCH 27 and CLS 27.) The great sites and monuments of the ancient Mediterranean from preclassical times to the fall of the Roman Empire; their discovery and interpretation; their place in the reconstruction of the social, political, and artistic history of their time. Topics include the excavation and analysis of materials from Troy, Bronze Age Crete, and Mycenae; the archaeological evidence of the rise of Greece, particularly Athens, in the first half of the first millennium B.C.; the misunderstood contribution of Hellenism in art, literature, and civilization; the Etruscan phenomenon; the essentially Roman qualities of the first four centuries of the Christian era; and the archaeological and documentary evidence for the transition from paganism to Christianity. Some attention to the disciplines of epigraphy and numismatics, as well as to the peripheral island civilizations of Malta, Sardinia, and Cyprus. Spring.

Sections

01831	FAH 001901	F+TR	Harrington, Mat	1.0	C-list Cls 27*, Arch 27
04216	FAH 0019RA	FF	Staff	1.0	
04640	FAH 0019RB	EF	Harrington, Mat	0.0	
04635	FAH 0019RC	NR	Harrington, Mat	0.0	C-list Arch 0027-rc And Cls 27-rc
04623	FAH 0019RD	JR	Harrington, Mat	0.0	
04626	FAH 0019RE	LR	Harrington, Mat	0.0	
04629	FAH 0019RG	CF	Harrington, Mat	0.0	

FAH 0025

MEDIEVAL ARCHITECTURE

(Cross-listed as REL 25) Social histories of medieval buildings from c.300 - c. 1400 CE., with particular attention to space, audience and experience. Course themes include: architecture and remembrance in the early Christian period; liturgy and ritual; gendered spaces in medieval monasteries; architects, masons and engineering; castles and the ideology of conquest; late medieval civic architecture; timber/stone construction; symbolism in the Gothic cathedral; and cross-cultural forms. May be taken at 100 level with consent.

Sections

04182	FAH 002501	H+	Overbey, Karen	1.0	Undergrad Pre-req: Fah 1 Or Fah 8; C-list Rel 25
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FAH 0028

MEDIEVAL ART MEDITERRANE

(Cross-listed as REL 28.) Integrated study of the shared art and culture of the Mediterranean from late antiquity through medieval times (3rd – 13th centuries CE). Architecture, painting, mosaic and luxury objects will be considered with a focus on continuities and dynamic cultural intersections across religious and political boundaries in European, Islamic, and Byzantine realms. Topics include the early church, synagogue, and mosque; figural and non-figural imagery in Pagan, Jewish, Christian, and Islamic contexts; relationships between secular and sacred and between majority and minority cultures. (May be taken at the 100 level by advanced students for which research papers are required.)

Sections

04183	FAH 002801	J+	Hoffman, Eva R	1.0	Lower Lvl Of Dual Lvl Course 28/128; C-list Rel 28
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FAH 0034

RENAISSANCE VENICE

Painting, sculpture, and architecture in the "most serene republic" of Venice, 1400-1600. Elite patrons, confraternal piety, wealth from the Levant, and a taste for pleasure provide some framing contexts for Venetian subject matter ranging from altarpieces to sensuous female nudes. Artists to be considered include Bellini, Giorgione, Titian, Sansovino, Palladio, and Tintoretto. (May be taken at 100 level with consent; see below.)

Sections

04191	FAH 003401	F+TR	Baskins, Criste	1.0	Lower Lvl Of Dual Lvl Course 34/134
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FAH 0052

PICASSO TO POLLOCK

The Cubist revolution of Picasso; German Expressionism from Kirchner to Beckmann; the Russian avant-garde; the languages of abstraction throughout Europe, from Kandinsky in Russia, to Mondrian in Holland; the reaction to World War 1 in the Dada and Surrealist movement; the Bauhaus and its influence; the idea of the avant-garde. The shift from Europe to America after World War II and the development of the Abstract Expressionism of Pollack and others. (May be taken at the 100-level.)

Sections

04194	FAH 005201	L+	Esielonis, Kary	1.0	Lower Level Of Dual Lvl Course 52/152
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FAH 0061

AMERICAN ART 1776-1900

Survey of painting, sculpture, and graphic art from the seventeenth century to World War I. The wealth of original material in the Boston area is especially valuable to the course. Frequent field trips are scheduled and lectures held at the Museum of Fine Arts. (May be taken at 100 level with permission of instructor; see below.)

Sections

01836	FAH 006101	A+	Rosenberg, Eric	1.0	Lower Level Of Dual Level Course 0061/0161
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FAH 0070

CONTEMP ARTS OF AFRICA

Examination of African art since the end of colonialism. Consideration of sculpture, painting, performance, film, and architecture. Emphasis on the changing meanings of art within different African contexts. Exploration of the tension between the tribal and the (post)modern with respect to the advent of national cultures and outside factors. (May be taken at 100 level with consent; see below.)

Sections

04199	FAH 007001	G+	Probst, Peter	1.0	Lwr Lvl Of Dual Lvl Crs 70/710, Meets Wrld Civ Req
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Art History

**FAH 0081
20TH CENTURY MEXICAN ART**

The dominant art forms of twentieth-century Mexico including post-revolutionary muralism and socially-concerned representational art; movements, artists, and visual genre outside of the mural school including abstraction, surrealism, photography, print culture, and film. The influence of politics, class, race, and gender on the production of art in Mexico. Art by Mexican-American artists in the U.S., and the effects of globalization and the art market on contemporary Mexican art. (May be taken at 100 level with consent; see below.)

Sections

04264	FAH 008101	I+	Zavala, Adriana	1.0	Lwr Lvl Dual Lvl Crs 81/181; Meets World Civ Req
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**FAH 0086
LATINO ART & VIS CULT**

Representations of Latinos and by Latinos across a broad range of media, with emphasis on contemporary art and film/television, but including literature and music. Popularity and increase of Latino culture in the U.S. in the context of ongoing debates about immigration, national security, and shifting demographics. Key topics include the cultural politics of representation, the relationship of contemporary Latino artists to the mainstream art world, debates about visual art as a vehicle for the expression of cultural identity, the role of gender, sexuality, class, and ethnicity in creative expression, the relationship between Latino culture and the mainstream, the diversity of the Latino community, how self-representation informs political dissent, and an examination of Latinidad as an affirmative cultural construction for people of Latin American descent in the U.S. No prerequisites. (May be taken at the 100-level.)

Sections

04269	FAH 008601	H+TR	Zavala, Adriana	1.0	C-list Amer 194-03; Meets Wrl Civ Req
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**FAH 0092
SPECIAL TOPICS**

Special Topics.

Please see departmental website for specific details.

Sections

THE AMERICAN SUBURB

01837	FAH 009201	L+	Staff	1.0	Lower Level Of Dual Level Course 92/192
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**FAH 0098
INTEGRATIVE PROJECT SEM**

A spring semester seminar required of all senior architectural studies majors.

Prerequisites: Open only to senior architectural studies majors. May be registered for by civil engineering double majors in architectural studies as CEE 99 (Internship in Civil and Environmental Engineering) in consultation with Professors Abramson and Sanayei.

Sections

01840	FAH 009801	2	Abramson, Danie	1.0	Open Only To Senior Architectural Studies Major
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**FAH 0106
ROMAN ART & ARCHAEOLOGY**

(Cross-listed as ARCH 168 and CLS 168.) The study of Imperial Rome and its provinces, with attention to the Hellenistic background and subsequent contributions to urban development, architecture, sculpture, or painting. Museum trips will be part of the course.

Prerequisites: CLS 0027, FAH 0001 or permission of instructor.

Sections

04618	FAH 010601	M+	Harrington, Mat	1.0	Prereq: Cls 27/arch 27/fah 19 Or Consent
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**FAH 0122
ICONOCLASM&ICONOPHOBIA**

(Cross-listed as REL 122.) The proscription of representational images in Jewish, Christian, and Islamic ideologies, and resulting iconic modes of expression (signs, symbols, architectural forms) at various times in the first millennium; the avoidance or removal of images, and motivations for and the effect of the art which it produces (Byzantine "iconoclasm"; Islamic avoidance; Protestantism; the French Revolution; the Jesse Helms syndrome). Extra assignments and class meetings. (Also offered as lower-level.)

Sections

04273	FAH 012201	F+TR	Hoffman, Eva R	1.0	C-listed With Rel 122
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**FAH 0124
EARLY MEDIEVAL ART**

(Cross-listed as REL 124) Production, function and reception of art in the early Middle Ages, especially in Western Europe from c. 300-1100 CE. Germanic, Frankish, Anglo-Saxon, Carolingian, Scandinavian and Norman jewelry, sculpture, textiles, architecture and manuscripts. Central themes include tradition and innovation; cultural and artistic hybridity; visualizing self and other.

Sections

04277	FAH 012401	D+	Overbey, Karen	1.0	Undergrad Pre-req: Fah1 Or Permiss; C-list Rel 124
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**FAH 0125
MIEVEAL ARCHITECTURE**

(Cross-listed as REL 125.) Social histories of medieval buildings from c.300 - c. 1400 CE., with particular attention to space, audience and experience. Course themes include: architecture and remembrance in the early Christian period; liturgy and ritual; gendered spaces in medieval monasteries; architects, masons and engineering; castles and the ideology of conquest; late medieval civic architecture; timber/stone construction; symbolism in the Gothic cathedral; and cross-cultural forms. Also offered as lower-level.

Prerequisites: Consent

Sections

04279	FAH 012501	H+	Overbey, Karen	1.0	Undergrad Pre-req: Fah 1 Or Fah 8; C-list Rel 125
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**FAH 0128
MIEVEAL ART MEDITERRANE**

(Cross-listed as REL 128.) Integrated study of the shared art and culture of the Mediterranean from late antiquity through medieval times (3rd – 13th centuries CE). Architecture, painting, mosaic and luxury objects will be considered with a focus on continuities and dynamic cultural intersections across religious and political boundaries in European, Islamic, and Byzantine realms. Topics include the early church, synagogue, and mosque; figural and non-figural imagery in Pagan, Jewish, Christian, and Islamic contexts; relationships between secular and sacred and between majority and minority cultures. Research papers are required. (Also offered as lower-level.)

Sections

04187	FAH 012801	J+	Hoffman, Eva R	1.0	Upper Lvl Of Dual Lvl Course 28/128; C-list Rel 128
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**FAH 0134
RENAISSANCE VENICE**

Painting, sculpture, and architecture in the "most serene republic" of Venice, 1400-1600. Elite patrons, confraternal piety, wealth from the Levant, and a taste for pleasure provide some framing contexts for Venetian subject matter ranging from altarpieces to sensuous female nudes. Artists to be considered include Bellini, Giorgione, Titian, Sansovino, Palladio, and Tintoretto. Extra reading assignments and term paper. (Also offered as lower-level.)

Sections

04193	FAH 013401	F+TR	Baskins, Criste	1.0	Upper Level Of Dual Level
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Art History

04193 FAH 013401 Baskins, Criste 1.0 Course 34/134

01850 FAH 018204 Cavalier, Chris 1.0 Permission Of Instructor
01851 FAH 018205 Overbey, Karen 1.0

**FAH 0152
PICASSO TO POLLOCK**

The Cubist revolution of Picasso; German Expressionism from Kirchner to Beckmann; the Russian avant-garde; the languages of abstraction throughout Europe, from Kandinsky in Russia, to Mondrian in Holland; the reaction to World War I in the Dada and Surrealist movement; the Bauhaus and its influence; the idea of the avant-garde. The shift from Europe to America after World War II and the development of the Abstract Expressionism of Pollack and others. (Also offered as lower-level).

Prerequisites: Permission of Instructor.

Sections

04197 FAH 015201 L+ Esielonis, Kary 1.0 Upper Level Of Dual Level Course 52/152

**FAH 0161
AMERICAN ART 1776-1900**

Survey of painting, sculpture, and graphic art from the seventeenth century to World War I. The wealth of original material in the Boston area is especially valuable to the course. Frequent field trips are scheduled and lectures held at the Museum of Fine Arts. Extra assignments and class meetings. (Also offered as lower-level.)

Sections

04555 FAH 016101 A+ Rosenberg, Eric 1.0 Upper Level Of Dual Level Course 61/161

**FAH 0170
CONTEMP ARTS OF AFRICA**

Examination of African art since the end of colonialism. Consideration of sculpture, painting, performance, film, and architecture. Emphasis on the changing meanings of art within different African contexts. Exploration of the tension between the tribal and the (post)modern with respect to the advent of national cultures and outside factors. Extra assignments and class meetings. (Also offered as lower-level.)

Sections

04200 FAH 017001 G+ Probst, Peter 1.0 Upper Lvl Of Dual Lvl Crs 70/170 Meets Wrld Civ Req

**FAH 0181
20 CENTURY MEXICAN ART**

The dominant art forms of twentieth-century Mexico including post-revolutionary muralism and socially-concerned representational art; movements, artists, and visual genre outside of the mural school including abstraction, surrealism, photography, print culture, and film. The influence of politics, class, race, and gender on the production of art in Mexico. Art by Mexican-American artists in the U.S., and the effects of globalization and the art market on contemporary Mexican art. Extra assignments and class meetings. (Also offered as lower-level.)

Prerequisites: Permission of instructor.

Sections

04266 FAH 018101 I+ Zavala, Adriana 1.0 Upper Lvl Of Dual Lvl Crs 81/181; Meets Wrld Civ Req

**FAH 0182
INDEPENDENT STUDIES**

Guided individual study of an approved topic.

Please see departmental website for specific details.

Sections

01847 FAH 018201 Baskins, Criste 1.0 Permission Of Instructor
01848 FAH 018202 Mctighe, Monica 1.0 Permission Of Instructor
01849 FAH 018203 Kaminishi, Ikum 1.0 Permission Of Instructor

**FAH 0186
LATINO ART & VIS CULT**

Representations of Latinos and by Latinos across a broad range of media, with emphasis on contemporary art and film/television, but including literature and music. Popularity and increase of Latino culture in the U.S. in the context of ongoing debates about immigration, national security, and shifting demographics. Key topics include the cultural politics of representation, the relationship of contemporary Latino artists to the mainstream art world, debates about visual art as a vehicle for the expression of cultural identity, the role of gender, sexuality, class, and ethnicity in creative expression, the relationship between Latino culture and the mainstream, the diversity of the Latino community, how self-representation informs political dissent, and an examination of Latinidad as an affirmative cultural construction for people of Latin American descent in the U.S. 100-level requirements include a longer research paper and may include additional readings, response papers, oral presentations, and group discussion meetings. (Also offered as lower-level.)

Prerequisites: Graduate student or junior or senior Art History major or permission of instructor.

Sections

04271 FAH 018601 H+TR Zavala, Adriana 1.0 C-list With Amer 194-03; Meets Wrld Civ Req

**FAH 0192
SPECIAL TOPICS**

Special Topics.

Please see departmental website for specific details.

Sections

THE AMERICAN SUBURB

04282 FAH 019201 L+ Staff 1.0 Upper Level Of Dual Level Course 92/192

**FAH 0199
SENIOR HONORS THESIS**

Senior Honors Thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01873 FAH 019901 ARR Hoffman, Eva R 1.0 Permission Of Instructor
01874 FAH 019902 ARR Baskins, Criste 1.0 Permission Of Instructor
01875 FAH 019903 ARR Probst, Peter 1.0 Permission Of Instructor
01876 FAH 019904 ARR Kaminishi, Ikum 1.0 Permission Of Instructor
01877 FAH 019905 ARR Mctighe, Monica 1.0 Permission Of Instructor
01878 FAH 019906 ARR Rosenberg, Eric 1.0 Permission Of Instructor
01879 FAH 019907 ARR Abramson, Danie 1.0 Permission Of Instructor
01880 FAH 019908 Mcclellan, Andr 1.0

**FAH 0210
SEM: ARMENIAN/BYZANT ART**

Please see department website for further details.

Sections

ARMENIAN ARCHITECTURE

04283 FAH 021001 5 Maranci, Christ 1.0 For Art History Ma Students

ARMENIAN ARCHITECTURE

04284 FAH 021002 5 Maranci, Christ 1.0 For Art His & Arch Stu. Junior And Senior Majors

ARMENIAN ARCHITECTURE

04285 FAH 021003 5 Maranci, Christ 0.0 For Mfa Graduate

Art History

ARMENIAN ARCHITECTURE

04285 FAH 021003 Maranci, Christ 0.0

Students

FAH 0230

SEM IN RENAISSANCE ART

Please see department website for further details.

Sections

PICT LEVANT: MOD ITALY

04286 FAH 023001 4 Baskins, Criste 1.0

For Art History
Ma Students

PICT LEVANT: MOD ITALY

04287 FAH 023002 4 Baskins, Criste 1.0

For Art History
& Arch Stud
Junior & Senior
Majors

PICT LEVANT: MOD ITALY

04288 FAH 023003 4 Baskins, Criste 1.0

For Mfa
Students

FAH 0255

SEMINAR:CONTEMPORARY ART

Seminar.

Please see departmental website for specific details.

Sections

POLITICS & PUBLIC SPACE

04556 FAH 025501 12 Mctighe, Monica 1.0

For Art History
Master
Students

POLITICS & PUBLIC SPACE

01888 FAH 025502 12 Mctighe, Monica 1.0

For Art History
& Arch Stu
Junior & Senior
Majors

POLITICS & PUBLIC SPACE

01889 FAH 025503 12 Mctighe, Monica 1.0

For Mfa Grad
Students

FAH 0260

SEMINAR:MOD AMERICAN/US

Seminar.

Please see departmental website for specific details.

Sections

PHOTOGRAPHY: 1929 - 1956

04289 FAH 026001 7 Rosenberg, Eric 1.0

For Art History
Ma Students

PHOTOGRAPHY: 1929 - 1956

04290 FAH 026002 7 Rosenberg, Eric 1.0

For Art History
& Arch Stu
Junior & Senior
Majors

PHOTOGRAPHY: 1929 - 1956

04291 FAH 026003 7 Rosenberg, Eric 1.0

For Mfa
Students

FAH 0270

SEMINAR IN AFR ART

Please see departmental website for details.

Sections

MAKING AFRICAN ART HISTO

04292 FAH 027001 6 Probst, Peter 1.0

For Art History
Ma Students

MAKING AFRICAN ART HISTO

04293 FAH 027002 6 Probst, Peter 1.0

For Art History
& Arch Stud
Junior & Senior
Majors

MAKING AFRICAN ART HISTO

04294 FAH 027003 6 Probst, Peter 1.0

For Mfa
Graduate
Students

FAH 0284

COLLECTIONS MANAGEMENT

Every museum has a curator, registrar, or collections manager whose primary role is to oversee the use, management, and care of its collections. While types of collections may vary, these functions are critical to the success of all collecting institutions. This course examines the responsibilities of the collections manager or registrar in documenting, researching, storing, and exhibiting objects. Students are exposed to various collection policies and registration methods, the acquisition process, loan procedures, and the numerous legal and ethical issues that surround accessioning and de-accessioning artifacts. Security, insurance, access to and use of collections are also discussed. The class will make at least one site visit to view collection storage at a local museum. Summer.

Prerequisites: FAH 285.

Sections

01897	FAH 028401	ARR	Desy, Margherit	1.0	Hi Demand Reg Grad Office,museum St Cer Only,mus St Cr
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FAH 0289

MUSEUM STUDIES INTERNSHP

(Cross-listed as ED 284 and HIST 292.) Available to students in the Museum Studies Program only. A one-semester, intensive internship with specific projects and responsibilities to be arranged by the student, the museum resource person, and the Tufts Museum Studies adviser, culminating in a written report.

Sections

01898	FAH 028901	ARR	Robinson, Cynth	1.0	To Reg Contact Intnrshp Sup 617-627-3022
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FAH 0294

QUALIFYING PAPER #2

Guided research on a topic that has been approved for a master's qualifying paper.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01899	FAH 029401		Baskins, Criste	1.0	Permission Of Instructor
01900	FAH 029402		Mcclellan, Andr	1.0	Permission Of Instructor
01901	FAH 029403		Wechsler, Judit	1.0	Permission Of Instructor
01902	FAH 029404		Kaminishi, Ikum	1.0	Permission Of Instructor
01903	FAH 029405		Hoffman, Eva R	1.0	Permission Of Instructor
01904	FAH 029406		Mctighe, Monica	1.0	Permission Of Instructor
01905	FAH 029407	ARR	Maranci, Christ	1.0	Permission Of Instructor
01906	FAH 029408		Rosenberg, Eric	1.0	Permission Of Instructor
01907	FAH 029409		Probst, Peter	1.0	Permission Of Instructor
01908	FAH 029410		Abramson, Danie	1.0	Permission Of Instructor
01909	FAH 029411		Zavala, Adriana	1.0	Permission Of Instructor

FAH 0296

THESIS

Guided research on a topic that has been approved for a master's thesis. Two courses.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01910	FAH 029601		Rosenberg, Eric	1.0	Permission Of Instructor
01911	FAH 029602		Mcclellan, Andr	1.0	Permission Of Instructor

Art History

01912	FAH 029603	Zavala, Adriana	1.0	Permission Of Instructor
01913	FAH 029604	Baskins, Criste	1.0	Permission Of Instructor
01914	FAH 029605	Hoffman, Eva R	1.0	Permission Of Instructor
01915	FAH 029606	Wechsler, Judit	1.0	Permission Of Instructor
01916	FAH 029607	Probst, Peter	1.0	Permission Of Instructor
01917	FAH 029609	Mctighe, Monica	1.0	Permission Of Instructor
01918	FAH 029610	ARR Kaminishi, Ikum	1.0	

FAH 0401 **MASTERS DEGREE CONT.**

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01944	FAH 0401PT		0.0	Permission Of Instructor
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FAH 0402 **MASTERS DEGREE CONT.**

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01945	FAH 0402FT		0.0	Permission Of Instructor
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FAH 0404 **COMB DEGREE-BMFA**

Combination Degree-BMFA.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01946	FAH 040401		0.0	Permission Of Instructor
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Astronomy

AST 0006

BIG BANG TO HUMANKIND

(Cross-listed as CHEM 6 and BIO 6). An exploration of the origins of the Universe, the formation of Earth and its structure, the chemistry of life, the development of complex organisms, and the development of modern humans including evidence for the various ideas presented, the scientific method used by scientists, and how the community of scientists evaluate the evidence. This course does not fulfill pre-med requirements for a lab-based chemistry course.

Sections

00182 AST 000601 J+ Walt, David R 1.0 C-1st Chem/bio
0006-01

AST 0010

WANDERERS SPACE-EXP&DISC

Space-age exploration of the planets and their moons; human landings on the moon; robot landings on Venus and Mars; liquid hydrogen and helium rain; planetary rings; asteroids and comets; thermonuclear reactions in the Sun; solar oscillations; the million-degree solar corona; the solar wind; solar effects; the greenhouse effect; ozone depletion and global warming.

Sections

04307 AST 001001 G+ Lang, Kenneth R 1.0

AST 0016

SPECIAL TOPICS

Broad applications of astronomy, suitable for undergraduates of variable and, possibly minimal, background in astronomy. Please see departmental website for specific details.

Sections

GALAC/EXTRAGALAC APHYS

04663 AST 001601 H+ Sajina, Anna 1.0 Phy 13 Or
Consent Of
Instructor

AST 0112

NEW FRONTIERS ASTROPHY

Seminar on selected areas of current research, such as cosmology and studies of active stars, radio studies of interstellar molecules, radio galaxies and quasars, and recent discoveries made with orbiting observatories. Students will be expected to carry out a substantial research project.

Prerequisites: AST 0111 or permission of instructor.

Sections

04315 AST 011201 ARR Willson, Robert 1.0 Phy 11/12 And
Ast 21/22, Or
Permission Of
Instructor

Bioengineering

BIOE0292

BIOENGINEER SEMINAR II

A weekly journal club seminar series where the current technical literature is reviewed and discussed. Student presentations of ongoing research activities.

(1/2 Course Credit)

Prerequisites: Permission of Instructor.

Sections

00285	BIOE029201	ARR	Panilaitis, Bru	0.5	W 0430pm-0530p m
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Biology

BIO 0005

NEUROANATOMY

(Cross-listed as OTS 103.) The structure and basic function of the nervous system: both central and peripheral nerves analyzed as to functional components, course, and action. Basic tracts of the central nervous system outlined and traced. Laboratory sessions weekly.

Sections

00189 BIO 000501 ARR Pessina, Monica 1.0 Preq: Ots 102 & Bio 4, C-1st Ots 103-01

BIO 0006

BIG BANG TO HUMANKIND

(Cross-listed as CHEM 6 and AST 6). An exploration of the origins of the Universe, the formation of Earth and its structure, the chemistry of life, the development of complex organisms, and the development of modern humans including evidence for the various ideas presented, the scientific method used by scientists, and how the community of scientists evaluate the evidence. This course does not fulfill pre-med requirements for a lab-based chemistry course.

Sections

00190 BIO 000601 J+ Walt, David R 1.0 Meets Tr 0300pm-0415pm, C-1st Chem/ast 6-01

BIO 0010

PLANTS & HUMANITY

(Cross-listed as ENV 10.) Principles of botany accenting economic aspects and multicultural implications of plants, their medicinal products, crop potential, and biodiversity. Emphasis placed on global aspects of this dynamic science, with selected topics on acid rain, deforestation, biotechnology, and other applications. Also covered are medicinal, poisonous, and psychoactive species, as well as nutritional sources from seaweeds and mushrooms to mangos and durians. Three lectures.

Sections

00191 BIO 001001 C Ellmore, George 1.0 C-1st Env 10-01

BIO 0012

HUMAN REPRODUCTION & DEV

Introduction to the rapidly expanding field of developmental biology related to the individual and society. Topics include biology of mate choice, fertilization, the timing of sensitive stages of development, birth control, and sexually transmitted diseases. The gene concept, how genes regulate development, developmental effects of mutations, inheritance of genetic diseases, and genetic counseling, as well as environmental factors causing birth defects and long-term effects will be considered. Assisted reproductive technologies and stem cell technologies discussed.

Sections

00192 BIO 001201 I+ Ernst, Susan G 1.0

BIO 0014

ORGANISMS&POPULAT W/LAB

Forms a logical sequel to BIO 13. Selected topics in animal and plant physiology, development, genetics, and population biology, with emphasis on evolutionary mechanisms. Three lectures and one laboratory each week.

Prerequisites: BIO 13 strongly recommended.

Sections

00206 BIO 001401 D Chew, Frances S 1.0 Also Reg For Mandatory Lab 14-1a Thru LI
00193 BIO 0014LA 5+ Staff 0.0
00194 BIO 0014LB 5+ Staff 0.0
00195 BIO 0014LC ARR Staff 0.0 Tue 1:30-4:30 P.m.
00196 BIO 0014LD ARR Staff 0.0 Tue 1:30-4:30 P.m.
00197 BIO 0014LE 7+ Staff 0.0
00198 BIO 0014LF 7+ Staff 0.0
00199 BIO 0014LG 8+ Staff 0.0
00200 BIO 0014LH 10+ Staff 0.0

00201 BIO 0014LI 11+ Staff 0.0
00202 BIO 0014LJ 11+ Staff 0.0
00203 BIO 0014LK 12+ Staff 0.0
00204 BIO 0014LL 12+ Staff 0.0
00205 BIO 0014R ARR Staff 0.0

Optional
Recitation Mon
4:30-5:30 Pm

BIO 0046

CELL BIOLOGY

Basic concepts of cellular organization, function, regulation. Emphasis on molecular/biochemical approach to fundamentals of bioenergetics; plasma membrane functions such as transport, secretion, and signal transduction; organelle function and biogenesis; cell growth and division. Three lectures.

Prerequisites: BIO 13 and 14 or equivalent.

Sections

00208 BIO 004601 E+MW Koegel, Susan 1.0 Bio 13 Or Equiv Required

BIO 0050

EXPER IN MOLECULAR BIO

Similar to BIO 49, but investigating a series of laboratory problems using modern techniques of biotechnology. Gene cloning, recombinant protein expression, protein biochemistry, and immunochemistry are emphasized for teaching state-of-the-art laboratory skills and for reinforcing basic concepts of modern molecular biology. One laboratory session per week plus one discussion period.

Prerequisites: Sophomore standing and BIO 13 or equivalent. Open only to majors in biology, biochemistry, and chemical engineering.

Sections

00209 BIO 0050A ARR Fuhrman, Juliet 1.0 Bio13,soph Stand; Bio, Bioch, Biot Only
00210 BIO 0050B ARR Fuhrman, Juliet 1.0 Bio13,soph Stand; Bio, Bioch, Biot Only

BIO 0052

EXP IN CELL BIOLOGY

Investigation of several laboratory problems using standard techniques of cell biology. Emphasis on subcellular fractionation, microscopy, cell culture, and chromatography. One laboratory session per week plus one discussion period.

Prerequisites: Sophomore standing and BIO 13 or equivalent.

Sections

00211 BIO 005201 ARR Koegel, Susan 1.0 Req Bio 13, Soph Standing

BIO 0094

INTRO TO RESEARCH

At least ten hours per week of guided laboratory research, generally including one hour of consultation or seminar with research supervisor and a paper. Details of individual project to be worked out with the supervisor. Gives students an opportunity to participate in biological research on the Tufts Medford/Somerville and Boston campuses. Does not satisfy laboratory or course requirement for the major in biology. May be counted as credit toward degree only. Pass/fail grading.

Prerequisites: Three courses in biology, or equivalent, and prior permission of the course coordinator.

Sections

00212 BIO 009401 ARR Koegel, Susan 1.0 3 Bio Crs, consent Of Instructor, pass-fail Only

Biology

BIO 0105

MOLECULAR BIOLOGY

Gene structure and function in prokaryotes and eukaryotes, fundamentals of recombinant DNA technology. Molecular mechanisms of DNA replication and repair, recombination, transcription, and protein synthesis are emphasized. Advanced topics including regulation of gene expression during development, transposition, and regulation of chromatin structure are based on current literature.

Prerequisites: BIO 41.

Sections

00215	BIO 010501	D+	Mcvey, Mitch	1.0	Bio 41 Or Equiv Required
00214	BIO 0105RCT	DM	Mcvey, Mitch	1.0	Optional Recitation

BIO 0106

MICROBIOLOGY W/LAB

A survey to provide a general understanding of bacteria and viruses. Bacterial structure, growth, ecology, pathogenic mechanisms, and viral life cycles. The laboratory will familiarize students with microbiological methods and various groups of microorganisms. Three lectures, one laboratory per week. One and one-half credits.

Prerequisites: One intermediate biology course or equivalent, and CHEM 2.

Sections

00217	BIO 010601	A+	Warner, Douglas	1.5	3 Bio Crs & Chem 2 Required
00216	BIO 0106LA	11+	Staff	0.0	

BIO 0118

PLANT PHYSIOLOGY

Interaction of living plant components performing biological functions including water transport, mineral uptake, movements, and signaling between plant parts in response to environmental cues.

Prerequisites: BIO 13 and 14, or equivalent. Introductory chemistry recommended.

Sections

04258	BIO 011801	F+TR	Ellmore, George	1.0	
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BIO 0130

ANIMAL BEHAVIOR

(Cross-listed as ENV 130.) An examination of ethological theory: the development of behavior, orientation, migration, communication, and social behavior. Particular emphasis will be placed on the functioning of animal societies.

Prerequisites: BIO 13 and 14, or equivalent.

Sections

00220	BIO 013001	B	Starks, Philip	1.0	Bio 13 Or 14/equiv Req,c-1st Env 130
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BIO 0131

PRIN MEDICAL IMAGING

(Cross-listed as BME 131 and EE 131.) This interdisciplinary course presents the principles of medical imaging techniques such as diagnostic ultrasound, radiography, X-ray, computed tomography (CT), and magnetic resonance imaging (MRI). For each imaging modality, topics include the physical principles, key aspects of instrumentation design, mathematical methods, and the anatomical/physiological information content of the images. Representative medical images will be discussed and interpreted. This course cannot be taken for basic science requirement for engineering students.

Prerequisites: MATH 11, PHY 2 or 12, or permission of instructor.

Sections

00221	BIO 013101	F+TR	Fantini, Sergio	1.0	C-1st Ee & Bme 131,permission Of Instructor
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BIO 0134

NEUROBIOLOGY

Biology of nervous systems. From the biophysical basis of neuronal function, through synaptic interactions and signal processing in neural circuits, to behavior, learning, and memory. Examples from both vertebrates and invertebrates.

Prerequisites: BIO 13 and 14, plus one Group A course in biology or PSY 103.

Sections

00222	BIO 013401	H+	Trimmer, Barry	1.0	Bio 13, 14 Or Equiv
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BIO 0144

PRIN CONSERVATION BIO

(Cross-listed as ENV 144.) Learning and application of principles from population ecology, population genetics, and community ecology to the conservation of species and ecosystems. Focus on rare and endangered species, as well as threatened ecosystems. Includes applications from animal behavior, captive breeding, and wildlife management. Readings from current texts and primary literature.

Prerequisites: BIO 14 or equivalent.

Sections

04259	BIO 0144001	G+	Reed, Michael	1.0	Bio 14 Or Equiv
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BIO 0152

BIOCHEM & CELL METAB

An in-depth examination of the structure and function of biomolecules: chemical and physical properties of proteins, carbohydrates, and lipids; enzyme kinetics and mechanisms; metabolism of carbohydrates, lipids, and amino acids and the metabolic relationships of organ systems. Three lectures.

Prerequisites: BIO 13 and CHEM 50 or 51.

Sections

00223	BIO 015201	D	Gaudette, Miche	1.0	Bio 13, Chem 50 Or 51 Required
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BIO 0164

MARINE BIOLOGY

(Cross-listed as ENV 164.) An intermediate-level introduction to the biology of marine organisms. Following a detailed survey of major marine animal and plant groups, the course will consider aspects of biology that are particularly relevant to marine organisms: adaptation to salinity and temperature fluctuation, bioluminescence and its ecological significance, locomotory mechanics, food-chain dynamics, dispersal and substrate selection, and control of species diversity.

Prerequisites: BIO 13 and 14, or equivalent.

Sections

00224	BIO 016401	C	Pechenik, Jan	1.0	Bio 13&14/equiv Req,c-1st Env 164
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BIO 0172

BIOCHEMISTRY II

(Cross-listed as CHEM 172.) Continuation of Biology 171. One course.

Prerequisites: BIO 171.

Sections

00225	BIO 017201	B+TR	Staff	1.0	C-1st Chem 172
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BIO 0177

SEM:IN INFLAMMATION

Study of processes involved in mammalian inflammatory reactions. Reading and discussion of the current literature will be emphasized. Selected topics include leukocyte chemotaxis and phagocytosis, generation of inflammatory agents, allergic reactions, autoimmune diseases, and basic immunologic processes.

Prerequisites: Permission of instructor.

Sections

00226	BIO 0177WW	J+	Cochrane, David	1.0	Consent Of Instructor
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Biology

BIO 0178

SEMINAR IN IMMUNOLOGY

Advanced topics in immunology. Readings and discussion of the current literature emphasized. Topics include antigen presentation, T-cell activation, cytokine release and effects, self- and non-self recognition, and immunopathology of HIV.

Prerequisites: BIO 104 and permission of instructor.

Sections

00227	BIO 017801	8	Bernheim, Harry	1.0	Bio 104 Or Equiv Required
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BIO 0190

DNA:STRUCTURE-FUNCTION

DNA is the indispensable molecule of life. Fundamentals of DNA structure and functioning are therefore central to understanding molecular genetics and genomics. In this course, DNA structure and function are examined through lectures and discussions of the original scholarly literature. Originally, DNA was believed to be a uniform right-handed double helix with limited structural flexibility. It has now become clear, however, that its structure is highly versatile, and this versatility is vital for major genetic processes. Topics include DNA secondary and tertiary structures, DNA topology and topoisomerases, mechanisms of protein-DNA recognition and the structure of the chromatin; how the principles of DNA organization are employed in key genetic transactions, including DNA replication, transcription, repair, and recombination.

Prerequisites: BIO 41 and junior standing or consent.

Sections

04604	BIO 019001	ARR	Staff	1.0	Req Bio 41& Jr Std
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BIO 0194

INDEPENDENT RESEARCH

Intensive laboratory or field investigation, including independent design of experiments, a written thesis, and an oral defense. Application is made during the student's sixth semester. Normally, the applicant should have received at least three grades of A toward satisfying the concentration requirements for the biology major and should have a cumulative GPA of at least 3.30.

Prerequisites: BIO 193 or equivalent, and prior permission of the course coordinator.

Sections

00244	BIO 019401	ARR	Koegel, Susan	1.0	Permission Of Instructor
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BIO 0196

SELECTED TOPICS

Exploration of special topics in biology through seminars or guided individual study. Prerequisite: consent. Credit as arranged (usually one-half or one course).

Prerequisites: Permission of instructor.

Sections

00247	BIO 019601	ARR	Pechenik, Jan	1.0	Apply At Bio Dept Office
00248	BIO 019603	ARR	Starks, Philip	1.0	Permission Of Instructor
00249	BIO 019604	ARR	Orians, Colin	1.0	Permission Of Instructor
00250	BIO 019605	ARR	Cochrane, David	1.0	Permission Of Instructor

BIO 0199

SENIOR HONORS THESIS

Intensive laboratory or field investigation, including independent design of experiments, a written thesis, and an oral defense. Application is made during the student's sixth semester. Normally, the applicant should have received at least three grades of A toward satisfying the concentration requirements for the biology major and should have a cumulative GPA of at least 3.30.

Sections

00252	BIO 019901	ARR	Koegel, Susan	1.0	Permission Of Instructor
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BIO 0244

GRAD SEM EVOL ECOLOGY

An examination of current topics in evolutionary ecology, including plant-herbivore coevolution, sexual selection, phenotypic plasticity, life-history strategies, and conservation biology. Reading and discussion of primary literature will include focus on experimental methodologies and statistical methods.

Prerequisites: BIO 142 or 143, or equivalent, and permission of instructor.

Sections

04260	BIO 0244001	ARR	Dopman, Erik	1.0	Permission Of Instructor
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BIO 0254

GRAD STU RSCH ROTATION

A research rotation is an opportunity to explore a new area of Biology, to learn new techniques, and to become acquainted with some of the research ongoing in our department as students conduct intensive laboratory or field investigation, including independent design of experiments ending with a final oral report. Students will normally present their findings the Friday before the start of spring semester. Rotation Duration: Oral reports will be given to a group consisting of other students who have just finished a rotation, the sponsoring research mentors, members' of the students' committees, graduate students, and other interested persons. Dr. McLaughlin.

1 graded credit.

Prerequisites: Consent.

Sections

00253	BIO 025401	ARR	Mclaughlin, Kel	1.0	Preq: Consent Of Instructor
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BIO 0291

GRADUATE SEMINAR

Presentation of individual reports on basic topics to a seminar group for discussion and criticism. Credit as arranged.

Please see departmental website for specific details.

Sections

00254	BIO 029101	ARR	Freudenreich, C	0.0	Thur 8:30-10:20am,s/ u Only
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BIO 0292

GRADUATE SEMINAR

Presentation of individual reports on basic topics to a seminar group for discussion and criticism. Credit as arranged.

Please see departmental website for specific details.

Sections

00255	BIO 029201	ARR	Starks, Philip	1.0	Grad Sem,read Grp.perm Of Instructor Required,s/u
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BIO 0294

SPECIAL TOPICS

Guided individual study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00257	BIO 029402	ARR	Starks, Philip	0.0-3.0	Permission Of Instructor
00258	BIO 029403	ARR	Bernheim, Harry	0.0-3.0	Permission Of Instructor
00259	BIO 029404	ARR	Dopman, Erik	0.0-3.0	Permission Of Instructor
00260	BIO 029405		Reed, Michael	0.0-3.0	Permission Of Instructor
00261	BIO 029406	ARR	Orians, Colin	0.0-3.0	Permission Of Instructor
00262	BIO 029407	ARR	Romero, L. Mich	0.0-3.0	Permission Of Instructor

Biology

00263	BIO 029408	ARR	Mclaughlin, Kel	0.0-3.0	Permission Of Instructor
00265	BIO 029410	ARR	Elmore, George	0.0-3.0	Permission Of Instructor

BIO 0296 THESIS

Guided research on a topic that has been approved as a suitable subject for a master's thesis. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00266	BIO 029601	ARR	Mclaughlin, Kel	0.0-3.0	Permission Of Instructor
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BIO 0298 GRADUATE RESEARCH

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00267	BIO 029801	ARR	Mclaughlin, Kel	0.0-3.0	Permission Of Instructor
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BIO 0401 MASTERS DEGREE CONT

Part time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00279	BIO 0401PT	ARR	Staff	0.0	Permission Of Instructor
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BIO 0402 MASTERS DEGREE CONT

Full time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00280	BIO 0402FT	ARR	Staff	0.0	Permission Of Instructor
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BIO 0501 DOCTORAL DEGREE CONT

Part time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00283	BIO 0501PT	ARR	Staff	0.0	Permission Of Instructor
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BIO 0502 DOCTORAL DEGREE CONT

Full time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00284	BIO 0502FT	ARR	Staff	0.0	Permission Of Instructor
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Biomedical Engineering

BME 0004

BME SOPH DESIGN/RES II

Team design and research in basic optics, and biomedical optics. Geometrical and physical optics, fiber optics, light sources, optical detectors, and principles of spectroscopy. How to present design features and research results in the form of a technical/scientific poster. 0.5 credit.

Prerequisites: BME 3.

Sections

00286 BME 000401 H+R Hunter, Martin 0.5

BME 0006

BME JUNIOR DESIGN/RES II

Technical and scientific literature databases, professional preparation and delivery of technical/scientific presentations, and preparation of technical proposals based on proper technical writing. 0.5 credit.

Prerequisites: BME 5.

Sections

00287 BME 000601 H+T Georgakoudi, Ir 0.5

BME 0008

BME SENIOR DESIGN/RES II

Continuation of the design/research activities planned, initiated, and evaluated in BME 7. Students will present progress in their design/research projects and will discuss the possibility of presenting their results at national scientific conferences, and/or publishing them in scientific journals. The final report will be in the form of a written thesis.

Prerequisites: BME 7.

Sections

00288 BME 000801 F+F Omenetto, Fiore 1.0

BME 0050

INTRO BIOMED ENGINEERING

(Cross-listed as EE 50 and ES 50.) An introduction to the interdisciplinary nature of biomedical engineering. The biological, chemical, electrical, and mechanical principles involved in the design and operation of medical devices. Biopotentials, electrodes, transducers, biocompatibility of materials, and patient safety.

Prerequisites: PHY 2 or PHY 12, or permission of instructor.

Sections

00289 BME 005001 K+ Omenetto, Fiore 1.0 C-1st Ee 50

BME 0051

INTRO TO BIOPHOTONICS

Basic concepts in electromagnetism and light matter interactions, including optical properties, absorption, near-infrared, light scattering and fluorescence spectroscopy, microscopy, optical coherence tomography and photodynamic therapy and their relevance to human disease diagnostic and therapeutic applications.

Prerequisites: PHY 12 or permission of instructor.

Sections

04172 BME 005101 D+ Georgakoudi, Ir 0.0-1.0 Lower Level Course

BME 0062

MOLECULAR BIOTECHNOLOGY

(Cross-listed as CHBE 62 and BIO 62.) Overview of key aspects of molecular biology and engineering aspects of biotechnology. Lecture topics include molecular biology, recombinant DNA techniques, immunology, cell biology, protein purification, fermentation, cell culture, combinatorial methods, bioethics, and bioinformatics. Includes a semester-long technical project. (May also be taken at 100 level.)

Prerequisites: CHEM 1, BIO 13, or permission of instructor.

Sections

00290 BME 006201 10+ Kaplan, David 1.0 C-1st Chbe 62

BME 0090

HONORS THESIS

Supervised research on a topic that has been approved as a suitable subject for an honors thesis. The work is performed over the fall and spring semesters of the senior year. Students will receive a Y grade at the end of the fall semester and the final grade at the end of the spring semester for a total of two credits.

Please see departmental website for specific details.

Prerequisites: Senior standing or permission of instructor.

Sections

00291 BME 009001 ARR Omenetto, Fiore 1.0 Permission Of Instructor
00292 BME 009002 ARR Kaplan, David 1.0

BME 0094

SPECIAL TOPICS

Guided study of an approved topic in biomedical engineering. Credit as arranged.

Prerequisites: Permission of instructor.

Sections

00293 BME 009401 ARR Kaplan, David 1.0 This Is A Research Project For Credit
00294 BME 009404 ARR Georgakoudi, Ir 1.0

BME 0100

DESIGN OF MED INSTRUMENT

(Cross-listed as EE 100.) An introduction to the design principles of microprocessor-based medical instrumentation and simple biomedical signal analysis. Topics include the origin of bioelectric potentials, characteristics of various biological signals, transducers, A/D converters, analog and digital filters, instrumentation amplifiers, patient isolation, battery powered equipment, and microprocessor design. Each student will be required to complete a paper design of a biomedical instrument.

Prerequisites: ES 3.

Sections

00295 BME 010001 J+ Cronin-golomb, 1.0 C-1st Ee 100

BME 0120

PROJECT STUDY/HUMAN SYS

(Cross-listed as ENP 120 and PSY 120.) A senior-level project design (capstone course), led by faculty from engineering and psychology as well as outside lecturers. Students participate in team fashion in human factors design problems set by industry sponsors. Professional-level work is required, including report preparation and presentations. Timely lectures supplement the projects.

Prerequisites: BME/ENP 161, 162, PSY 31, 32, 130.

Sections

00296 BME 012001 I+ Hannon, Daniel 1.0 C-1st Enp 120

BME 0122

QUANT PHYSIOLOGY II

(Cross-listed as EE 122 and ES 122.) Course work designed for students interested in advanced work in biomedical engineering. A quantitative approach to physiology of the renal system, the central nervous system, the gastrointestinal system and the endocrine system, through the study of vital biological signals and their measurement. Anatomy and physiology of each organ system. Current engineering efforts in instrumentation and basic science to further study the system's physiology.

Prerequisites: BME/EE/ES 50, BIO 1 or BIO 13 or ES 11, or permission of instructor.

Sections

04190 BME 012201 ARR Black, Lauren 1.0 Lab W/special Time M 1:30-2:30 And W: 1:30-4:30

Biomedical Engineering

BME 0131 PRIN MEDICAL IMAGING

(Cross-listed as EE 131 and BIO 131.) This interdisciplinary course presents the principles of medical imaging techniques such as diagnostic ultrasound, radiography, X-ray computed tomography (CT), and magnetic resonance imaging (MRI). For each imaging modality, topics include the physical principles, key aspects of instrumentation design, mathematical methods, and the anatomical/physiological information content of the images. Representative medical images will be discussed and interpreted. This course cannot be taken for basic science requirement for engineering students.

Prerequisites: MATH 11, PHY 2 or 12, or permission of instructor.

Sections

00297	BME 013101	F+TR	Fantini, Sergio	1.0	C-1st Ee & Bio 131
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BME 0161 HUMAN FACTOR PROD DESIGN

(Cross-listed as ENP 161.) Material relevant in consumer product design, biomedical engineering, architectural design, and machine design. Topics include design methodologies, user feedback techniques, performance measurements, sensory evaluation techniques, creative design, and prototyping. Extensive individual and group project design work. Emphasis on designing and creativity.

Prerequisites: EN 1, 2, ENP 61, PSY 31, 32, 53, and junior standing, or permission of instructor.

Sections

00298	BME 016101	10+	Hannon, Daniel	1.0	C-1st Enp 161
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BME 0162 MOLECULAR BIOTECHNOLOGY

(Cross-listed as BIO 162 and CHBE 162.) Overview of key aspects of molecular biology and engineering aspects of biotechnology. Lecture topics include molecular biology, recombinant DNA techniques, immunology, cell biology, protein purification, fermentation, cell culture, combinatorial methods, bioethics, and bioinformatics. Includes a semester-long technical project and oral presentation. (Also offered as lower-level.)

Prerequisites: Permission of instructor.

Sections

00299	BME 016201	10+	Kaplan, David	1.0	C-1st Chbe 162
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BME 0166 COMPUTER INTERFACE DESIG

(Cross-listed as ENP 166.) This hands-on course challenges students to design computer-based products and systems that are easy to learn and use. Lectures cover the user interface-design process, basic design principles, and design evaluation methods. In-class exercises and projects reinforce the students' understanding of the lecture material and provide practical design experience. Students use computer-based prototyping tools to model and demonstrate their design solutions. Frequent guest lectures by user-interface design specialists from industry.

Prerequisites: EN 1, 2, and junior standing, or permission of instructor.

Sections

00300	BME 016601	11+	Wiklund, Michae	1.0	C-1st Enp 166-01
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BME 0185 DRUG PRODUCT FORMULATION

(Cross-listed as CHBE 185). Drug Product Formulation.

Sections

00301	BME 018501	ARR	Abraham, Leah	1.0	C-1st Chbe 185,tue 6-8:45 P.m.
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BME 0194 SPECIAL TOPICS

Guided study of an approved topic. Credit as arranged.

Prerequisites: Permission of instructor.

Sections

BME MICRO/NANOTECHNOLOGY

04523	BME 019401	L+	Xu, Qiaobing	1.0	
00302	BME 019402	ARR	Kaplan, David	1.0	Permission Of Instructor
00303	BME 019403	ARR	Kaplan, David	1.0	C-1st Cis 203-01

BME 0251 GRAD-INTRO BIOPHOTONICS

A graduate-level version of BME 51. Additional homework problems and a term paper are required for graduate level credit.

Prerequisites: PHY 31, or BME 215, or permission of instructor. Graduate students only.

Sections

04189	BME 025101	D+	Georgakoudi, Ir	0.0-1.0	Upper Level Course
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BME 0292 GRADUATE SEMINAR

Biomedical engineering seminar series and presentation of individual reports to a seminar group for discussion. Credit as arranged.

Sections

00305	BME 029201	ARR	Kuo, Catherine	0.0-0.5	Meets W/bme192,mon 10-11am-s/u Only,0 Credit
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BME 0294 SPECIAL TOPICS

Guided individual study of an approved topic. Credit as arranged.

Prerequisites: Permission of instructor.

Sections

00306	BME 029401	ARR	Kaplan, David	1.0-3.0	Permission Of Instructor
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BME 0296 MASTER'S THESIS

Guided research on an approved topic suitable for a master's thesis. Credit as arranged.

Prerequisites: Permission of instructor.

Sections

00307	BME 029601	ARR	Black, Lauren	1.0-3.0	Permission Of Instructor
00308	BME 029602	ARR	Cronin-golomb,	1.0-3.0	Permission Of Instructor
00309	BME 029603	ARR	Fantini, Sergio	1.0-3.0	Permission Of Instructor
00310	BME 029604	ARR	Georgakoudi, Ir	1.0-3.0	Permission Of Instructor
00311	BME 029605	ARR	Kaplan, David	1.0-3.0	Permission Of Instructor
00312	BME 029606	ARR	Kuo, Catherine	1.0-3.0	Permission Of Instructor
00313	BME 029607	ARR	Omenetto, Fiore	1.0-3.0	Permission Of Instructor
00314	BME 029608	ARR	Xu, Qiaobing	1.0-3.0	Permission Of Instructor
00315	BME 029609	ARR	Peattie, Robert	1.0-3.0	Permission Of Instructor

Biomedical Engineering

BME 0298 DOCTORAL THESIS

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Prerequisites: Permission of instructor.

Sections

00316	BME 029801	ARR	Black, Lauren	1.0-3.0	Permission Of Instructor
00317	BME 029802	ARR	Cronin-golomb,	1.0-3.0	
00318	BME 029803	ARR	Fantini, Sergio	1.0-3.0	
00319	BME 029804	ARR	Georgakoudi, Ir	1.0-3.0	
00320	BME 029805	ARR	Kaplan, David	1.0-3.0	
00321	BME 029806	ARR	Kuo, Catherine	1.0-3.0	
00322	BME 029807	ARR	Omenetto, Fiore	1.0-3.0	
00323	BME 029808	ARR	Xu, Qiaobing	1.0-3.0	

BME 0502 DOCTORAL CONTINUATION-FT

Full-time.

Prerequisites: Permission of instructor.

Sections

00331	BME 0502FT	0.0	Permission Of Instructor
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BME 0299 MASTER OF ENGINEER PROJ

Execution of a major project equivalent to one course credit under the guidance of a faculty adviser. Each project must address a substantive engineering analysis or design problem. Students are required to submit a written report and make an oral presentation of their project work. Students are expected to enroll in this course in the last term of their degree program. Enrollment is limited to and required for matriculated students in the master of engineering program.

Prerequisites: Enrollment is limited to and required for matriculated students in the master of engineering program.

Sections

00324	BME 029901	ARR	Black, Lauren	0.0-1.0	Permission Of Instructor
00325	BME 029902	ARR	Cronin-golomb,	0.0-1.0	
04192	BME 029903	ARR	Fantini, Sergio	0.0-1.0	
04195	BME 029904	ARR	Georgakoudi, Ir	0.0-1.0	
04196	BME 029905	ARR	Kaplan, David	0.0-1.0	
04198	BME 029906	ARR	Kuo, Catherine	0.0-1.0	
04201	BME 029907	ARR	Omenetto, Fiore	0.0-1.0	
04202	BME 029908	ARR	Xu, Qiaobing	0.0-1.0	
04203	BME 029909	ARR	Peattie, Robert	0.0-1.0	

BME 0401 MASTER'S CONTINUATION

Part-time.

Prerequisites: Permission of instructor.

Sections

00326	BME 0401PT	0.0	Permission Of Instructor
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BME 0402 MASTER'S CONTINUATION

Full-time.

Prerequisites: Permission of instructor.

Sections

00327	BME 0402FT	0.0	Permission Of Instructor
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BME 0501 DOCTORAL CONTINUATION-PT

Part-time.

Prerequisites: Permission of instructor.

Sections

00330	BME 0501PT	0.0	Permission Of Instructor
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Center for Interdisciplinary Studies

CIS 0099
INTERNSHIP-SOCIAL CHANGE

(Cross listed with PJS 0099). Supervised fieldwork in a wide range of community, peace, justice, and social change organizations. Readings, guided group discussions, and written reports to integrate analysis and experience.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00908	CIS 0099LST	ARR	Zavala, Adriana	1.0	Permission Of Instructor
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CIS 0120
INTERDIS CAPSTONE

The project/thesis required of students for an interdisciplinary minor that does not have its own project/thesis course designation. Either one-half or one credit will be given at the discretion of the faculty members involved.

Sections

00909	CIS 012001	ARR	Staff	1.0	Permission/enro II Via One-on-one
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CIS 0135
LATINO STUDIES IN THESIS

Latino Studies in Thesis. Please see departmental website for specific details.

The project required of students electing the interdisciplinary minor option. Either one-half or one course credit will be given at the discretion of the faculty members involved

Prerequisites: Permission of instructor.

Sections

00912	CIS 013501	ARR	Zavala, Adriana	1.0	Permission Of Instructor
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CIS 0160
MIDDLE EASTERN ST THESIS

Middle Eastern Studies Thesis.

Please see departmental website for specific details. The project required of students electing the interdisciplinary minor option. Either one-half or one course credit will be given at the discretion of the faculty members involved

Prerequisites: Permission of instructor.

Sections

00913	CIS 016001	ARR	Abdul-aziz, Ran	1.0	Permission Of Instructor
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CIS 0194
CIS SENIOR HONORS THESIS

Arts, Sciences, and Engineering students who wish to write a senior thesis outside their major area of concentration may be eligible to write a CIS senior thesis. The student must satisfy the CIS board that the topic falls outside the purview of any department or interdisciplinary program and that significant course work and/or faculty directed research relevant to the thesis topic has been accomplished. The student must assemble a committee of three faculty readers with expertise in the disciplines involved, one of whom is designated as the chair of the committee and who is responsible for submitting a grade and designating the amount of credit for the thesis course work. One member of the committee must be from a department or program in which the student is majoring. The topic must be approved by the CIS board no later than the end of the first week of classes in the first semester of the student's senior year. Students who would like to be recommended for degrees with honors by departments that require a thesis should be aware that these departments require a thesis within their own department and a CIS thesis will not usually count as a substitute. However, students may apply for a CIS thesis to count as an honors thesis in the Thesis Honors Program like a thesis in any other discipline by assembling a thesis committee and filing the appropriate paperwork. If the CIS thesis is to qualify as an honors thesis, the chair of the thesis committee must be from a department or program in which

the student is majoring. For more detailed information, please visit the Web site <http://ase.tufts.edu/cis/>.

Prerequisites: Permission of instructor.

Sections

00914	CIS 019401	ARR	Carleton, Grego	1.0	Year-long, High Dmd/one-on-one Form
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CIS 0195
INTERDIS HONORS THESIS

Year-long senior honors project/thesis for students majoring in Interdisciplinary Studies.

Sections

04071	CIS 019501	ARR	Pinto, Sarah	1.0	Is Mjrs Only/apply @ Cis/ Year Long
04072	CIS 019502	ARR	Joseph, Paul	1.0	Is Mjrs Only/apply @ Cis/year Long

CIS 0202
UNIVERSITY SEMINAR

University Seminars bring together faculty, graduate students, and undergraduate students from Tufts different schools and campuses. While seminars are organized around various topics, they all will focus on issues of national or global import. Participants will analyze and synthesize the latest knowledge on the topic in their area of speciality, and teach and learn from those with other disciplinary backgrounds. Please see departmental website for specific details. <http://provost.tufts.edu/useminar>

Prerequisites: High demand.

Sections

WATER DIPLMICY III:SYNTHS

00915	CIS 020201	I+M	Islam, Shafiqul	1.0	Apply W/provost Office,snr Stand & Grad Stdnst
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Chemical and Biological Engineering

CHBE0011

CHEM ENGIN THERMODYNAMIC

Thermodynamic concepts - first and second laws, heat, work, energy, entropy, equilibrium, reversibility, equations of state - are introduced in process contexts. Phase equilibria, chemical potential, fugacity, and colligative properties are also discussed.

Prerequisites: CHBE 10, CHEM 31

Sections

00709 CHBE001101 H+HF Panzer, Matthew 1.5

CHBE0022

TRANSPORT PHENOMENA II

Principles of heat and mass transfer. Steady-state conduction and diffusion processes. Convective transport of heat and mass in laminar and turbulent flows in conduits and over various surfaces. Applications to design of heat exchangers. Natural convection. Combined heat and mass transfer applications.

Prerequisites: CHBE 10, 11; MATH 13.

Sections

00710 CHBE002201 K+ Mess, Derek 1.0

CHBE0039

APPLIED NUMERICAL METHOD

Numerical analysis methods and their implementation using commercially available software are reviewed. Scientific programming methodology. Application of commercial process simulation software to the analysis of chemical and biological process models.

Prerequisites: CHBE 0010, CHBE 0011 (concurrently)

Sections

00711 CHBE003901 J+ Staff 1.0

CHBE0052

CHEM & BIOLOGICAL EN LAB

Open-ended laboratory projects in an area of applied and industrial interest of chemical and biological engineering. Students work in groups and choose one project for the whole term. They are asked to not only analyze the results of a given experiment but also decide what are the important experiments to perform as part of their overall plan to bring their project to a successful conclusion. Oral presentations and written reports are an integral part of this laboratory course.

Sections

00712 CHBE005201 7+ Mess, Derek 1.0

CHBE0060

PRODUCT & PROCESS DESIGN

This is a capstone design course covering the principles of design and economic evaluation through the preliminary design of a commercial project related to a product or a process. Working in groups on assigned or selected portions of the overall project, students are required to make integrated use of a wide variety of fundamentals and principles gained from previous courses. Computational laboratories are supplemented by lectures. Use of design software.

Prerequisites: CHBE 11, 39, 45.

Sections

00713 CHBE006001 F+TR Bhatia, Sujata 1.0

CHBE0062

MOLECULAR BIOTECHNOLOGY

(Cross-listed as BIO 62 and BME 62.) Overview of key aspects of molecular biology and engineering aspects of biotechnology. Lecture topics include molecular biology, recombinant DNA techniques, immunology, cell biology, protein purification, fermentation, cell culture, combinatorial methods, and bioinformatics. (May be taken at 100 level.)

Prerequisites: CHEM 1, BIO 13, or permission of instructor.

Sections

00714 CHBE006201 10+ Kaplan, David 1.0 C-1st Bme 62

CHBE0094

INDEPENDENT STUDY

Guided individual study of an approved topic. Designed to develop self-teaching skills of the advanced undergraduate. Appraisal of the student's knowledge in the chosen topic based on written and/or oral examination. Prerequisite: consent of the department. Course credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00715 CHBE009401 1.0 Permission Of Instructor

CHBE0096

RESEARCH

Supervised research in chemical and biological engineering leading to the completion of the undergraduate honors thesis. Please see the Departmental website for specific program details and qualification requirements.

Sections

00716 CHBE009601 TBA Lee, Kyongbum 0.0-3.0 Permission Of Instructor

CHBE0099

SPECIAL TOPICS

A mentored professional experience in engineering at an off-site organization. The internship must conform to all the requirements of the School of Engineering Internship Program. The department will grant course credit for internships if all of the following conditions are met: 1) The project is approved in advance by the department, 2) a faculty mentor has supervisory and technical control of any work that receives credit, and 3) a written report is submitted that is evaluated by the faculty adviser and the outside institutional supervisor.

Prerequisites: Junior or senior standing.

Sections

00717 CHBE009901 ARR Staff 1.0 Permission Of Instructor

CHBE0102

REACTOR DESIGN

Treatment of chemical reaction equilibrium and kinetic fundamentals and application of them to the design of reactors. Topics include interpretation of reaction-rate data, establishment of reaction mechanism and rate-controlling steps, sizing, and optimization of reactors. Use of personal computer software is encouraged.

Sections

00718 CHBE010201 I+MW Meldon, Jerry H 1.0

CHBE0109

PROCESS DYNAMS & CONTROL

Mathematical modeling of chemical processes with ordinary differential equations. Feedback, feedforward, and environmental control. Block diagrams. Laplace transformation. Linearization techniques. Frequency response. Laboratory exposure to instrumentation.

Prerequisites: CHBE 21 and 22, or permission of instructor.

Sections

00719 CHBE010901 L+ Staff 1.0

CHBE0138

HAZARD WASTE TREAT TECH

(Cross-listed as CEE 138.) Hazardous waste treatment options based on physical, chemical, biological, and thermal processing technologies. Brief review of definitions and appropriate hazardous waste legislation. Introduction to pollution prevention. Traditional end-of-pipe treatment technologies. Applications to include solvent recovery, chemical fixation, land disposal, biodegradation, and special wastes. Incineration and associated environmental discharges constitute a major portion of course. Emerging technologies and evaluation of technical/economic process viability.

Prerequisites: Senior standing or consent of instructor.

Sections

Chemical and Biological Engineering

00721 CHBE013801 10 Cohen, Lawrence 1.0 C-Ist Ce 138

**CHBE0161
PROTEIN PURIFICATION**

Methods of purifying proteins at a large scale for therapeutic or industrial uses. Focus on unit operations found in a typical process flowsheet including centrifugation, membrane filtration, most modes of chromatography, and lyophilization. Topics include introduction to protein chemistry and analytical methods, effects of production host choice, and protein stability. Process economics, GMP operations and validation, and case studies of biotechnology industry separations.

Prerequisites: Permission of instructor

Sections

00722 CHBE016101 10+ Bolton, Glen 1.0

**CHBE0162
MOLECULAR BIOTECHNOLOGY**

(Cross-listed as BIO 162 and BME162.) Overview of key aspects of molecular biology and engineering aspects of biotechnology. Lecture topics include molecular biology, recombinant DNA techniques, immunology, cell biology, protein purification, fermentation, cell culture, combinatorial methods, and bioinformatics. Includes a semester-long technical project and oral presentation. (Also offered as lower-level.)

Prerequisites: Permission of instructor.

Sections

00723 CHBE016201 10+ Kaplan, David 1.0 C-Ist Bme 162

**CHBE0167
METABOLIC&CELLULAR ENGIN**

The goal is to present a framework for quantitative analysis of cellular functions, and introduce students to metabolic engineering. Metabolic engineering is a systems-oriented approach to the problem of remodeling and reconfiguring the many molecular components of the cell in order to achieve a desirable phenotype. Unlike molecule-centric approaches, which focus on only the final product-forming reaction, metabolic engineering emphasizes the metabolic pathway in its entirety. Course material analyzes cell-level processes as molecular systems. The processes to be discussed include: metabolism, protein synthesis, and regulation of gene expression. Analyses of these processes will emphasize an engineering, problem solving-oriented perspective, and will be integrated with discussions on core metabolic engineering methods: metabolic modeling, genetic engineering, and analytical biochemistry. Complementary disciplines very recently added to the metabolic engineering toolbox will also be discussed: 'omics' technologies, computational systems biology, and synthetic biology. Selected metabolic engineering applications, including conversion of biomass into fuels, will be further explored through case studies and reviews of the current literature.

Prerequisites: Open to graduate students and seniors. Backgrounds in biochemistry, numerical methods, and chemical kinetics is highly recommended.

Sections

04129 CHBE016701 K+ Lee, Kyongbum 1.0

**CHBE0168
BIOTECH PROCESS PROJ LAB**

(Cross-listed as BIO 168 and BME 168.) Laboratory experience with techniques in biotechnology processing: fermentation of recombinant E. coli cells, hybridoma cell culture, purification of proteins and antibodies and related analytical procedures. Laboratories accompanied by lectures and relevant readings to cover the underlying principles. Counts as laboratory course for biology major.

Prerequisites: Permission of instructor.

Sections

00724 CHBE016801 ARR Yi, Hyunmin 1.0 R
0600pm-0930p
m

**CHBE0173
CLEAN ENERGY TECHNOLOGIE**

(Cross-listed with Fletcher School.) This course considers current issues in power generation, identifying the technologies used to meet Clean Air Act regulations by the electric utilities and automobile manufacturers. Topics include the electric utility deregulation, distributed power sources, new energy markets, fuel efficiency, and global effects of fossil fuel use. Alternative fuels and engines will be examined from the point of view of technology readiness and global market penetration to curb air pollution and decrease carbon emissions. The costs of energy technologies and the global impacts of present policies in the U. S. and abroad will be evaluated.

Sections

00725 CHBE017301 ARR Flytzani-stepha 1.0 Mon & Wed
9:40-10:55 A.m.
At Fletcher

**CHBE0185
DRUG PRODUCT FORMULATION**

(Cross-listed as BME 185). Drug Product Formulation.

Sections

00726 CHBE018501 ARR Abraham, Leah 1.0 C-Ist Bme 185,
Tue 6-8:45 P.m.

**CHBE0292
GRADUATE SEMINAR**

Presentaion of individual reports on basic topics to a seminar for discussion and criticism.

Please see departmental website for specific details.

Sections

00730 CHBE029201 ARR Flytzani-stepha 1.0 Mon 12 Noon -
1:15 Pm

**CHBE0294
SPECIAL TOPICS**

Guided individual study of an approved topic. Designed to develop the art of self-teaching. Appraisal of the student's knowledge in the approved area based on a written and/or oral examination. Arrangemnts with a department memeber required prior to registration for the course. For doctoral degree candidates.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00731 CHBE029401 ARR Lee, Kyongbum 1.0 Permission Of
Instructor

**CHBE0296
MASTER'S THESIS RESEARCH**

Guided research on a topic suitable for a master's thesis. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00732	CHBE029601	Georgakis, Chri	1.0-3.0	Permission Of Instructor
00733	CHBE029602	Lee, Kyongbum	1.0-3.0	Permission Of Instructor
00734	CHBE029603	Kaplan, David	1.0-3.0	Permission Of Instructor
00735	CHBE029604	Meldon, Jerry H	1.0-3.0	Permission Of Instructor
00736	CHBE029605	Pfeifer, Blaine	1.0-3.0	Permission Of Instructor
00737	CHBE029606	Flytzani-stepha	1.0-3.0	Permission Of Instructor
00738	CHBE029607	Sung, Nak Ho	1.0-3.0	Permission Of Instructor
00739	CHBE029608	Ryder, Daniel F	1.0-3.0	Permission Of Instructor
00740	CHBE029609	Yi, Hyunmin	1.0-3.0	Permission Of Instructor
04120	CHBE029610	ARR Xu, Qiaobing	1.0-3.0	Permission Of Instructor

Chemical and Biological Engineering

CHBE0298

DOCTORAL THESIS RESEARCH

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00741	CHBE029801	Georgakis, Chri	2.0- 10	Permission Of Instructor
00742	CHBE029802	Flytzani-stepha	2.0- 10	Permission Of Instructor
00743	CHBE029803	Kaplan, David	2.0- 10	Permission Of Instructor
00744	CHBE029804	Meldon, Jerry H	2.0- 10	Permission Of Instructor
00745	CHBE029805	Pfeifer, Blaine	2.0- 10	Permission Of Instructor
00746	CHBE029806	Lee, Kyongbum	2.0- 10	Permission Of Instructor
00747	CHBE029807	Sung, Nak Ho	2.0- 10	Permission Of Instructor
00748	CHBE029808	Ryder, Daniel F	2.0- 10	Permission Of Instructor
00749	CHBE029809	Yi, Hyunmin	2.0- 10	Permission Of Instructor

CHBE0401

MASTER'S DEGREE CONTIN

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00750	CHBE0401PT		1.0	Permission Of Instructor
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CHBE0402

MASTER'S DEGREE CONTIN

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00751	CHBE0402FT		1.0	Permission Of Instructor
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CHBE0501

DOCTORAL DEGREE CONTIN

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00754	CHBE0501PT		1.0	Permission Of Instructor
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CHBE0502

DOCTORAL DEGREE CONTIN

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00755	CHBE0502FT		1.0	Permission Of Instructor
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Chemistry

CHEM0001

CHEM FUNDAMENTALS W/LAB

Atomic and molecular structure, intermolecular forces and states of matter, the relation of structure and bonding to the physical and chemical properties of matter, patterns of chemical reactions, stoichiometry, and thermochemistry. Additional topics may include qualitative thermodynamics and equilibrium and chemistry of materials. Three lectures, one laboratory, one recitation. Only one of CHEM 1, 11, or 16 may be counted for credit.

Sections

00767	CHEM000101	B	Haas, Terry E.	1.0	Also Reg For Mandatory Lab & Recitation
00756	CHEM0001E	6+	Staff	0.0	
00757	CHEM0001G	ARR	Staff	0.0	Tue 6:30-9:30 Pm
00758	CHEM0001I	7+	Staff	0.0	
00759	CHEM0001K	ARR	Staff	0.0	Arr Wed 6:30-9:30 Pm
00760	CHEM0001M	8+	Staff	0.0	
00761	CHEM0001P	ARR	Staff	0.0	Thurs 6:30-9:30 Pm
00762	CHEM0001R	9+	Staff	0.0	
00763	CHEM0001RA	MM	Staff	0.0	
00765	CHEM0001RC	QT	Staff	0.0	
00766	CHEM0001RE	CW	Staff	0.0	

CHEM0002

CHEM PRINCIPLES W/LAB

Properties of solutions, chemical kinetics and thermodynamics, physical and chemical equilibria, aqueous equilibria (acid-base, precipitation, and complex formation), electrochemistry. Additional topics may include environmental, nuclear, and coordination chemistry, and chemistry of selected elements. Three lectures, one laboratory, one recitation. Only one of CHEM 2 or 12 may be counted for credit.

Prerequisites: CHEM 1, 11, 16, or consent.

Sections

00802	CHEM000201	A	Kryatov, Sergiy	1.0	Also Reg For Mandatory Lab & Recitation
00803	CHEM000202	G	Kryatov, Sergiy	1.0	Also Reg For Mandatory Lab & Recitation
00768	CHEM0002A	5+	Staff	0.0	
00769	CHEM0002B	5+	Staff	0.0	
00770	CHEM0002C	ARR	Staff	0.0	Mon 6:30-9:30pm
00771	CHEM0002D	ARR	Staff	0.0	Mon 6:30-930pm
00772	CHEM0002E	1+	Staff	0.0	
00773	CHEM0002F	1+	Staff	0.0	
00774	CHEM0002G	1+	Staff	0.0	
00775	CHEM0002I	6+	Staff	0.0	
00776	CHEM0002J	7+	Staff	0.0	
00777	CHEM0002K	7+	Staff	0.0	
00778	CHEM0002L	ARR	Staff	0.0	Wed 6:30-9:30 P.m.
00779	CHEM0002M	ARR	Staff	0.0	Wed 6:30-9:30 Pm
00780	CHEM0002N	8+	Staff	0.0	
00781	CHEM0002O	8+	Staff	0.0	
00782	CHEM0002P	ARR	Staff	0.0	Thur 6:30-9:30 Pm
00783	CHEM0002Q	ARR	Staff	0.0	Thurs 6:30-9:30 Pm
00784	CHEM0002R	4+	Staff	0.0	
00785	CHEM0002RA	QM	Staff	0.0	
00786	CHEM0002RB	CT	Staff	0.0	
00787	CHEM0002RD	MW	Staff	0.0	
00788	CHEM0002RE	CF	Staff	0.0	
00789	CHEM0002RF	QR	Staff	0.0	
00791	CHEM0002RM	IW	Staff	0.0	
00792	CHEM0002RN	DM	Staff	0.0	
00793	CHEM0002RP	JR	Staff	0.0	
00794	CHEM0002RR	HT	Staff	0.0	
00796	CHEM0002RT	MM	Staff	0.0	
00797	CHEM0002S	4+	Staff	0.0	
00798	CHEM0002T	4+	Staff	0.0	
00799	CHEM0002U	9+	Staff	0.0	
00800	CHEM0002W	9+	Staff	0.0	
00801	CHEM0002X	ARR	Staff	0.0	M 0630pm-0930

00801 CHEM0002X Staff 0.0 Pm

CHEM0006

BIG BANG TO HUMANKIND

(Cross-listed as BIO 6 and AST 6). An exploration of the origins of the Universe, the formation of Earth and its structure, the chemistry of life, the development of complex organisms, and the development of modern humans including evidence for the various ideas presented, the scientific method used by scientists, and how the community of scientists evaluate the evidence. This course does not fulfill pre-med requirements for a lab-based chemistry course.

Sections

00804 CHEM000601 J+ Batchelder, Lyn 1.0 C-1st Ast/bio 0006-01

CHEM0008

ENVIRONMENTAL CHEMISTRY

(Cross-listed with ENV 8). An introductory course designed primarily to give nonscience majors an appreciation of basic chemical principles underlying the causes of and possible solutions to current environmental problems. The concept of equilibrium in complex systems; thermodynamic limits and kinetic realities. Case studies from current literature.

Prerequisites: High-school chemistry.

Sections

04416 CHEM000801 I+ Kenny, Jonathan 1.0

CHEM0012

GENERAL CHEMISTRY

Topics covered are the same as in CHEM 1 and 2, but discussed in greater detail and with a higher degree of mathematical rigor. Designed to provide a strong foundation for advanced courses in chemistry. For well-prepared students intending to be science majors. Some familiarity with elementary calculus concepts assumed. Three lectures, one seminar on frontiers in chemistry, one laboratory, one recitation. 1.5 course credits. Only one of CHEM 2 or 12 may be counted for credit.

Prerequisites: Score of at least 3 on the AP chemistry exam or permission of instructor; MATH 11 (may be taken concurrently).

Sections

00810 CHEM001201 A+AR Staff 1.5 Sci Majors Only
 00805 CHEM0012A 5+ Staff 0.0
 00806 CHEM0012C 6+ Staff 0.0
 00807 CHEM0012D ARR Staff 0.0 Tue 6:30-9:30 P.m.
 00808 CHEM0012RA IF Staff 0.0
 00809 CHEM0012RB PW Staff 0.0

CHEM0016

CHEMISTRY OF MATERIALS

An introductory course investigating the fundamentals and principles of chemistry through exploration of modern materials, e.g., thin films, superconductors, ultra-small structures, modern electronics and photonics. Topics include atomic and molecular structure, intermolecular forces, ionic and covalent bonding. This one-semester course may be used in conjunction with CHEM 2 to fulfill the basic chemistry requirement for a chemistry major. Three lectures, one recitation, one laboratory. Only one of CHEM 1, 11, or 16 may be counted for credit.

Prerequisites: Good background in mathematics.

Sections

00818 CHEM001601 E Staff 1.0 Open To First And Second Year Students
 00812 CHEM0016B ARR Staff 0.0 Mon 6:30-9:30 P.m.
 00813 CHEM0016D ARR Staff 0.0 Tue 6:30-9:30 Pm
 00814 CHEM0016E 7+ Staff 0.0
 00816 CHEM0016RA GF Staff 0.0
 00817 CHEM0016RC JR Staff 0.0

Chemistry

**CHEM0032
PHYSICAL CHEM II**

Four main topics of modern physical chemistry: elementary wave mechanics and chemical bonding, elementary statistical thermodynamics, elementary mathematical models for problems in molecular structure, topics in chemical kinetics.

Prerequisites: CHEM 2 or 12, MATH 12, and PHY 2, 4, or 12, or permission of instructor.

Sections

00819	CHEM003201	D+	Utz, Arthur	1.0	Also Reg For Physical Chem Lab And Recitation
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**CHEM0034
PHYSICAL CHEMISTRY LAB**

Spectroscopic, kinetic, and advanced physical chemistry experiments. One laboratory. One-half course.

Prerequisites: CHEM 32 or concurrent registration.

Sections

00820	CHEM0034A	ARR	Utz, Arthur	0.5	
00821	CHEM0034B	8+	Utz, Arthur	0.5	
00822	CHEM0034RA	HF	Staff	0.0	

**CHEM0042
ANALYTICAL CHEM W/LAB**

Introduction to the methods and scientific basis of quantitative analysis including sampling, error & statistical analyses, data treatment & presentation, basic concepts and operation of chromatographic, electroanalytical, and spectroscopic instrumentation. For chemistry and life science majors, as well as students enrolled in environmental studies and engineering. The course will provide students in chemistry or any related discipline with the necessary foundation, understanding, and basic tools for doing good science. Three lectures, two laboratories. One and one-half courses.

Prerequisites: CHEM 2, 12, or permission of instructor.

Sections

00826	CHEM004201	H+	Kounaves, Samue	1.5	Also Reg For Mandatory Analytical Chem Lab
00823	CHEM0042A	ARR	Staff	0.0	Mw 0120pm - 0420pm
00824	CHEM0042B	ARR	Staff	0.0	Mon & Wed 6:30-9:30 Pm
00825	CHEM0042C	ARR	Staff	0.0	Tue & Thu 6:30-9:30 Pm

**CHEM0052
ORGANIC CHEMISTRY II**

Continuation of CHEM 51. Two 75-minute lectures, one recitation. One course. (Note: The laboratory course, CHEM 54, is normally taken concurrently with CHEM 52.)

Prerequisites: CHEM 51.

Sections

00834	CHEM005201	F+TF	Stolow, Robert	1.0	Also Reg For Mandatory Organ Chem II Rct
00828	CHEM0052RA	IM	Staff	0.0	
00829	CHEM0052RB	JT	Staff	0.0	
00830	CHEM0052RC	GF	Staff	0.0	
00831	CHEM0052RD	AR	Staff	0.0	
00832	CHEM0052RE	HR	Staff	0.0	
00833	CHEM0052RG	MW	Staff	0.0	

**CHEM0054
ORGANIC CHEM II LAB**

Experiments based on topics in CHEM 52. One laboratory, one lecture. One-half course.

Prerequisites: CHEM 53. Corequisite: CHEM 52.

Sections

00850	CHEM005401	F+R	Stolow, Robert	0.5	Also Reg For Chem52-01&chem54-a Thru O/mandatory.5 C
00836	CHEM0054A	5+	Stolow, Robert	0.0	Also Register For Chem 54-01 Mandatory
00837	CHEM0054B	5+	Stolow, Robert	0.0	Also Register For Chem 54-01 Mandatory
00838	CHEM0054C	ARR	Stolow, Robert	0.0	Mon 6:30-9:30pm, Also Register For Chem 54-01 Mand
00839	CHEM0054E	6+	Stolow, Robert	0.0	Also Register For Chem 54-01 Mandatory
00840	CHEM0054F	6+	Stolow, Robert	0.0	Also Register For Chem 54-01 Mandatory
00841	CHEM0054G	ARR	Stolow, Robert	0.0	T 6:30-9:30pm/re g For Chem54-01 Mandatory
00842	CHEM0054H	ARR	Stolow, Robert	0.0	Tue 6:30-9:30pm, Reg For Chem 54-01 Mandatory
00843	CHEM0054I	7+	Stolow, Robert	0.0	Also Register For Chem 54-01 Mandatory
00844	CHEM0054J	7+	Stolow, Robert	0.0	Also Register For Chem 54-01 Mandatory
00845	CHEM0054K	ARR	Stolow, Robert	0.0	Wed 6:30-9:30 Pm, Reg. For Chem 54-01 Mandatory
00846	CHEM0054L	ARR	Stolow, Robert	0.0	Wed 6:30-9:30 Pm, Reg. For Chem 54-01 Mandatory
00847	CHEM0054M	8+	Stolow, Robert	0.0	Also Register For Chem 54-01 Mandatory
00848	CHEM0054N	8+	Stolow, Robert	0.0	Also Register For Chem 54-01 Mandatory
00849	CHEM0054O	ARR	Stolow, Robert	0.0	Thur 6:30-9:30 Pm, Reg. For Chem 54-01 Mandatory

**CHEM0091
RESEARCH I**

Training in the methods of chemical research. Frequent conferences and library assignments. Open to qualified advanced students. At least fifteen hours per week of laboratory or research work in chemistry required. Pass-fail grading.

Prerequisites: Permission of instructor.

Sections

00851	CHEM009101	ARR	Utz, Arthur	1.0	Permission Of Instructor
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Chemistry

CHEM0092 RESEARCH II

Continued training in the methods of research. At least fifteen hours per week of laboratory or other research work in chemistry required. Students write a report of research accomplished.

Prerequisites: CHEM 91 and permission of instructor.

Sections

00852	CHEM009201	ARR	Utz, Arthur	1.0	Permission Of Instructor
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CHEM0131 STAT THERMODYNAMICS

Entropy and principles of probability. Maxwell-Boltzmann statistics, heat, work, energy and chemical driving forces. Fermi Dirac statistics, counting of states and conduction. Calculation of chemical potential and equations of state from models and fundamental constants. Determination of equilibrium and transport properties. Applications may include Coulombic interactions and electrochemistry, binding and catalysis. Discussion of water and aqueous solutions.

Prerequisites: CHEM 031 and 032, MATH 13, MATH 38 recommended.

Sections

04417	CHEM013101	B+	Shultz, Mary Ja	1.0	
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CHEM0144 SPECTROSCOPIC METHODS

Spectroscopic analytical techniques, including principles and applications of spectroscopic measurements, fundamental interaction of radiation and matter, emission spectroscopy, atomic absorption, UV-visible fluorescence, Fourier transform IR, X-ray techniques, mass spectroscopy, and surface techniques such as AES, ESCA, and SIMS. Three lectures.

Prerequisites: CHEM 42 or 141, or permission of instructor.

Sections

04418	CHEM014401	9+	Robbat Jr., Alb	1.0	
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CHEM0152 ADV ORGANIC SYNTHESIS

Study of noteworthy syntheses of complex molecules with a view to developing a rationale and methodology for synthesis. Examination of the mechanism and scope of new bond-forming methods and functional group transformations. Three lectures.

Prerequisites: CHEM 52.

Sections

04419	CHEM015201	C	Bennett, Clay	1.0	
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CHEM0157 MEDICINAL CHEMISTRY

Molecular-level mechanism of action of compounds useful in human medicine. Introduces the biochemistry of a biological system relevant to a particular disease process, then focuses on the detailed interaction of chemotherapeutic agents with the system. Material is drawn principally from the primary literature. Course is not comprehensive. Topics may include antiviral/antitumor agents, compounds affecting immunity and inflammation, antibiotics, nucleic-acid-based therapeutics, and combinatorial drug discovery methods

Prerequisites: BIO 13 and CHEM 52.

Sections

04638	CHEM015701	A+	Kumar, Krishna	1.0	
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CHEM0162 CHEMISTRY TRANSITION ELM

Descriptive and theoretical chemistry of transition elements; structure, bonding, reactivity, and spectroscopic properties of metal complexes.

Prerequisites: CHEM 61 or 161.

Sections

00858	CHEM016201	D+	Haas, Terry E.	1.0	
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CHEM0172 BIOCHEMISTRY II

(Cross-listed as BIO 172.) Continuation of CHEM 171. One course.

Prerequisites: CHEM 171.

Sections

00860	CHEM017201	B+TR	Staff	1.0	C-1st Bio 172
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CHEM0192 SEMINAR IN CHEMISTRY

Discussion of specialized problems and current chemical research. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Open to qualified advanced students in chemistry.

Sections

00861	CHEM019201	ARR	Utz, Arthur	0.0	Meets Tues & Thur 4:30pm To 6:30pm
00862	CHEM019202	ARR	Utz, Arthur	0.0	F 0400pm-0600pm

CHEM0199 SENIOR THESIS II

Continuation of CHEM 195, culminating in a written thesis and oral defense. At least 20 hour per week of research is required. One course credit.

Please see departmental website for specific details.

Prerequisites: CHEM 195

Sections

00864	CHEM019901	ARR	Utz, Arthur	1.0	Permission Of Instructor/part Of Year-long Course
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CHEM0294 SPECIAL TOPICS

Guided individual study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Sections

PROF SKILLS IN CHEM RES					
00866	CHEM029401	ARR	Sykes, Charles	0.5	W 0430pm-0530pm

CHEM0296 GRADUATE RESEARCH MS

Guided research on a topic that has been approved as a suitable subject for a master's thesis. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00867	CHEM029601	ARR	Utz, Arthur	0.0-3.0	Permission Of Instructor
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Chemistry

CHEM0298 GRADUATE RESEARCH PHD

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00868	CHEM029801	ARR	Utz, Arthur	0.0-3.0	Permission Of Instructor
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CHEM0401 MASTERS DEGREE CONT

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00871	CHEM0401PT	ARR	Utz, Arthur	0.0	Permission Of Instructor
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CHEM0402 MASTERS DEGREE CONT

Full-time.

Please see departmental website for specific details.

Sections

00872	CHEM0402FT			0.0	
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CHEM0501 DOCTORAL DEGREE CONT

Part-time.

Please see departmental website for specific details.

Sections

00875	CHEM0501PT			0.0	
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CHEM0502 DOCTORAL DEGREE CONT

Full-time.

Please see departmental website for specific details.

Sections

00876	CHEM0502FT			0.0	
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Child Development

CD 0001

INTRO CHILD DEVELOPMENT

A survey of child development from infancy through adolescence. The course covers the major cognitive, physiological, emotional, and social changes that occur during this period. Midterm and final exams; observation and testing reports. Required for majors.

Sections

00335	CD 000101	D+	Gidney, Calvin	1.0
00332	CD 0001A	DM	Staff	0.0
00333	CD 0001B	NT	Staff	0.0
00334	CD 0001C	LR		0.0

CD 0007

CHILD & EDUC PROCESS

The study of child development as related to diverse educational programs for young children. Includes observations at the Eliot-Pearson Children's School as well as other selected environments, to strengthen understanding of how theories and values inform diverse approaches to early education. Lectures, videos, small group discussions of reading assignments and observational reports. (This course is a prerequisite for CD 135, 136 and must be taken prior to or concurrent with CD 171, 172.)

Prerequisites: CD 1 or permission of instructor.

Sections

00337	CD 000701	E+MW	Leekeenan, Debo	1.0	Cd 001 Or Consent
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CD 0051

INTELL DEVEL YNG CHILD

Contemporary theory and research on the development of intellectual processes from infancy through adolescence are examined. Cognitive-developmental theories and research are emphasized and compared with psychometric, information-processing, cultural context, feminism, and other approaches. Course project provides opportunity for analysis of one's own learning experiences.

Prerequisites: CD 1 or PSY 1.

Sections

00338	CD 005101	H+TR	Feldman, David	1.0	Cd 1 Or Psy 1/
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CD 0099

COMMUNITY FIELD PLCMNT

Work and study in a variety of programs serving children and families. Placements include child advocacy programs, museums, hospitals, children's media, social service centers, and government agencies. Placements are supervised in a seminar or in consultation. Variable credit.

Prerequisites: Permission of instructor.

Sections

00340	CD 009901	E+W	Scarlett, W. Ge	1.0	Consent/email George.scarlett@tufts.edu
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CD 0120

ASSESS OF YNG CHILD

Appraisal of the development of the young child from two through six years of age. Test administration; written analysis of procedures; techniques of interviewing, counseling, and reporting to parents. Spring/summer.

Prerequisites: CD 1 and permission of instructor.

Sections

00341	CD 012001	3	Staff	1.0	Consent
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CD 0124

AMERICAN SIGN LANGUAGE

Introductory course in manual communication and deafness. Covers basic sign-language structures, vocabulary, and finger spelling. Orientation to deafness covers topics such as educational approaches, family dynamics, social identity, and language acquisition.

Sections

00342	CD 012401	ARR	Clark, Terrell	1.0	1st Year Or Soph. Status
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CD 0125

AMERICAN SIGN LANG II

Basic conversational course in ASL. Through class participation, field experiences, guest speakers, and presentations, students extend their signing skills. Topics include historical, psychological, linguistic, and social aspects of American Sign Language.

Prerequisites: CD 124 or equivalent.

Sections

00343	CD 012501	ARR	Clark, Terrell	1.0	Prereq: Asl I Mon 4:30-5:45 & Tue 6-7:15
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CD 0126

AMERICAN SIGN LANG III

Third in a sequence of courses in American Sign Language and the Deaf Community. American Sign Language (or ASL) is the primary sign language of the United States and Canada. Focus on development of complicated conversational skills and expansion of various conversational strategies in ASL. Basic rules of grammar, fingerspelling and cultural behaviors of the Deaf Community will be introduced in a variety of situations (through class, social interaction, and participation in events) to extend students' exposure to the language and culture of the Deaf community.

Students are expected to volunteer 15 hours towards a project or in an office, program, or agency serving the Deaf Community.

Sections

00344	CD 012601	10	Lipsky, James S	1.0	Pre Req Cd 124 And Cd 125 Or Equivalent
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CD 0130

FIELDWORK

Work with children pre-kindergarten through grade 2 at the Eliot-Pearson Children's School, the Tufts Educational Day Care Center, and other nearby schools. Essential aspects of typical child development emphasized. Laboratory experience, seminar, conferences. (May be used to meet prepracticum requirements for state licensure as early childhood teacher.) Enrollment limited.

Prerequisites: Permission of instructor.

Sections

00345	CD 013001	ARR	Schechter, Carl	1.0	Meets Tues 12:00 - 2:30p;cd1 Psy1 Or Consent
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CD 0135

SUPERVISED TEACHING I

Supervised teaching with children in a variety of settings, such as preschools and day-care centers. Three hours per week of supplementary workshops and seminars. This course is part of a total program leading to state licensure. Students should be aware of the necessary prerequisites and additional course requirements. Variable credit.

Sections

00346	CD 013501	ARR	Schechter, Carl	0.0-3.0	Meets R 1:30-4:00 - Consent
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CD 0136

SUPERVISED TEACHING II

Supervised teaching in kindergarten through second grade in private and public elementary schools. Three hours per week of supplementary workshops and seminars. This course is part of a total program leading to licensure. Students should be aware of the necessary prerequisites and additional course requirements. Semester or yearlong placements are available. Variable credit.

Sections

00347	CD 013601	ARR	Schechter, Carl	0.0-3.0	Meets Thurs 1:30-4:00 Pm @ Ep
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Child Development

**CD 0140
PROBS RESRCH:STATISTICS**

Elementary statistics procedures up through and including analysis of variance. Instruction and practice in use of prepackaged computer programs useful in social science research.

Prerequisites: Senior or graduate status and background in fundamental mathematics or elementary statistics.

Sections

00348 CD 014001 13 Parker, Sean 1.0 Sr Or Grad/

**CD 0141
INDEPENDENT STUDY**

Individual study of an approved topic.

Please see departmental website for specific details.

Sections

00349	CD 014101	ARR	Bers, Marina U.	1.0	Permission Of Instructor
00350	CD 014102	ARR	Camara, Kathlee	1.0	
00351	CD 014103	ARR	Clark, Terrell	1.0	
00352	CD 014104	ARR	Dobrow, Julie	1.0	
00353	CD 014105	ARR	Easterbrooks, M	1.0	
00354	CD 014106	ARR	Staff	1.0	
00355	CD 014107	ARR	Feldman, David	1.0	
00356	CD 014108	ARR	Gidney, Calvin	1.0	
00357	CD 014109	ARR	Jacobs, Francin	1.0	
00358	CD 014110	ARR	Leekeenan, Debo	1.0	
00359	CD 014111	ARR	Lerner, Richard	1.0	
00360	CD 014112	ARR	Leventhal, Tama	1.0	
00361	CD 014113	ARR	Mcwayne, Christ	1.0	
00362	CD 014114	ARR	Mistry, Jayanth	1.0	
00363	CD 014115	ARR	Meltzer, Lynn	1.0	
00364	CD 014116	ARR	Schechter, Carl	1.0	
00365	CD 014117	ARR	Pinderhughes, E	1.0	
00366	CD 014118	ARR	Pott, Martha	1.0	
00367	CD 014119	ARR	Scarlett, W. Ge	1.0	
00368	CD 014120	ARR	Schechter, Carl	1.0	
00369	CD 014121	ARR	Staff	1.0	
00370	CD 014122	ARR	Staff	1.0	
00371	CD 014123	ARR	Staff	1.0	

**CD 0143
SPECIAL TOPICS**

Group seminar study of an approved topic that is not covered by a regular course in the department. Please contact the department for detailed information.

Sections

TEACH ROBOTICS URBAN SC

04415 CD 014301 ARR Bers, Marina U. 1.0 Consent/tues.7:30-9:30/robotics Over Spring Break

CHILD HEALTH SEM.& INTE

00388 CD 014302 ARR Licenziato, Vin 1.0 Thurs.6:30-8:15 /e-mail Vincent.licenziat o@bmc.org

RESEARCH SEM.MUS&YOUTH

00389 CD 014303 4 Camara, Kathlee 0.0-2.0 Consent Of Instr.

ARTS,RESILIENCE &SOC.ACT

00390 CD 014304 7+ Camara, Kathlee 1.0 C-list Pjs 0150-04

HOMELESS IN AMERICA

00391 CD 014305 E+MW Rubin, Roberta 1.0 C-1st Uep 181 & Soc 149-01

GROWTH&DEV.KNOW.DOMAINS

00393 CD 014307 4 Feldman, David 1.0 Jr.,sr., Grad + Cd 51, Cd 151, Or Ed 130

EVOL.PROSP.FAMILY DEV.

00395 CD 014309 0 Pott, Martha 1.0 Jr.,sr.grad Stud.cd 1; Psych 1 Or Anthro 1

ADOLE.SDEV.RESERARCH MET

00396 CD 014310 8+ Lerner, Richard 1.0 Undergraduates Only

NEIGHBORHD.CONTEXT CHILD

04490 CD 014312 6 Leventhal, Tama 1.0 Jr., Sr., Or Grad Status

FAM.SCHOOLS & CHILD DEV

00397 CD 014313 0 Mcwayne, Christ 1.0 Jr., Sr., Or Grad Status

RES.SEM.FAM.&CHILD DIV.

00399 CD 014317 TBA Pinderhughes, E 1.0 Pre-req: Cd 1 Or Psy 1

CHILD.DEV.IN DIVERSE FAM

04491 CD 014318 6 Pinderhughes, E 1.0 Ug-consent Of Instr.

**CD 0144
QUAL RESEARCH METHODS**

An interdisciplinary overview of qualitative research methods. Focus on providing tools and strategies for practitioners and researchers in social sciences to pursue systematic inquiry in applied settings.

Sections

00400 CD 014401 L+ Mistry, Jayanth 1.0 Senior Or Grad Standing

**CD 0145
TECH TOOLS FOR LEARNING**

(Cross-listed as ED 182.) Explores the design and use of new tools to think with, including "hands-on" technological tools (software) and "heads-in" theories and values to examine tools suitable for a wide variety of age levels, settings, and topic areas.

Prerequisites: Permission of instructor.

Sections

00401 CD 014501 3 Bers, Marina U. 0.0 Consent C-1st Ed 182; Meets Thur 9-11:30 A.m.

**CD 0156
NEUROSCI & DISORDER DEV**

This course will examine the interface of neuroscience and child development, with a focus on the neurophysiological basis of developmental disorders. A basic introduction to the brain and nervous system provides the backdrop for further exploration of neurophysiological development. Students will be introduced to the experimental methods used to study normal development and developmental disorders. Primary literature will be read to provide up-to-date understanding of the biology of major developmental disorders (including Autism, ADHD, Dyslexia).

Sections

00402 CD 015601 12+ Vega, Clemente 1.0 Jr,sr Or Grad Status;cd 1 Or Psy 1

**CD 0161
ADV PERS & SOC DEVEL**

This course deals with personality and social development from infancy through adolescence. Topics to be covered include continuity in development, attachment, sex-role development, empathy and friendship, social cognition, and moral development. A combination chronological/topical approach will be followed. Advanced course for seniors and graduate students.

Sections

00404 CD 016101 13+ Pott, Martha 1.0 Senior Or Grad Standing

**CD 0167
CHILDREN & MASS MEDIA**

Why educators, broadcasters, advertisers, and politicians consider children a special audience of the mass media. Examination of children's media content (television, video, computers, film, and print) and the effects of media on children and adolescents. Regulations that govern children's media use, including V-chip, ratings systems, and Internet access. Student projects on media literacy and other topics.

Sections

00406 CD 016701 4 Dobrow, Julie 1.0

Child Development

CD 0172

READING & LANGUAGE ARTS

Approaches to teaching reading to elementary-school-aged children and an examination of methods for integrating reading and language arts instruction into the total curriculum.

Sections

00408 CD 017201 12+ Anton-oldenburg 1.0

CD 0176

CHILDREN'S LITERATURE

Analysis of literature for children from preschool age to early teens from developmental-learning and literary perspectives. Final project: story or book for children, or critique/analysis of some genre or issue of children's literature.

Sections

00409 CD 017601 ARR Reynolds, Mario 0.0
Tues
6-9pm/soph. Jr.
Sr. Grad.stud
Or Consent

CD 0177

BILINGUAL STUDIES-US

(Cross-listed as LING 177). Relationship of culture and language, including macro-level focus on issues related to linguistic and cultural integration of immigrant children and families, such as language and ethnic identity, language and nationalism. Topics will also include theoretical perspectives on second-language learning, bilingualism, and bilingual education. These topics will be examined using case studies from multilingual nations.

Sections

00410 CD 017701 H+ Gidney, Calvin 1.0
Cd 155
Recommended

CD 0179

CHILD ART

The nature and developmental implications of the art of the young child, with emphasis on the ways in which cognitive and expressive factors influence the artistic process. Consideration of appropriate materials and activities for preschool and elementary-school-age children. Studio work is an integral part of the course.

Sections

00411 CD 017901 5+ Smith, Cynthia 1.0

CD 0181

CHLD CARE:POL & PRACT

(Cross-listed as UEP 183.) Study of child care within the context of social policy, child development, and early-childhood education. Examination of legislation, funding, programming, curriculum, and staffing; and how age, stage, gender, race, culture, and family lifestyle affect the child's experience of child care. Students use Tufts Educational Day Care Center as a laboratory.

Prerequisites: CD 1 or PSY 1, or permission of instructor.

Sections

00412 CD 018101 1 Staff 0.0
Cross-listed
W.uep 183-01

CD 0187

TEACHING/DRAMA&IMPROV

(Cross-listed as DR 187 and ED 187.) Review of the theory and practice of using drama in education. Aspects of dramatic expression, including dramatic play, improvisation, and story dramatization, as tools for extending the educational experiences of children and adolescents. Particularly suited for those interested in teaching preschool, elementary, middle, or secondary school.

Sections

00492 CD 018701 6+ Camara, Kathlee 0.0
Cross Listed
W/dr 187/ed
187

CD 0188

SEMINAR IN GOVT & FAMILY

(Cross-listed as UEP 188.) Examines government's role in promoting family development and well-being. Analysis of policies with implications for children and families. Case material from the United States and other countries. Topics will vary but may include parental leave, child protection, child care, health care, family support, and immigration.

Prerequisites: CD 182 or permission of instructor.

Sections

00413 CD 018801 3 Weisz, Virginia 1.0
C-1st Uep188
Preq:cd/jr, Sr Or
Grad Uep 182
Or Consent

CD 0190

CHILDREN W/SPECIAL NEEDS

The role that genetic mechanisms, trauma, environment, and acute and chronic disease play in affecting the child's physical, cognitive, and social-emotional development. Students will observe children with various physical and developmental disabilities in both separate and integrated settings. Educational implications for children with these conditions will be discussed.

Sections

04495 CD 019001 13+ Vanderberg, Lau 0.0

CD 0192

APPRCH TO PROB BEHAVIOR

Prevention and management of problem behaviors in young children in a variety of settings (e.g., home, school, clinic, hospital). Theoretical approaches to identification and treatment of unusual or atypical behaviors interfering with development; clinical applications of specialized techniques.

Sections

00414 CD 019201 8 Scarlett, W. Ge 1.0

CD 0193

PEDIATRIC PSYCHOLOGY

Research, clinical practice, and public policy focusing on children's health. Application of child development theories, methodologies, and empirical database to problems in health care. Focus is biopsychosocial and multidisciplinary, aiming at comparison and integration of perspectives of researchers, clinicians, advocates, and policymakers. Topics chosen from psychosocial stress and illness; adaptation to chronic illness including diabetes, childhood cancer and pediatric AIDS; mental health in primary care; behavioral and developmental pediatrics; schools as health-care delivery agents; prevention and health promotion; adolescent pregnancy.

Sections

04496 CD 019301 11 Modry-mandell, 0.0
Jr. Sr., Grad Or
Consent

CD 0198

SENIOR HONORS THESIS

Senior Honors Thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00415	CD 019801	ARR	Bers, Marina U.	1.0	Permission Of Instructor
00416	CD 019802	ARR	Camara, Kathlee	1.0	Permission Of Instructor
04497	CD 019805	ARR	Easterbrooks, M	0.0	Permission Of Instructor
04498	CD 019807	ARR	Feldman, David	0.0	Permission Of Instructor
04499	CD 019808	ARR	Gidney, Calvin	0.0	Permission Of Instructor
04500	CD 019809	0+	Jacobs, Francin	0.0	Permission Of Instructor
04501	CD 019810	ARR	Leekeenan, Debo	0.0	Permission Of Instructor
04502	CD 019811	ARR	Lerner, Richard	0.0	Permission Of Instructor

Child Development

04503	CD 019812	ARR	Leventhal, Tama	0.0	Permission Of Instructor
04504	CD 019813	ARR	Mcwayne, Christ	0.0	Permission Of Instructor
04505	CD 019814	ARR	Mistry, Jayanth	0.0	Permission Of Instructor
04506	CD 019817	ARR	Pinderhughes, E	0.0	Permission Of Instructor
04507	CD 019818	ARR	Pott, Martha	0.0	Permission Of Instructor
04508	CD 019819	ARR	Scarlett, W. Ge	0.0	Permission Of Instructor
04509	CD 019820	ARR	Schechter, Carl	0.0	Permission Of Instructor

CD 0199 COMMUNITY FLD PLACEMENT

Graduate equivalent of CD 99. (See description under CD 99.)

Please see departmental website for specific details.

Sections

00419	CD 019901	E+W	Scarlett, W. Ge	1.0	Consent- Email George.scarlett@tufts.edu
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CD 0201 GRADUATE SEMINAR

Professional development seminar for doctoral students. Discussion of doctoral program and presentation of individual reports on basic topics to a seminar group for discussion and criticism.

Please see departmental website for specific details.

Sections

PROSEM

00420	CD 020101	ARR	Pinderhughes, E	0.0	Mon. 9:309-12:00 Consent S/u Grade
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CD 0232 INTERNSHIP

(Master's degree students only.) Field placement related to child development and practice at an advanced level. Variable credit.

Please see departmental website for specific details.

Prerequisites: Prior course work in early-childhood education, including student teaching and curriculum, or permission of instructor.

Sections

00421	CD 023201	ARR	Bers, Marina U.	0.5-2.0	Perm Of Inst
00422	CD 023202	ARR	Camara, Kathlee	0.5-2.0	Permission Of Instructor
00423	CD 023203	ARR	Dobrow, Julie	0.5-2.0	Permission Of Instr.
00425	CD 023205	ARR	Easterbrooks, M	0.5-2.0	Permission Of Instr.
00427	CD 023207	ARR	Feldman, David	0.5-2.0	Permission Of Instructor
00428	CD 023208	ARR	Gidney, Calvin	0.5-2.0	Permission Of Instructor
00429	CD 023209	ARR	Jacobs, Francin	0.5-2.0	Permission Of Instr.
00430	CD 023210	ARR	Leekeenan, Debo	0.5-2.0	Permission Of Instr.
00431	CD 023211	ARR	Lerner, Richard	0.5-2.0	Permission Of Instr.
00432	CD 023212	ARR	Leventhal, Tama	0.5-2.0	Permission Of Instr.
00433	CD 023213	ARR	Mcwayne, Christ	0.5-2.0	Permission Of Instr.
00434	CD 023214	ARR	Mistry, Jayanth	0.5-2.0	Permission Of Instr.
00437	CD 023217	ARR	Pinderhughes, E	0.5-2.0	Permission Of Instr.
00438	CD 023218	ARR	Pott, Martha	0.5-2.0	Permission Of Instr.
00439	CD 023219	ARR	Scarlett, W. Ge	0.5-2.0	Permission On Instructor
04592	CD 023220	ARR	Schechter, Carl	0.5-2.0	Permission Of Instr

CD 0237 DOCTORAL INTERNSHIP

Supervised field placement for doctoral students in one of the applied child development fields. Variable credit.

Please see departmental website for specific details.

Sections

00455	CD 023701	ARR	Bers, Marina U.	2.0	Permission Of Instructor
00456	CD 023702	ARR	Camara, Kathlee	2.0	
00457	CD 023703	ARR	Clark, Terrell	2.0	
00458	CD 023704	ARR	Dobrow, Julie	2.0	
00459	CD 023705	ARR	Easterbrooks, M	2.0	
00461	CD 023707	ARR	Feldman, David	2.0	
00462	CD 023708	ARR	Gidney, Calvin	2.0	
00463	CD 023709	ARR	Jacobs, Francin	2.0	
00464	CD 023710	ARR	Leekeenan, Debo	2.0	
00465	CD 023711	ARR	Lerner, Richard	2.0	
00466	CD 023712	ARR	Leventhal, Tama	2.0	
00467	CD 023713	ARR	Staff	2.0	
00468	CD 023714	ARR	Mistry, Jayanth	2.0	
00469	CD 023715	ARR	Staff	2.0	
00470	CD 023716	ARR	Staff	2.0	
00471	CD 023717	ARR	Pinderhughes, E	2.0	
00472	CD 023718	ARR	Pott, Martha	2.0	
00473	CD 023719	ARR	Scarlett, W. Ge	2.0	
00474	CD 023720	ARR	Schechter, Carl	2.0	

CD 0238 TEACHING INTERNSHIP

A teaching internship on the preschool to elementary levels for a minimum of 400 hours, accompanied by a series of workshops and seminars. The course is intended for those seeking to meet the requirements for standard certification and others seeking professional development. Teaching interns are required to develop a portfolio documenting various facets of their teaching experience. Variable credit.

Prerequisites: Provisional certification and permission of instructor.

Sections

00488	CD 023801	ARR	Bers, Marina U.	1.0	Permission Of Instructor
00489	CD 023802	ARR	Camara, Kathlee	1.0	Permission Of Instructor
00490	CD 023803	ARR	Clark, Terrell	1.0	
00491	CD 023804	ARR	Dobrow, Julie	1.0	
00492	CD 023805	ARR	Easterbrooks, M	1.0	
00493	CD 023806	ARR	Staff	1.0	Permission Of Instr.
00494	CD 023807	ARR	Feldman, David	1.0	
00495	CD 023808	ARR	Gidney, Calvin	1.0	
00496	CD 023809	ARR	Jacobs, Francin	1.0	
00497	CD 023810	ARR	Leekeenan, Debo	1.0	
00498	CD 023811	ARR	Lerner, Richard	1.0	
00499	CD 023812	ARR	Leventhal, Tama	1.0	
00500	CD 023813	ARR	Mcwayne, Christ	1.0	Permission Of Instr.
00501	CD 023814	ARR	Mistry, Jayanth	1.0	
00502	CD 023815	ARR	Meltzer, Lynn	1.0	
00503	CD 023816	ARR	Schechter, Carl	1.0	
00504	CD 023817	ARR	Pinderhughes, E	1.0	
00505	CD 023818	ARR	Pott, Martha	1.0	
00506	CD 023819	ARR	Scarlett, W. Ge	1.0	Permission Of Instr.
04593	CD 023820	ARR	Schechter, Carl	1.0	Permission Of Instructor

CD 0241 DIRECTED RESEARCH

Supervised research on an approved topic in applied child development. Variable credit.

Please see departmental website for specific details.

Sections

00520	CD 024101	ARR	Bers, Marina U.	1.0	Permission Of Instructor
00521	CD 024102	ARR	Camara, Kathlee	1.0	
00522	CD 024103	ARR	Clark, Terrell	1.0	
00523	CD 024104	ARR	Dobrow, Julie	1.0	

Child Development

00524	CD 024105	ARR	Easterbrooks, M	1.0
00525	CD 024106	ARR	Staff	1.0
00526	CD 024107	ARR	Feldman, David	1.0
00527	CD 024108	ARR	Gidney, Calvin	1.0
00528	CD 024109	ARR	Jacobs, Francin	1.0
00529	CD 024110	ARR	Leekeenan, Debo	1.0
00530	CD 024111	ARR	Lerner, Richard	1.0
00531	CD 024112	ARR	Leventhal, Tama	1.0
00532	CD 024113	ARR	Mcwayne, Christ	1.0
00533	CD 024114	ARR	Mistry, Jayanth	1.0
00534	CD 024115	ARR	Meltzer, Lynn	1.0
00536	CD 024117	ARR	Pinderhughes, E	1.0
00537	CD 024118	ARR	Pott, Martha	1.0
00538	CD 024119	ARR	Scarlett, W. Ge	1.0
00539	CD 024120	ARR	Schechter, Carl	1.0

CD 0243
SPECIAL TOPICS

Guided individual study of an approved topic. Please contact the department for detailed information.

Please see departmental website for specific details.

Sections

GRADUATE INTERNSHIP SEM.

00555	CD 024302	ARR	Pott, Martha	0.0	Must Also Reg For Cd 232
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CD 0244
SPECIAL TOPICS

Guided individual study of an approved topic. Please contact the department for detailed information.

Please see departmental website for specific details.

Sections

00557	CD 024401	ARR	Bers, Marina U.	1.0	Permission Of Instructor
00558	CD 024402	ARR	Camara, Kathlee	1.0	Permission Of Instr.
00559	CD 024403	ARR	Clark, Terrell	1.0	Permission Of Instr.
00560	CD 024404	ARR	Dobrow, Julie	0.0	Permission Of Instr.
00561	CD 024405	ARR	Easterbrooks, M	1.0	Permission Of Instr.
04524	CD 024406	ARR	Staff	0.0	Permission Of Instr.
00563	CD 024407	ARR	Feldman, David	1.0	Permission Of Instr.
00564	CD 024408	ARR	Gidney, Calvin	1.0	Permission Of Instr.
00565	CD 024409	ARR	Jacobs, Francin	1.0	Permission Of Instr.
00566	CD 024410	ARR	Leekeenan, Debo	1.0	Permission Of Instr.
00567	CD 024411	ARR	Lerner, Richard	1.0	Permission Of Instr.
00568	CD 024412	ARR	Leventhal, Tama	1.0	Permission Of Instr.
00569	CD 024413	ARR	Mcwayne, Christ	1.0	Permission Of Instr.
00570	CD 024414	ARR	Mistry, Jayanth	1.0	Permission Of Instr.
00571	CD 024415	ARR	Meltzer, Lynn	1.0	Permission Of Instr.
00573	CD 024417	ARR	Pinderhughes, E	1.0	Permission Of Instr.
00574	CD 024418	ARR	Pott, Martha	1.0	Permission Of Instr.
00575	CD 024419	ARR	Scarlett, W. Ge	1.0	Permission Of Instr.
00576	CD 024420	ARR	Schechter, Carl	1.0	Permission Of Instr.
00577	CD 024421	ARR	Staff	1.0	

CD 0246
THESIS

Guided research on a topic that has been approved as a suitable subject for a master's thesis.

Please see departmental website for specific details.

Sections

00592	CD 024601	ARR	Bers, Marina U.	1.0	Permission Of Instructor
00593	CD 024602	ARR	Camara, Kathlee	1.0	Permission Of Instr.
00594	CD 024603	ARR	Clark, Terrell	1.0	Permission Of Instr.
00595	CD 024604	ARR	Dobrow, Julie	1.0	Permission Of Instr.
00596	CD 024605	ARR	Easterbrooks, M	1.0	Permission Of Instr.
00597	CD 024606	ARR	Staff	1.0	Permission Of Instr.
00598	CD 024607	ARR	Feldman, David	1.0	Permission Of Instr.
00599	CD 024608	ARR	Gidney, Calvin	1.0	Permission Of Instr.
00600	CD 024609	ARR	Jacobs, Francin	1.0	Permission Of Instr.
00601	CD 024610	ARR	Leekeenan, Debo	1.0	Permission Of Instr.
00602	CD 024611	ARR	Lerner, Richard	1.0	Permission Of Instr.
00603	CD 024612	ARR	Leventhal, Tama	1.0	Permission Of Instr.
00604	CD 024613	ARR	Mcwayne, Christ	1.0	Permission Of Instr.
00605	CD 024614	ARR	Mistry, Jayanth	1.0	Permission Of Instr.
00606	CD 024615	ARR	Meltzer, Lynn	1.0	Permission Of Instr.
00608	CD 024617	ARR	Pinderhughes, E	1.0	Permission Of Instr.
00609	CD 024618	ARR	Pott, Martha	1.0	Permission Of Instr.
00610	CD 024619	ARR	Scarlett, W. Ge	1.0	Permission Of Instr.
00611	CD 024620	ARR	Schechter, Carl	1.0	Permission Of Instr.

CD 0247
PROGRAM EVALUATION

(Cross-listed as UEP 256.) Purposes for and types and techniques of program evaluation. Study of the evaluation process, including design, implementation, and dissemination, with focus on development of relevant data collection, analysis, and report-writing skills. Emphasis on learning to match programs to evaluation models, optimizing eventual evaluation utilization. Students design evaluations for existing program.

Sections

00624	CD 024701	ARR	Jacobs, Francin	1.0	Grad Stand, consent, c -1st Uep 256
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CD 0261
SEM IN PERSNL/SOC DEV

Seminar format for in-depth exploration of various topics in social and personality development. Topics may include development of the self, attachment, and emotional development. Prerequisite: graduate status. Typically, a single topic will be covered during the semester.

Sections

RESILIENCE, THEORY, RESE

00626	CD 026101	6	Easterbrooks, M	1.0	Grad Status; Cd 161 Or Consent
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CD 0298
DOCTORAL DISSERTATION

Supervised research on a topic approved for the dissertation.

Please see departmental website for specific details.

Sections

00628	CD 029801	ARR	Bers, Marina U.	1.0	Permission Of Instructor
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Child Development

00629	CD 029802	ARR	Camara, Kathlee	1.0	Permission Of Instr.
00630	CD 029803	ARR	Clark, Terrell	1.0	Permission Of Instr.
00631	CD 029804	ARR	Dobrow, Julie	1.0	Permission Of Instr.
00632	CD 029805	ARR	Easterbrooks, M	1.0	Permission Of Instr.
00634	CD 029807	ARR	Feldman, David	1.0	Permission Of Instr.
00635	CD 029808	ARR	Gidney, Calvin	1.0	Permission Of Instr.
00636	CD 029809	ARR	Jacobs, Francin	1.0	Permission Of Instr.
00637	CD 029810	ARR	Leekeenan, Debo	1.0	Permission Of Instr.
00638	CD 029811	ARR	Lerner, Richard	1.0	Permission Of Instr.
00639	CD 029812	ARR	Leventhal, Tama	1.0	Permission Of Instr.
00640	CD 029813	ARR	Mcwayne, Christ	1.0	Permission Of Instr.
00641	CD 029814	ARR	Mistry, Jayanth	1.0	Permission Of Instr.
00642	CD 029815	ARR	Meltzer, Lynn	1.0	Permission Of Instr.
00644	CD 029817	ARR	Pinderhughes, E	1.0	Permission Of Instr.
00645	CD 029818	ARR	Pott, Martha	1.0	Permission Of Instr.
00646	CD 029819	ARR	Scarlett, W. Ge	1.0	Permission Of Instr.
00647	CD 029820	ARR	Schechter, Carl	1.0	Permission Of Instr.

CD 0401 MASTERS DEGREE CONT

Part-time.

Please see departmental website for specific details.

Sections

00657 CD 0401PT 0.0

CD 0402 MASTERS DEGREE CONT

Full-time.

Please see departmental website for specific details.

Sections

00658 CD 0402FT 0.0

CD 0501 DOCTORAL DEGREE CONT

Part-time.

Please see departmental website for specific details.

Sections

00661 CD 0501PT 0.0

CD 0502 DOCTORAL DEGREE CONT

Full-time.

Please see departmental website for specific details.

Sections

00662 CD 0502FT 0.0

Chinese

**CHNS0002
ELEMENTARY CHINESE**

Active command of both oral and written Chinese stressed; emphasis on pronunciation and conversation, pinyin and characters, basic vocabulary and structures. Supplemented by laboratory drills.

Prerequisites: CHNS I or equivalent.

Sections

00877	CHNS0002A	F+FF	Feng, Jianping	1.0	
00878	CHNS0002B	C+CF	Feng, Jianping	1.0	
00879	CHNS0002C	E+EF	Kuriyama, Joann	1.0	
00880	CHNS0002D	C+CF	Wan, Min	1.0	
00881	CHNS0002H	D	Kuriyama, Joann	1.0	Instructor Recommendati on

**CHNS0004
INTERMEDIATE CHINESE**

Continuation of CHNS 3. Emphasis on basic vocabulary and structures, conversation, reading, and writing. Supplemented by laboratory drills.

Prerequisites: CHNS 3 or equivalent.

Sections

00882	CHNS0004A	DMD+	Wang, Shaomei	1.0	
00883	CHNS0004B	ARR	Kuriyama, Joann	1.0	
00884	CHNS0004H	J	Wang, Shaomei	1.0	Instructor Recommendati on

**CHNS0022
READING & CONVERSATION**

Designed for students with the equivalent of two years of college Chinese. In addition to further vocabulary development, grammar review, and reading of contemporary prose essays, skills in conversation, translation, and composition are also stressed. Conducted mainly in Chinese. Supplemented by laboratory drills.

Prerequisites: CHNS 21 or equivalent.

Sections

00885	CHNS0022A	F+FF	Li, Jinyu	1.0	
00886	CHNS0022B	G+GF	Li, Mushi	1.0	
00887	CHNS0022C	JMJ+	Li, Mushi	1.0	
00889	CHNS0022H	H	Li, Jinyu	1.0	Instructor Recommendati on

**CHNS0078
YOUTH&CULTURE MOD CHINA**

How "youth" came to be conceptualized in modern China and for what reasons. Reading, watching, and discussing modern Chinese fiction, poetry, essays, film, and scholarly writings. How, as a modern political, social, and cultural category, youth has played a unique role in China's quest for modernization.

Sections

04116	CHNS007801	G+	Zhong, Xueping	1.0	In English
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**CHNS0092
SPECIAL TOPICS**

Selected topics in literature and culture. In English.

Please see departmental website for specific details.

Sections

HEROES&ANTIHEROS IN LIT

04117	CHNS009201	D+	Smilack, Jascha	1.0	In English
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**CHNS0094
DIRECTED STUDY**

Directed study.

Please see departmental website for specific details.

Prerequisites: Prior permission of instructor is required.

Sections

00891	CHNS009401		Wang, Mingquan	0.0-3.0	Permission Of Instructor
00892	CHNS009402		Li, Jinyu	0.0-3.0	Permission Of Instructor
00893	CHNS009403		Feng, Jianping	0.0-3.0	
00894	CHNS009405		Wang, Shaomei	0.0-3.0	Permission Of Instructor
00895	CHNS009406	ARR	Zhong, Xueping	0.0-3.0	Permission Of Instructor

**CHNS0122
ADVANCED CHINESE II**

Designed for students with the equivalent of three years of college Chinese. Intensive practice in speaking, reading, writing, and translating. Emphasis on contemporary materials dealing with cultural topics. Conducted in Chinese. Supplemented by laboratory drills.

Prerequisites: CHNS 121 or equivalent.

Sections

00897	CHNS0122A	DMD+	Wan, Min	1.0	
00898	CHNS0122B	E+EF	Wan, Min	1.0	
00899	CHNS0122H	H	Feng, Jianping	1.0	Instructor Recommendati on

**CHNS0124
ADV READING CHINESE CULT**

Consult Department for details of specific offerings.

Prerequisites: CHNS 122 or equivalent.

Sections

00900	CHNS012401	H+	Wang, Shaomei	1.0	
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**CHNS0126
BUSINESS CHINESE**

Advanced Chinese course for those interested in contemporary Chinese business communications. Covers various types of authentic business-related language materials, both oral and written. Emphasis on cultural and linguistic aspects of the Chinese business communications. Objectives include a better understanding of the business world in China, its practices and trends, as well as development of language skills in listening, speaking, reading, and writing.

Prerequisites: CHNS 122 or equivalent.

Sections

04118	CHNS012601	J+	Li, Jinyu	1.0	
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**CHNS0192
SPECIAL TOPICS**

Special Topics.

Please see departmental website for specific details.

Sections

CHINA AND THE WEST

00902	CHNS019201	ARR	Zhong, Xueping	1.0	Meets W4:00-7:00pm; In English; C-1st ilvs 92-18
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Chinese

CHNS0194

ADVANCED DIRECTED STUDY

Guided independent study in Chinese language, literature, and culture.

Please see departmental website for specific details.

Prerequisites: Prior permission of instructor is required.

Sections

00903	CHNS019406	ARR	Zhong, Xueping	1.0	Permission Of Instructor
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CHNS03/4

INTENSIVE INTERMED CHNS

Continuation of CHNS 1-2. Combining CHNS 3 and 4 into one semester, this course is designed for those who want to move faster. Meets every day. Two credits.

Prerequisites: CHNS 2, 1-2, or equivalent.

Sections

00905	CHNS03/401	ARR	Wang, Mingquan	2.0	Class Meets Cdmd+,mtwf9:30-10:20am Tr10:30-11:45am
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Civil and Environmental Engineering (beginning Summer 2011)

**CEE 0001
INTRO CIVIL & ENVIRON EN**

Fundamental principles of civil and environmental engineering and their application to engineered and natural systems. Engineering materials. Environmental, geotechnical, structural, and water resource systems. With Laboratory.

Prerequisites: MATH 12, EN 2, ES 5; Co-requisite: ES 9.

Sections

03837	CEE 000101	C	Swan, Christoph	1.0	Also Register For Lab Cee 01-I
03838	CEE 0001LA	10	Swan, Christoph	0.0	Mandatory Lab Also Reg For Cee 01
03839	CEE 0001LB	6	Swan, Christoph	0.0	Mandatory Lab Also Reg For Cee 01
03840	CEE 0001LC	8	Swan, Christoph	0.0	Mandatory Lab Also Reg For Cee 01

**CEE 0012
INTRO TO HYDRAULIC ENG**

The application of principles of fluid mechanics to problems of engineering design and practice. The equations of continuity, momentum, and energy are applied to problems in river engineering, dam design, hydromachinery, floodplain delineation, water-distribution systems, culverts, turbines, and other hydraulic structures. With laboratory.

Prerequisites: ES 8.

Sections

03841	CEE 001201	F+TR	Islam, Shafiqul	1.0	Also Register For Lab Cee 12-I
03842	CEE 0012A	5	Islam, Shafiqul	0.0	Mandatory Lab Also Reg For Cee 12
03843	CEE 0012B	11	Islam, Shafiqul	0.0	Mandatory Lab Also Reg For Cee 12
03844	CEE 0012C	13	Islam, Shafiqul	0.0	Mandatory Lab Also Reg For Cee 12

**CEE 0024
STEEL DESIGN**

Design of steel structural members. Determination of stresses and strains in structural members, the proportioning of members, and the design of connections for beams, girders, trusses, and frames. Work in structural representation.

Prerequisites: CEE 22.

Sections

03845	CEE 002401	K+	Hines, Eric	1.0	Also Register For Cee 24 Recitation
03846	CEE 0024RA	I+	Hines, Eric	0.0	Mandatory Rect Also Reg For Cee 24
03847	CEE 0024RB	M+	Hines, Eric	0.0	Mandatory Rect Also Reg For Cee 24

**CEE 0032
ENVIRONMENTAL EN PRIN**

Water quantity and quality, air quality, energy utilization, climate change, and sustainability. Material and energy balance. Chemical and biological transformations. Elementary transport and fate modeling. Quantitative description of natural and engineered processes affecting environmental sustainability at local, regional, and global scales.

Prerequisites: ES 2, MATH 12, CHEM 1 or 11 or 16, and PHY 11

Sections

03848	CEE 003201	H+	Pennell, Kurt	1.0	
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**CEE 0054
FUNDAMENTAL EPIDEMIOLOGY**

(Cross-listed as CH 54 and ENV 54.) A single course which provides students an introduction to epidemiologic techniques and analyses, including such topics as incidence and prevalence, age adjustment, and other techniques appropriate for the handling of confounders, the measurement of risk through the odds ratio and relative risk, and the interpretation of epidemiologic results. The course will feature applications of epidemiologic techniques to topics appropriate for public and community health applications such as those found in infectious disease control, screening for personal risk factors, and the conducting of disease cluster evaluations.

Sections

03849	CEE 005401	H+	Woodin, Mark A	1.0	
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**CEE 0070
INTRO HAZARD MAT MANGMNT**

(Cross-listed as ENV 70.) A survey of technology, health, and policy issues in hazardous materials and hazardous waste management. Topics will be examined from a scientific and technological perspective and will include characteristics of hazardous materials; health effects; hazard, exposure, and risk assessment; regulatory framework; distribution of contaminants in the environment; and an overview of remedial technologies used to clean up hazardous waste.

Prerequisites: CHEM 1 or 16, ES 11 or BIO 13, and CEE 1 or CEE 32

Sections

03850	CEE 007001	E+MW	Desmarais, Anne	1.0	
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**CEE 0081
CIVIL & ENVIRO EN DESIGN**

Integrated design and project management methods used in conceiving, developing, and managing one-of-a-kind civil and environmental engineering projects. This capstone design experience includes pre-site investigation and site planning, detail drawings, bidding documents, quantity take-off and cost estimates, planning and scheduling, as well as contracts and procurement activities. The final group design project consists of a comprehensive written report and visual presentation using computer applications such as computer-aided design and electronic spreadsheets.

Prerequisites: Senior standing.

Sections

03851	CEE 008101	F+TR	Chudyk, Wayne A	0.5	
LAB A-NEW BEDFORD HARBOR					
04642	CEE 0081LA	G+	Hines, Eric	0.0	

**CEE 0093
SPECIAL TOPICS IN CEE**

A course that permits the student to do supervised study in a specialized field of civil and environmental engineering.

Prerequisites: Consent of instructor.

Sections

CATALDO RESEARCH					
04451	CEE 009301	ARR	Chapra, Stephen	1.0	
CATALDO RESEARCH					
04452	CEE 009302	ARR	Dorfmann, Luis	1.0	
CATALDO RESEARCH					
04453	CEE 009303	ARR	Durant, John L	1.0	
CATALDO RESEARCH					
04460	CEE 009304	ARR	Hines, Eric	1.0	
CATALDO RESEARCH					
04461	CEE 009305	ARR	Ramsburg, Andre	1.0	
CATALDO RESEARCH					
04462	CEE 009306	ARR	Swan, Christoph	1.0	

Civil and Environmental Engineering (beginning Summer 2011)

**CEE 0096
RESEARCH THESIS**

A course that permits the student to perform supervised research in a specialized field of civil and environmental engineering.

Prerequisites: Consent of instructor.

Sections

03870	CEE 009601	ARR	Baise, Laurie	0.0-1.0	Permission Of Instructor
03871	CEE 009602	ARR	Brenner, Brian	0.0-1.0	Permission Of Instructor
03872	CEE 009603	ARR	Chapra, Stephen	0.0-1.0	Permission Of Instructor
03873	CEE 009604	ARR	Chudyk, Wayne A	0.0-1.0	Permission Of Instructor
03874	CEE 009605	ARR	Desmarais, Anne	0.0-1.0	Permission Of Instructor
03875	CEE 009606	ARR	Dorfmann, Luis	0.0-1.0	Permission Of Instructor
03876	CEE 009607	ARR	Durant, John L	0.0-1.0	Permission Of Instructor
03877	CEE 009608	ARR	Edgers, Lewis	0.0-1.0	Permission Of Instructor
03878	CEE 009609	ARR	Gute, David M.	0.0-1.0	Permission Of Instructor
03879	CEE 009610	ARR	Hines, Eric	0.0-1.0	Permission Of Instructor
03880	CEE 009611	ARR	Islam, Shafiqul	0.0-1.0	Permission Of Instructor
03881	CEE 009613	ARR	Levine, Stephen	0.0-1.0	Permission Of Instructor
03882	CEE 009614	ARR	Minardi, Lee R	0.0-1.0	Permission Of Instructor
03883	CEE 009615	ARR	Moaveni, Babak	0.0-1.0	Permission Of Instructor
03884	CEE 009616	ARR	Pennell, Kurt	0.0-1.0	Permission Of Instructor
03885	CEE 009617	ARR	Ramsburg, Andre	0.0-1.0	Permission Of Instructor
03886	CEE 009618	ARR	Swan, Christoph	0.0-1.0	Permission Of Instructor
03887	CEE 009619	ARR	Vogel, Richard	0.0-1.0	Permission Of Instructor
04463	CEE 009620	ARR	Abriola, Linda	0.0-1.0	Permission Of Instructor

**CEE 0125
ADV REINFORCED CONCRETE**

Further study of concrete design with emphasis on columns with biaxial bending, flat slab theory and design, torsion, and the analysis and design of prestressed concrete structural members.

Prerequisites: CEE 25

Sections

04475	CEE 012501	N+	Brenner, Brian	1.0
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**CEE 0126
STRUCTURAL STABILITY**

Elastic buckling of columns, including the effects of initial crookedness and eccentricity. Large deflections of the Euler column. Tangent modulus and double modulus theory. Beam columns and the stability of frameworks and trusses. Torsional buckling of columns and lateral buckling of beams. Plate buckling with applications to flange buckling and web crippling of plate girders.

Prerequisites: ES 9 and CEE 22, or consent of instructor

Sections

04477	CEE 012601	M+	Chen, Po-shang	1.0
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**CEE 0128
STRUCTURAL MECHANICS**

(Cross-listed as ME 128.) An introduction to the theory of structural mechanics emphasizing the application of energy methods. Applications to equilibrium and stability of beams, struts, frameworks, rings and plates, and the dynamics of rigid and deformable bodies.

Prerequisites: ES 9.

Sections

03892	CEE 012801	G+	Dorfmann, Luis	1.0
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**CEE 0132
ENVIROMENTAL ENG PROCESS**

Study of the chemical, physical, and biological basis for unit processes commonly used in environmental engineering. Processes representing applications in all environmental media are examined. Emphasis is on rational design of unit processes, with attention to fundamental principles and experimental methods. With laboratory.

Prerequisites: CEE 30 and CEE 32, or consent of instructor

Sections

03894	CEE 013201	G+	Ramsburg, Andre	1.0	Also Register For Lab Cee 132-I
03895	CEE 0132LA	6+	Ramsburg, Andre	0.0	Mandatory Lab Also Reg For Cee 132

**CEE 0133
WASTEWATER PLANT DESIGN**

Design of facilities for municipal drinking water and wastewater treatment. Synthesis of unit processes and operations into integrated treatment plant. Emphasis on conventional treatment processes. Additional topics include liquid and solids streams, hydraulics, chemical feed and control systems, costs, and performance requirements. Design projects and field trips.

Prerequisites: CEE 32 or consent of instructor

Sections

04478	CEE 013301	I+	Chudyk, Wayne A	1.0
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**CEE 0138
HAZARD WASTE TREAT TECH**

(Cross-listed as CHBE138.) Hazardous waste treatment options based on physical, chemical, biological, and thermal processing technologies. Brief review of definitions and appropriate hazardous waste legislation. Introduction to pollution prevention. Traditional end-of-pipe treatment technologies. Applications to include solvent recovery, chemical fixation, land disposal, biodegradation, and special wastes. Incineration and associated environmental discharges constitute a major portion of course. Emerging technologies and evaluation of technical/economic process viability.

Prerequisites: Senior standing or consent of instructor.

Sections

03896	CEE 013801	10	Cohen, Larry	1.0
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**CEE 0143
SITE REMEDIATION TECH**

Conventional and innovative remediation technologies are examined under the remedial investigation/feasibility study (RI/FS) process. Knowledge of fundamental processes governing remedy implementation is integrated with an understanding of site characterization and applicable regulations to enable design of site-specific treatment systems for clean-up of the contaminated subsurface environment.

Prerequisites: CEE 12 and CEE 32, or consent of instructor

Sections

03897	CEE 014301	E+	Ramsburg, Andre	1.0
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**CEE 0145
COMP METHODS GEOT ENG**

Computer methods for processing subsurface information and for analyzing geotechnical/geoenvironmental engineering problems. Applications to be selected from settlement, deformation, bearing capacity, slope stability, pile driving, seepage, and soil amplification analyses. Finite element and finite difference applications.

Prerequisites: CEE 42

Sections

03898	CEE 014501	J+	Thompson, Eric	1.0
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Civil and Environmental Engineering (beginning Summer 2011)

CEE 0146

FOUNDATION ENGINEERING

Foundation engineering design, with emphasis on bearing capacity and settlement for shallow (footings) and deep (pile) foundations. Design of footings, rafts, piles, and piers subjected to axial and lateral loads; building code requirements for design; and evaluation and selection of foundation types and alternatives. Case studies.

Prerequisites: CEE 42.

Sections

03899 CEE 014601 H+ Edgers, Lewis 1.0

CEE 0158

OCCUPAT & ENVIRON HEALTH

(Cross-listed as ENV 158.) An examination of current topics in the area of occupational and environmental health, with particular emphasis on the types of materials that produce human health effects. Both clinical and epidemiologic data will be used to assess the public health importance of environmental pollutants and to evaluate the effectiveness of control strategies

Prerequisites: Senior standing or consent of instructor.

Sections

04480 CEE 015801 I+MW Gute, David M. 1.0

CEE 0164

EPIDEMIOLOGICAL METHODS

(Continuation of CEE154.) Topics include the principles of data analysis, including hypothesis testing and estimation, options in study design, internal validity, screening programs, registries, and genetics. Both theoretical and practical aspects of each topic will be discussed.

Prerequisites: CEE 154 or CEE 54

Sections

03900 CEE 016401 13 Woodin, Mark A 1.0
03901 CEE 0164MPH 13 Woodin, Mark A 2.0

CEE 0167

ENVIRONMENTAL TOXICOLOGY

(Cross-listed as ENV 167.) This course is designed to present the basic scientific principles of toxicology and the relationship of toxicology to health-based risk assessment and hazardous materials management. The toxic effects of hazardous substances on specific organ systems are described, as well as the mechanisms of action of some frequently encountered environmental contaminants. Specialized topics related to the field of toxicology are also discussed, including animal to human extrapolation of data, mutagenicity/carcinogenicity, and teratogenesis.

Prerequisites: Senior standing or consent of instructor.

Sections

03903 CEE 016701 K+ Desmarais, Anne 1.0

CEE 0185

LEGAL ISSUES OF ENGIN

This course examines the legal principles applicable to engineering design, construction, and manufacturing. Topics covered include introduction to the legal system, sources of law, contract law principles, professional liability risks, risk management practices, contract administration, differing site conditions claims, professional registration, and ethical issues.

Prerequisites: Junior standing or consent of instructor

Sections

03904 CEE 018501 A+ Staff 1.0

CEE 0194

SPECIAL TOPICS

Guided independent study of an approved topic at the graduate level. Credit as arranged.

Prerequisites: Consent of instructor.

Sections

GROUNDWATER CHEM & QUAL

03970 CEE 0194A K+ Garven, Grant 1.0

ATMOSPHERIC CHEMISTRY

04481 CEE 0194B D+ Durant, John L 1.0

STRUCT HEALTH MONITORING

04482 CEE 0194C I+ Moaveni, Babak 1.0

CEE 0201

LAND USE PLANNING II

(Cross-listed as UEP 201 and ENV 201.) An overview of land use planning methods, growth dynamics, and land development controls. Comparison of different approaches to land use planning and decision making. Impact of recent environmental legislation on land use. Techniques of mapping, site analysis, subdivision regulation, development controls, and fiscal incentives.

Prerequisites: Consent of instructor.

Sections

03974 CEE 020101 5 Witten, Jon 1.0

CEE 0202

ENV STATISTICS

(Cross-listed as ENV 202). Methods for analyzing environmental data, which is often censored, skewed, and correlated in space and time. Topics include exploratory data analysis, nonparametric methods, hypothesis testing, multivariate statistics, frequency analysis, uncertainty analysis, experimental design, and model building.

Prerequisites: ES 56 or equivalent

Sections

03976 CEE 020201 G+ Vogel, Richard 1.0

CEE 0214

WATER RESOURCE SYSTEMS

Mathematical models of water resource and environmental systems are presented in combination with optimization procedures, decision theory, and environmental applied statistics to generate an integrated approach to the planning, design, and management of complex water resources systems. Water resources systems applications are formulated as decision problems where an optimal solution is sought, yet cost, safety, environment, and technology appear as competing constraints. Applications include regional water quality management; siting treatment plants; reservoir system operations; and design, irrigation, flood control, and watershed planning.

Sections

03978 CEE 021401 ARR Huber-lee, Anne 1.0 F
1200pm-0230p
m

CEE 0244

SOIL PROPERTIES MEASURE

In-depth study of various laboratory and in-situ tests used to measure the shear strength, compressibility, and permeability of soils. Laboratory work includes index, consolidation, and triaxial tests. Field tests discussed include SPT, cone, vane, pressuremeter, and dilatometer. Discussion of methods used to process laboratory and field data. Report writing and hands-on laboratory testing.

Prerequisites: CEE 42.

Sections

03980 CEE 024401 ARR Staff 1.0 Mw
0430pm-0715p
m

CEE 0292

GRADUATE SEMINAR

Presentation of individual reports on basic topics to a seminar group for discussion and criticism. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Consent of instructor

Sections

03983 CEE 029201 J+T Vogel, Richard 1.0

Civil and Environmental Engineering (beginning Summer 2011)

CEE 0293

MASTER'S PROJECT

Guided individual study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Consent of instructor

Sections

03986	CEE 029301	ARR	Baise, Laurie	1.0-3.0	Permission Of Instructor
03988	CEE 029302	ARR	Brenner, Brian	1.0-3.0	Permission Of Instructor
03990	CEE 029303	ARR	Chapra, Stephen	1.0-3.0	Permission Of Instructor
03991	CEE 029304	ARR	Chudyk, Wayne A	1.0-3.0	Permission Of Instructor
03992	CEE 029305	ARR	Dorfmann, Luis	1.0-3.0	Permission Of Instructor
03993	CEE 029306	ARR	Durant, John L	1.0-3.0	Permission Of Instructor
03995	CEE 029307	ARR	Edgers, Lewis	1.0-3.0	Permission Of Instructor
03997	CEE 029308	ARR	Garven, Grant	1.0-3.0	Permission Of Instructor
03999	CEE 029309	ARR	Gute, David M.	1.0-3.0	Permission Of Instructor
04000	CEE 029310	ARR	Hines, Eric	1.0-3.0	Permission Of Instructor
04002	CEE 029311	ARR	Islam, Shafiqul	1.0-3.0	Permission Of Instructor
04004	CEE 029312	ARR	Levine, Stephen	1.0-3.0	Permission Of Instructor
04006	CEE 029313	ARR	Minardi, Lee R	1.0-3.0	Permission Of Instructor
04008	CEE 029314	ARR	Moaveni, Babak	1.0-3.0	Permission Of Instructor
04009	CEE 029315	ARR	Pennell, Kurt	1.0-3.0	Permission Of Instructor
03906	CEE 029316	ARR	Ramsburg, Andre	1.0-3.0	Permission Of Instructor
03907	CEE 029317	ARR	Sanayei, Masoud	1.0-3.0	Permission Of Instructor

CEE 0294

SPECIAL TOPICS

Guided individual study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Consent of instructor

Sections

ENVIRON SYSTEMS MODELING

04643	CEE 0294A	J+T	Chapra, Stephen	1.0	
03926	CEE 0294B	E+MW	Garven, Grant	1.0	Grad Standing: C-list Geo 0288

CEE 0296

MASTER'S THESIS

Guided research on a topic that has been approved as a suitable subject for a master's thesis. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Consent of instructor

Sections

03927	CEE 029601	ARR	Baise, Laurie	1.0-3.0	Permission Of Instructor
03931	CEE 029602	ARR	Brenner, Brian	1.0-3.0	Permission Of Instructor
03933	CEE 029603	ARR	Chapra, Stephen	1.0-3.0	Permission Of Instructor
03935	CEE 029604	ARR	Chudyk, Wayne A	1.0-3.0	Permission Of Instructor
03937	CEE 029605	ARR	Desmarais, Anne	1.0-3.0	Permission Of Instructor
03939	CEE 029606	ARR	Dorfmann, Luis	1.0-3.0	Permission Of Instructor
03940	CEE 029607	ARR	Durant, John L	1.0-3.0	Permission Of Instructor
03942	CEE 029608	ARR	Edgers, Lewis	1.0-3.0	Permission Of Instructor
03944	CEE 029609	ARR	Garven, Grant	1.0-3.0	Permission Of Instructor

03945	CEE 029610	ARR	Gute, David M.	1.0-3.0	Permission Of Instructor
03948	CEE 029611	ARR	Hines, Eric	1.0-3.0	Permission Of Instructor
03949	CEE 029612	ARR	Islam, Shafiqul	1.0-3.0	Permission Of Instructor
03952	CEE 029614	ARR	Levine, Stephen	1.0-3.0	Permission Of Instructor
03954	CEE 029615	ARR	Minardi, Lee R	1.0-3.0	Permission Of Instructor
03956	CEE 029616	ARR	Moaveni, Babak	1.0-3.0	Permission Of Instructor
03957	CEE 029617	ARR	Ramsburg, Andre	1.0-3.0	Permission Of Instructor
03960	CEE 029618	ARR	Sanayei, Masoud	1.0-3.0	Permission Of Instructor
03962	CEE 029619	ARR	Swan, Christoph	1.0-3.0	Permission Of Instructor
03964	CEE 029620	ARR	Vogel, Richard	1.0-3.0	Permission Of Instructor
03965	CEE 029621	ARR	Woodin, Mark A	1.0-3.0	Permission Of Instructor
03967	CEE 029622	ARR	Pennell, Kurt	1.0-3.0	Permission Of Instructor
04484	CEE 029623	ARR	Naumova, Elena	1.0-3.0	Permission Of Instructor
04485	CEE 029624	ARR	Mendoza-sanchez	1.0-3.0	Permission Of Instructor
04486	CEE 029625	ARR	Abriola, Linda	1.0-3.0	Permission Of Instructor

CEE 0298

DOCTORAL THESIS

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Consent of instructor

Sections

03968	CEE 029801		Baise, Laurie	1.0	Permission Of Instructor
03969	CEE 029802		Brenner, Brian	1.0	Permission Of Instructor
03971	CEE 029804		Chudyk, Wayne A	1.0	Permission Of Instructor
03972	CEE 029805		Desmarais, Anne	1.0	Permission Of Instructor
03973	CEE 029806		Dorfmann, Luis	1.0	Permission Of Instructor
03975	CEE 029807		Durant, John L	1.0	Permission Of Instructor
03977	CEE 029808		Edgers, Lewis	1.0	Permission Of Instructor
03979	CEE 029809		Garven, Grant	1.0	Permission Of Instructor
03981	CEE 029810		Gute, David M.	1.0	Permission Of Instructor
03982	CEE 029811		Hines, Eric	1.0	Permission Of Instructor
03984	CEE 029812		Islam, Shafiqul	1.0	Permission Of Instructor
03985	CEE 029814		Levine, Stephen	1.0	Permission Of Instructor
03987	CEE 029815		Minardi, Lee R	1.0	Permission Of Instructor
03989	CEE 029816		Moaveni, Babak	1.0	Permission Of Instructor
03994	CEE 029817		Ramsburg, Andre	1.0	Permission Of Instructor
03996	CEE 029818		Sanayei, Masoud	1.0	Permission Of Instructor
03998	CEE 029819		Swan, Christoph	1.0	Permission Of Instructor
04001	CEE 029820		Vogel, Richard	1.0	Permission Of Instructor
04003	CEE 029821		Woodin, Mark A	1.0	Permission Of Instructor
04005	CEE 029822	ARR	Pennell, Kurt	1.0	Permission Of Instructor
04007	CEE 029823	ARR	Chapra, Stephen	1.0	Permission Of Instructor
04487	CEE 029824	ARR	Naumova, Elena	1.0	Permission Of Instructor
04488	CEE 029825	ARR	Abriola, Linda	1.0	Permission Of Instructor

Civil and Environmental Engineering (beginning Summer 2011)

CEE 0299

MASTER OF ENGR PROJECT

A project under the guidance of a faculty adviser that addresses a substantial engineering problem, e.g., in engineering design, construction, management, operations, and/or planning. Students who are practicing engineers are encouraged to consider projects relevant to their own work. A written report and an oral presentation are required. One course credit.

Please see departmental website for specific details.

Sections

04010 CEE 029901 ARR Staff 1.0

CEE 0401

MASTER'S DEGREE CONT-PT

Part-time.

Please see departmental website for specific details.

Sections

04011 CEE 0401PT 0.0

CEE 0402

MASTER'S DEGREE CONT-FT

Full-time.

Please see departmental website for specific details.

Sections

04012 CEE 0402FT 0.0

CEE 0405

GRAD TEACHING ASSISTANT

Please see departmental website for specific details.

Sections

04013 CEE 0405TA 0.0

CEE 0406

GRAD RESEARCH ASSISTANT

Please see departmental website for specific details.

Sections

04014 CEE 0406RA 0.0

CEE 0501

DOCTORAL DEGREE CONT-PT

Part-time.

Please see departmental website for specific details.

Sections

04015 CEE 0501PT 0.0

CEE 0502

DOCTORAL DEGREE CONT-FT

Full-time.

Please see departmental website for specific details.

Sections

04016 CEE 0502FT 0.0

Classics

CLS 0027

CLASSICAL ARCHAEOLOGY

(Cross-listed as ARCH 27 and FAH 19.) The great sites and monuments of the ancient Mediterranean from preclassical times to the fall of the Roman Empire; their discovery and interpretation; their place in the reconstruction of the social, political, and artistic history of their time. Topics include the excavation and analysis of materials from Troy, Bronze Age Crete, and Mycenae; the archaeological evidence of the rise of Greece, and particularly Athens, in the first half of the first millennium B.C.; the misunderstood contribution of Hellenism in art, literature, and civilization; the Etruscan phenomenon; the essentially Roman qualities of the first four centuries of the Christian era; and the archaeological and documentary evidence for the transition from paganism to Christianity. Some attention to the disciplines of epigraphy and numismatics, as well as to the peripheral island civilizations of Malta, Sardinia, and Cyprus.

Sections

00921 CLS 002701 F+TR Harrington, Mat 1.0 C-1st Fah 19 & Arch 27

RECITATION

04214 CLS 0027RA FF Harrington, Mat 0.0
 00919 CLS 0027RB EF Harrington, Mat 0.0 C-list Arch 0027-rb & Fah 19-rb
 00920 CLS 0027RC NR Harrington, Mat 0.0 C-list Arch 0027-rc And Fah 19rc
 04621 CLS 0027RD JR Harrington, Mat 0.0 Crosslist Arch 27-rd & Fah 19-rd
 04624 CLS 0027RE LR Harrington, Mat 0.0 Crosslist Arch 27-re & Fah 19-re
 04627 CLS 0027RG CF Harrington, Mat 0.0

CLS 0031

CLASSICS OF GREECE

A study of major Greek literary works in translation. Authors include Homer, Aeschylus, Sophocles, Euripides, Aristophanes, Herodotus, Thucydides, and Plato.

Sections

00922 CLS 003101 G+ Halpern, Betsey 1.0

CLS 0032

CLASSICS OF ROME

A study of major literary works of ancient Rome in translation. Authors include Cicero, Caesar, Suetonius, Vergil, Ovid, Petronius, and Apuleius.

Sections

00923 CLS 003201 G+ Mahoney, Anne 1.0

CLS 0038

HISTORY ANCIENT ROME

(Cross-listed as HIST 51.) The history of ancient Rome, tracing Rome's rise from an insignificant Italian community to the ruler of the Mediterranean world, and ending with the transfer of the imperial capital to Constantinople in A.D. 330. Emphasis on the interaction of Rome with various foreign peoples, and examination of literary and documentary sources.

Sections

00927 CLS 003801 I+MW Hitchner, Bruce 1.0 C-list Hist 0051-01
 00924 CLS 0038RA AR Hitchner, Bruce 0.0 Crslist Hist 51-ra
 00925 CLS 0038RB LR Hitchner, Bruce 0.0 Crslist Hist 51-rb
 00926 CLS 0038RC FF Hitchner, Bruce 0.0 Crslist Hist 51-rc

CLS 0066

TROJAN WAR&POLITIC POWER

Examination of the myth of the Trojan War and the nature of power politics in Mycenaean culture through primary ancient literature that documents the Trojan War Cycle- epics, histories, tragedies, and lyric poetry. Readings include Aeschylus' Prometheus Bound, selections from Homer's Iliad and Odyssey, Euripides' Iphigenia at Aulis, Aeschylus' Agamemnon, and Sophocles' Philoctetes and Ajax, among other works.

Sections

00930 CLS 006601 D+ Halpern, Betsey 1.0

CLS 0084

SPECIAL TP:CLASSICAL LIT

Special Topics in Classical Literature--Exploration of special topics in Greek, Roman, Egyptian or other ancient literature in translation. Der Manuelian, Halpern, Reid.

Please see departmental website for specific details.

Sections

GREEK POLITICAL THOUGHT

04218 CLS 008401 C Berti, Monica 1.0

CLS 0086

SP TP:ANCIENT HISTORY

Exploration of special topics in Greek, Roman or Egyptian History. Der Manuelian, Hirsch, Hitchner.

Please see departmental website for specific details.

Sections

WOMEN OF BYZANTIUM

04630 CLS 008601 H+ Proctor, David 1.0 Crosslist As Hist 86 And Cls 186

CLS 0092

SP&INDP STUDIES:CLASSICS

Courses offered on an ad hoc basis and open to all undergraduate or guided individual study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Sections

GRECCO-ROMAN WLD IN FILM

04219 CLS 009201 ARR Crane, R. Grego 1.0 Meets R 3:00pm-5:30pm

CLS 0158

WOMEN GREEK MYTHOLOGY

Study of legendary and mythical female figures with emphasis on identifying characterizations and roles for these figures and assessment of how their representation enhances female stature, as it informs and supports cultural identity at various historical times. Exploration of how ancient authors and artists represent the female experience generally: matriarchy, misogyny, martyrdom, marriage, gender-specific cults, athletics, and election in various vocations.

Sections

00935 CLS 015801 E+MW Halpern, Betsey 1.0

CLS 0168

ROMAN ART & ARCHAEOLOGY

(Cross-listed as ARCH 168 and FAH 106.) The study of Imperial Rome and its provinces, with attention to the Hellenistic background and subsequent contributions to urban development, architecture, sculpture, or painting. Museum trips will be part of the course.

Prerequisites: CLS 27, or FAH 1, or permission of instructor.

Sections

04221 CLS 016801 M+ Harrington, Mat 1.0 Prereq: Cls 27/arch 27/fah 19 Or Consent

CLS 0170

INDOEUROPEAN LINGUISTICS

(Cross-listed as LING 170). Reconstruction of the Indo-European language family, including vocabulary, grammar, and poetics; principles of historical linguistics and the comparative method. Archaeology and history of the speakers of these languages. Survey of the family, with particular attention to development of Greek, Latin, English, and Sanskrit.

Prerequisites: GRK 007 or LAT 021, or consent.

Sections

04222 CLS 017001 C Mahoney, Anne 1.0 Prereq: Grk 7, Latin 3 Or Sanskrit 3

Classics

**CLS 0176
ANCIENT MEDICINE SEMINAR**

Topics in ancient medicine and its transmission. Topics may include aspects of surgery, gynecology, veterinary medicine, spiritual healing, and dentistry. Especially recommended for premedical, pre dental, preveterinary, and community-health program students.

Prerequisites: CLS 146 and permission of instructor.

Sections

00937	CLS 017601	E+MW	Phillips, Joann	1.0	High Demand Reg At Dept/perm Of Inst
00938	CLS 017602	ARR	Phillips, Joann	1.0	High Dem Reg At Dept/perm Of Instructor

**CLS 0183
ADV SP TP CLASSICAL LIT**

Advanced Special Topics in Classical Literature--Exploration of special topics in Greek, Roman, Egyptian or other ancient literature in translation. Der Manuelian, Halpern, Reid.

Please see departmental website for specific details.

Sections

GREEK RELIGION

04634	CLS 018301	D+	Beaulieu, Marie	1.0	Prereq: Cls 75 Or Consent
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**CLS 0186
SEMINAR ANCIENT HISTORY**

Seminar.

Please see departmental website for specific details.

Sections

WOMEN OF BYZANTIUM

04633	CLS 018601	H+	Proctor, David	1.0	Crosslist As Hist 86 And Cls 86
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**CLS 0296
THESIS**

Guided research on a topic that has been approved as a suitable subject for a master's thesis. Two courses.

Please see departmental website for specific details.

Sections

00952	CLS 029601	ARR	Hirsch, Steven	1.0	Permission Of Instructor
00953	CLS 029602	ARR	Hitchner, Bruce	1.0	Permission Of Instructor
00954	CLS 029603	ARR	Crane, R. Grego	1.0	Permission Of Instructor
00955	CLS 029604	ARR	Harrington, Mat	1.0	

**CLS 0401
MASTERS DEGREE CONT.**

Part -time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00959	CLS 0401PT		Proctor, David	0.0	Permission Of Instructor
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**CLS 0402
MASTERS DEGREE CONT.**

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00960	CLS 0402FT		Proctor, David	0.0	Permission Of Instructor
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Community Health

**CH 0002
HEALTH CARE IN AMERICA**

Problems and issues encountered in the planning, organization, and regulation of health services. Health policy formation and its implications for service delivery. Health care financing; health insurance; the changing role of physicians; technology; poverty and health; the mix of planning, regulation, and competitive strategies; and consumer organizations. Problems of implementation and administration; federal, state, and local interests.

Sections

00673	CH 000201	E+MW	Shei, Amie	1.0	Must Register For A Recitation
00663	CH 0002A	HR	Staff	0.0	
00664	CH 0002B	JR	Staff	0.0	
00665	CH 0002C	KW	Staff	0.0	
00666	CH 0002D	EF	Staff	0.0	
00667	CH 0002E	LR	Staff	0.0	
00668	CH 0002F	NR	Staff	0.0	
00669	CH 0002G	EF	Staff	0.0	
00670	CH 0002H	FF	Staff	0.0	
00671	CH 0002I	IW	Staff	0.0	
00672	CH 0002J	FF	Staff	0.0	

**CH 0030
INTERNSHIP SEMINAR**

Introduction to social science research methods as these are used in community health settings, including research design, data collection, data analysis strategies, and research ethics. Focus on how research, practice, and policy interrelate in creating evidenced-based community health interventions and on preparing students to be effective interns.

Sections

INQUIRY IN SOCIAL WORLD

04644	CH 003001	1	Sprague, Linda	1.0	Ch Majors Only
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**CH 0054
FUNDAMENTAL EPIDEMIOLOGY**

(Cross-listed as CEE 54 and ENV 54.) A single course which provides students an introduction to epidemiological techniques and analyses, including such topics as incidence and prevalence, age adjustment, and other techniques appropriate for the handling of confounders, the measurement of risk through the odds ratio and relative risk, and the interpretation of epidemiological results. The course will feature applications of epidemiological techniques to topics appropriate for public and community health applications such as those found in infectious disease control, screening for personal risk factors, and the conducting of disease cluster evaluations.

Sections

00674	CH 005401	H+	Woodin, Mark A	1.0	C-1st Ce 54, Env 54
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**CH 0099
SPECIAL TOPICS/COMM HLTH**

Introduction to selected contemporary problems in community health.

Please see departmental website for specific details.

Sections

ISSUES IN GLOBAL HEALTH

00677	CH 009901	G+	Kosinski, Karen	1.0	Ch Majors Only
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ISSUES IN GLOBAL HEALTH

00678	CH 009902	G+	Kosinski, Karen	1.0	For All Majors
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STATISTICS

04422	CH 009907	D+	Kosinski, Karen	1.0	Ch Majors Only Or Permission
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**CH 0107
SCI & PRACTICE MEDICINE**

The physiological basis of medicine from the perspective of a practicing physician. Basic concepts of pathophysiology, epidemiology, and clinical medicine are applied to the care of patients with coronary artery disease, cancer, HIV/AIDS, chronic pain, and other prevalent conditions. Alternatives to biomedicine.

Sections

00683	CH 010701	7+	Glickman-simon,	1.0	Ch Majors Only
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00684	CH 010702	7+	Glickman-simon,	1.0	Open To All Majors
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**CH 0180
INTERNSHIP**

Supervised fieldwork with a cooperating agency. Provides an opportunity for students to work in a health organization, agency, or community group and to become acquainted with related career possibilities. Placements, handled through the internship coordinator, can be chosen in the public or private sector, at the local, state, or federal level, and are usually in the Boston area. The internship must be completed in the spring or summer of the junior year or the fall of the senior year. Open only to community health majors.

Prerequisites: CH 1 and 2.

Sections

00687	CH 018001	J+T	Shei, Amie	1.0	High Demand Reg At Dept
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**CH 0182
COMM HEALTH EDUCATION**

Theoretical principles and training practices in specific community health education skills: interpersonal communication, group facilitation, peer education, dramatic arts, design of workshops and training programs.

Sections

00688	CH 018202	F+R	Irwin, Kevin	1.0	Fall 2011 Enroll Required;meets Thurs 12-1:15
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**CH 0186
SEM:INTR'NATL HEALTH POL**

(Cross-listed as SOC 186.) Health-related dilemmas faced by nations in the postwar period. Focus on how resource allocation, political institutions, and cultural myths about health and illnesses affect policy construction. Strategies to deal with infectious diseases compared with those utilized to combat mortality and morbidity from chronic illnesses. Case studies such as heart disease, infant mortality, the elderly, drug abuse, environmental regulation, and health care system problems of access, quality, and cost.

Sections

00691	CH 018601	ARR	Taylor, Rosemar	1.0	Co-1st-soc186,tues4:30-7, Senior Or Perm/reg@chp
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**CH 0188
SPECIAL TOPICS**

Selected contemporary problems in community health. Emphasis on group discussion and student reports and projects.

Please see departmental website for specific details.

Sections

AIDS

04667	CH 018806	5	Taylor, Rosemar	1.0	Soc. Origns, Global Consequences; j r/sr Or Perm
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INFL'NCING HLTH DECISION

04645	CH 018807	1	Shei, Amie	1.0	Ch Sr; Nudge/push/shove;influencing Hlth Decisions
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**CH 0189
SEMINAR HEALTH POLITICS**

Policy and politics of health and health care. How demographic shifts, existing policy commitments, current institutional structures, and technical innovations in medicine, among others, affect health policymaking. Specific topics vary but may include obesity, ethics, and health care finance.

Prerequisites: CH 2, junior standing, or permission of instructor.

Sections

US HEALTHCARE REFORM

04428	CH 018901	ARR	Irwin, Kevin	1.0	Promise/proble ms-us Healthcare
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Community Health

US HEALTHCARE REFORM

04428 CH 018901 Irwin, Kevin 1.0 Reform-sr Chp

**CH 0193
INDEPENDENT STUDY**

Guided individual study of an approved topic.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00693	CH 019301	ARR	Balbach, Edith	0.5	Arranged,reg W/perm Of Inst,edith Balbach At Ch Dept
00694	CH 019302		Sprague, Linda	0.5	Permission Of Instructor
00695	CH 019303	ARR	Balbach, Edith	0.5	High Demand Reg At Ch Dept
00697	CH 019305		Irwin, Kevin	0.5	Permission Of Instructor
00698	CH 019306	ARR	Balbach, Edith	0.5	

**CH 0197
SR THESIS COMM HEALTH**

Guided research on a topic that has been approved as a suitable subject for an honors thesis.

Please see departmental website for specific details.

Sections

00700	CH 019702		Balbach, Edith	1.0	High Demand Reg-comm Health-112 Packard Ave
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**CH 0198
SR THESIS COMM HEALTH**

Guided research on a topic that has been approved as a suitable subject for an honors thesis.

Please see departmental website for specific details.

Sections

00701	CH 019801		Balbach, Edith	1.0	High Demand Register At Comm Health Dept
00702	CH 019803		Irwin, Kevin	1.0	Permission Of Instructor
00703	CH 019804		Sprague, Linda	1.0	

**CH 0199
FIELDWORK**

Research in a health or health-care related setting.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00704	CH 019901		Sprague, Linda	1.0	Permission Of Instructor
00705	CH 019902		Balbach, Edith	1.0	Permission Of Instructor
00706	CH 019903		Irwin, Kevin	1.0	

Computer Science

COMP0010

VARIOUS TOPICS COMP SCI

Please see departmental website for detailed information. One Credit.

Sections

INTRO TO PRGMFOR BUSINE

00964 COMP001001 H+TR Stafford, Judit 1.0

INTRO TO PRG FOR BUSINES

00965 COMP001002 J+ Stafford, Judit 1.0

COMP0011

INTRO COMPUTER SCIENCE

Introductory computer science for students with some background in computer programming. Problem solving and structured design techniques are studied through frequent programming assignments. Provides foundation for further study.

Prerequisites: COMP 10, or basic ability to write simple computer programs using assignment, conditionals, loops, and function calls. The computer language previously studied by the student does not matter.

Sections

00966 COMP001101 I+MW Chang, Remco 1.0

Must Reg For Lab;scheduled During 1st Class

04554 COMP001102 K+ Chang, Remco 1.0

Must Reg For Lab;scheduled During 1st Class

COMP0015

DATA STRUCTURES

A second course in computer science. Data structures and algorithms are studied through major programming projects. Topics include linked lists, trees, graphs, dynamic storage allocation, and recursion.

Prerequisites: COMP 11 or permission of Instructor.

Sections

00968 COMP001501 E+MW Guyer, Samuel 1.0

Reg 1st Wk

00969 COMP001502 K+ Guyer, Samuel 1.0

Reg 1st Wk

COMP0022

DISCRETE MATHEMATICS

(Cross-Listed as MATH 22.) Sets, relations and functions, logic and methods of proof, combinatorics, graphs and digraphs.

Sections

00971 COMP002201 B 1.0

C-1st Math 22-01, math 11 Or Comp 11 Or Perm Of Inst

00972 COMP002202 D+ Cowen, Lenore J 1.0

C-1st Math 22-02

COMP0050

SPECIAL TOPICS

Content and prerequisites to be announced.

Please see departmental website for specific details.

Sections

INTRO TO GAME DEVELOPMEN

04223 COMP005001 I+ Chow, Ming 1.0

Prereq: Comp 15

COMP0105

PROGRAMMING LANGUAGES

Principles and application of computer programming languages. Emphasizes ideas and techniques most relevant to practitioners, but includes foundations crucial for intellectual rigor: abstract syntax, lambda calculus, type systems, dynamic semantics. Case studies, reinforced by programming exercises. Grounding sufficient to read professional literature.

Prerequisites: COMP 15 (Data Structures) and one semester of Discrete Mathematics (COMP 22 or MATH 22).

Sections

00975 COMP010501 G Ramsey, Norman 1.0

Prereq: Comp 15 And One Of Comp22 Or

00975 COMP010501 Ramsey, Norman 1.0 Math22

COMP0116

COMPUTER SYSTEM SECURITY

A systems perspective on host-based and network-based computer security. Current vulnerabilities and measures for protecting hosts and networks. Firewalls and intrusion detection systems. Principles illustrated through hands-on programming projects.

Prerequisites: COMP 40 and one course chosen from among COMP111, 114, and 115.

Sections

00976 COMP011601 M+ Chow, Ming 1.0 Comp 40 And One Of Comp 111, 114 Or 115

COMP0128

NUMERICAL LINEAR ALGEBRA

(Cross-listed as MATH 128.) The two basic computational problems of linear algebra: solution of linear systems and computation of eigenvalues and eigenvectors.

Prerequisites: MATH 46 and COMP 11.

Sections

04472 COMP012801 G+ Kilmer, Misha E 1.0

COMP0131

ARTIFICIAL INTELLIGENCE

History, theory, and computational methods of artificial intelligence. Basic concepts include representation of knowledge and computational methods for reasoning. One or two application areas will be studied, to be selected from expert systems, robotics, computer vision, natural language understanding, and planning.

Prerequisites: COMP 15 and MATH 22 (students not majoring in Computer Science may substitute COMP 14 for both COMP 15 and MATH 22)

Sections

00978 COMP013101 N+ Blumer, Anselm 1.0 Prereq:comp 15 & 22 Or Comp 14

COMP0150

SPECIAL TOPICS

Content and prerequisites to be announced. Over the past three years, special topics courses have been offered in parallel computing, graph drawing, computational geometry, multimedia data compression, cryptography and security, digital network communication, spoken language systems, system and network administration, and machine learning.

Please see departmental website for specific details.

Sections

ARTIFICIAL AGENTS & AUTO

00979 COMP015001 ARR Scheutz, Matthi 1.0 Prereqs: Permission Of Instructor

COMBINATORIAL OPTIMIZATI

04224 COMP015002 F+TR Blumer, Anselm 1.0 Prereq: (math 46 Or 54) And (comp 160)

INFO STORAGE AND MGMT

00980 COMP015003 L+ Couch, Alva 1.0 Prereq: Comp40 Or Ee14;comp111 Helpful

MUSIC APPS ON THE IPAD

00981 COMP015004 L+ Chow, Ming 1.0 Comp 40,musical Literacy, Music 10,11,64 Or Poi

THE ENGR METH OF TECH WR

00982 COMP015005 ARR Ramsey, Norman 0.5 At Least 2 Semesters Of Statistics, cres5 10 Helpful

EXPERI WITH FORMAL LANGU

00983 COMP015006 K+ Staff 1.0 Prerequisite: Comp 15 And

Computer Science

EXPERI WITH FORMAL LANGU

00983	COMP015006		Staff	1.0	Math 22
00984	COMP015007	I+MW	Staff	1.0	
00985	COMP015008	P+	Staff	1.0	

TBA

04225	COMP015009	13+	Staff	1.0	Tba
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**COMP0160
ALGORITHMS**

Introduction to the study of algorithms. Strategies such as divide-and-conquer, greedy methods, and dynamic programming. Graph algorithms, sorting, searching, integer arithmetic, hashing, and NP-complete problems.

Prerequisites: COMP 15 and MATH 22.

Sections

00986	COMP016001	D+	Khardon, Roni	1.0	Prereq: Comp 15 & 22
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**COMP0170
COMPUTATION THEORY**

Models of computation: Turing machines, pushdown automata, and finite automata. Grammars and formal languages, including context-free languages and regular sets. Important problems, including the halting problem and language equivalence theorems.

Prerequisites: COMP 15 and MATH 22.

Sections

00988	COMP017001	E+MW	Hescott, Benjam	1.0	Prereq: Comp 15 & 22
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**COMP0171
HUMAN COMPUTER INTERACTN**

Introduction to human-computer interaction, or how computers communicate with people. Methodology for designing and testing user interfaces, interaction styles (command line, menus, graphical user interfaces, virtual reality), interaction techniques (voice, gesture, eye movement), design guidelines, and user-interface management system software. Students will design a small user interface, program a prototype, and test the result for usability.

Prerequisites: COMP 14 or 15.

Sections

00989	COMP017101	H+TR	Jacob, Robert	1.0	Prereq: Comp 14 Or Comp 15
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**COMP0190
SENIOR DESIGN PROJECT**

Team analysis, planning, development, and maintenance of a software product, using software engineering principles, practices, and tools. This course fulfills the project requirement of the Bachelor of Science in Computer Science in the School of Engineering.

Prerequisites: COMP 180.

Sections

00990	COMP019001	11+	Stafford, Judit	1.0	For Seniors And Grad Students
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**COMP0193
DIRECTED STUDY**

Guided study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00991	COMP019301		Souvaine, Diane	0.0-2.0	
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**COMP0194
DIRECTED STUDY**

Guided study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

00994	COMP019401		Blumer, Anselm	0.0-1.0	Check Web For Complete Listing/perm Of Inst
00995	COMP019402		Brodley, Carla	0.0-1.0	Permission Of Instructor
00996	COMP019403		Couch, Alva	0.0-1.0	Permission Of Instructor
00997	COMP019404		Cowen, Lenore J	0.0-1.0	Permission Of Instructor
00998	COMP019405		Hassoun, Soha	0.0-1.0	Permission Of Instructor
00999	COMP019406		Jacob, Robert	0.0-1.0	Permission Of Instructor
01000	COMP019407		Khardon, Roni	0.0-1.0	Permission Of Instructor
01001	COMP019408		Ramsey, Norman	0.0-1.0	Permission Of Instructor
01002	COMP019409	ARR	Miller, Eric	0.0-1.0	Permission Of Instructor
01003	COMP019410		Guyer, Samuel	0.0-1.0	Permission Of Instructor
01004	COMP019411		Souvaine, Diane	0.0-1.0	Permission Of Instructor
01005	COMP019412		Slonim, Donna K	0.0-1.0	Permission Of Instructor
01006	COMP019413		Stafford, Judit	0.0-1.0	Permission Of Instructor
01007	COMP019414	ARR	Chang, Remco	0.0-1.0	Permission Of Instructor
01008	COMP019415		Hescott, Benjam	0.0-1.0	Permission Of Instructor
01009	COMP019416	TBA	Chow, Ming	0.0-1.0	
01010	COMP019417	TBA	Souvaine, Diane	0.0-1.0	
01011	COMP019418	TBA	Souvaine, Diane	0.0-1.0	
01012	COMP019419	ARR	Scheutz, Matthi	0.0-1.0	
01013	COMP019420	ARR	Su, Sara	0.0-1.0	Permission Of Instructor
01014	COMP019421	G	Ramsey, Norman	0.0-1.0	

**COMP0197
HONORS THESIS-COMP SCI**

Honors Thesis Computer Science.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01015	COMP019701		Hescott, Benjam	1.0	Permission Of Instructor
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**COMP0236
COMP LEARNING THEORY**

Probabilistic and adversarial models of machine learning. Development and analysis of machine learning principles and algorithms, their computational complexity, data complexity and convergence properties. Computational and cryptographic limitations on algorithms for machine learning.

Prerequisites: COMP 160, EE 104 or MATH 162, or permission of instructor.

Sections

04226	COMP023601	H+TR	Khardon, Roni	1.0	Comp160; Ee140 Or Math162; Comp 170 Recd Not Reqd
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Computer Science

COMP0294

MASTER'S PROJECT

Guided individual study of an approved topic suitable for a master's design project. Credit as arranged.

Please see departmental website for specific details.

Sections

01017	COMP029401	Blumer, Anselm	0.0-1.0	Permission Of Instructor
01018	COMP029402	Brodley, Carla	0.0-1.0	Permission Of Instructor
01019	COMP029403	Couch, Alva	0.0-1.0	Permission Of Instructor
01020	COMP029404	Cowen, Lenore J	0.0-1.0	Permission Of Instructor
01021	COMP029405	Hassoun, Soha	0.0-1.0	Permission Of Instructor
01022	COMP029406	Jacob, Robert	0.0-1.0	Permission Of Instructor
01023	COMP029407	Khardon, Roni	0.0-1.0	Permission Of Instructor
01024	COMP029408	Ramsey, Norman	0.0-1.0	Permission Of Instructor
01025	COMP029409	ARR Grinberg, Leopo	0.0-1.0	Permission Of Instructor
01026	COMP029410	Guyer, Samuel	0.0-1.0	Permission Of Instructor
01027	COMP029411	Souvaine, Diane	0.0-1.0	Permission Of Instructor
01028	COMP029412	Slonim, Donna K	0.0-1.0	Permission Of Instructor
01029	COMP029413	Stafford, Judit	0.0-1.0	Permission Of Instructor
01030	COMP029414	ARR Chang, Remco	0.0-1.0	Permission Of Instructor
01031	COMP029415	Hescott, Benjam	0.0-1.0	Permission Of Instructor
01032	COMP029416	Miller, Eric	0.0-1.0	Permission Of Instructor
01033	COMP029419	ARR Scheutz, Matthi	0.0-1.0	Permission Of Instructor

COMP0296

MASTERS THESIS

Guided individual study of an approved topic suitable for a master's design project. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01034	COMP029601	Stafford, Judit	1.0-2.0	Permission Of Instructor
01035	COMP029602		1.0-2.0	Permission Of Instructor
01036	COMP029603		1.0-2.0	Permission Of Instructor
01037	COMP029604		1.0-2.0	Permission Of Instructor
01038	COMP029610	Guyer, Samuel	1.0-2.0	Permission Of Instructor

COMP0298

GRADUATE RESEARCH

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Sections

01039	COMP029801	Blumer, Anselm	0.0-0.4	Permission Of Instructor
01040	COMP029802	Brodley, Carla	0.0-0.4	Permission Of Instructor
01041	COMP029803	Couch, Alva	0.0-0.4	Permission Of Instructor
01042	COMP029804	Cowen, Lenore J	0.0-0.4	Permission Of Instructor
01043	COMP029805	Hassoun, Soha	0.0-0.4	Permission Of Instructor
01044	COMP029806	Jacob, Robert	0.0-0.4	Permission Of Instructor
01045	COMP029807	Khardon, Roni	0.0-0.4	Permission Of Instructor

01046	COMP029808	Ramsey, Norman	0.0-0.4	
01047	COMP029809	Miller, Eric	0.0-0.4	Permission Of Instructor
01048	COMP029810	Guyer, Samuel	0.0-0.4	Permission Of Instructor
01049	COMP029811	Souvaine, Diane	0.0-0.4	Permission Of Instructor
01050	COMP029812	Slonim, Donna K	0.0-0.4	Permission Of Instructor
01051	COMP029813	Stafford, Judit	0.0-0.4	Permission Of Instructor

COMP0401

MASTERS DEGREE CONT.

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01054	COMP0401PT		0.0	Permission Of Instructor
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COMP0402

MASTERS DEGREE CONT.

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01055	COMP0402FT		0.0	Permission Of Instructor
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COMP0501

DOCTORAL DEGREE CONT.

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01058	COMP0501PT		0.0	Permission Of Instructor
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COMP0502

DOCTORAL DEGREE CONT

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01059	COMP0502FT		0.0	Permission Of Instructor
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Dance

DNC 0051

DNC MOV/CREATIVE PROCESS

Vigorous non-level movement, group processes, and creative problem-solving, culminating in ensemble jamming. World dance videos provide a context for nonstylized materials. One-half or one course credit.

Sections

01079	DNC 005101	F+TR	Trexler, Alice	1.0	Jax Dnc Lab
01080	DNC 005102	F+TR	Trexler, Alice	0.5-1.0	Meets Jax Dance Lab

DNC 0053

BEG MODERN DANCE

Development of alignment techniques, selected vocabulary, and short combinations with emphasis on musicality and group dynamics. Creative problem-solving and analysis of performance. No prerequisite. One-half course credit.

Sections

01081	DNC 005301	G+	Thigpen, Mila	0.5	Meets Jax Dnc Lab; Mw 10-11:45am
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DNC 0054

BG BALLET W/CREATIVE WRK

Introduction to basic ballet vocabulary through the practice of traditional barre and center work. Contextualization of ballet techniques in introductory compositional problems.

Sections

04639	DNC 005401	ARR	Mccusker, Danie	0.5	Meets Jax Dnc Lab; Mw 9-10:15am
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DNC 0056

INTER BALLET W/CREAT WRK

For students with prior ballet training, continuing with traditional barre and center work on an intermediate level. Contextualization of ballet with brief assignments involving history or aesthetics. creative applications of ballet techniques in varied compositional problems.

Sections

04209	DNC 005601	ARR	Mccusker, Danie	0.5	Jax Dnc Lab; Mw 10:30-11:45am
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DNC 0057

ADVANCED DANCE TECHINQUE

For students with substantial dance training in modern and/or ballet. Modern-oriented technique, combinations, and creative studies. Aesthetic context addressed in additional assignments. May be repeated. One-half course credit

Prerequisites: Permission of instructor.

Sections

01083	DNC 005701	L+	Mccusker, Danie	0.5-1.0	Meets Jax Dance Lab
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DNC 0060

INTERMED HIP HOP

Hip hop techniques with pop jazz influences and locking and popping. Cultural, aesthetic, or historical context included. For those with intermediate dance experience or DNC 59. One-half course credit.

Sections

01084	DNC 006001	M+	Swain, Daniel	0.5	Meets Jax Dance Lab, Prereq Hip Hop 1 Or Equiv
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DNC 0064

KATHAK DANCE-THEATRE

Practice of the ancient Indian tradition of dramatic storytelling through the skills of facial expression (abhinaya), hand gestures (mudras), song (sangeet), rhythm (tal), with footwork. Students dance traditional stories from the Ramayana and end the course by applying their skills to contemporary stories, poems, and/or songs. Cultural context of the form included. Appropriate for beginners and those who have taken DNC 63. One-half course credit.

Sections

01085	DNC 006401	H+	Hayden, Gretche	0.5	Meets Jax Dnc Lab Eq
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DNC 0066

INTERMEDIATE SALSA

The practice and ethnology of salsa through an Afro-Cuban lens in interaction with Latin/o culture. Dances taught include antecedent sacred dances, rumba, cha cha cha, and contemporary rueda de casino. Physical understanding of salsa through body movement, vocabulary, and styling as reinforced through the Afro-Cuban roots of salsa. One-half course credit.

Sections

04210	DNC 006601	I+	Thigpen, Mila	0.5	Female Section; Jax Dnc Lab
04211	DNC 006602	I+	Thigpen, Mila	0.5	Male Section; Jax Dnc Lab

DNC 0069

WEST AFRICAN DNC COMM

Dances of Senegal, Mali and Guinea involving domestic, agricultural, and hunting activities. The transcending of family identities in the development of community. Movements range from the highly aerobic to liting to those with challenging coordination of the body. Cultural context is a significant element of the course. All levels; no pre-requisite. One-half course credit.

Sections

01088	DNC 006901	K+	Coles, Gregory	0.5	Meets Jax Dnc Lab, No Prereq
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DNC 0092

SPECIAL TOPICS

Guided independent study of an approved topic or courses not yet in the curriculum. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01089	DNC 009201	ARR	Trexler, Alice	0.5	BEG JAZ
04212	DNC 009203	J+	Staff	0.5	Meets Jax Dnc Lab

DNC 0192

ADVANCED DANCE STUDIES

Guided independent work on papers, theses, and senior composition projects, or advanced special special topics courses. Half or full credit pending scope of each project or course.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

SENIOR DNC PROJECT

01094	DNC 019201	ARR	Mccusker, Danie	0.5	Pre-req Dnc 117 & Permission
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Drama

**DR 0004
MODERN DRAMA**

This discussion-based course examines dramatic literature and its theatrical performance from the explosion of "-isms" at the beginning of the twentieth century, through the innovations heralding the beginning of the twenty-first. Modern societies and ways of thinking have undergone radical transformations during this period, as have dramatic and theatrical expression. We will journey through this era of change through the close examination of approximately twenty plays, related critical readings, films of plays, class presentations, and lively discussions.

Sections

01096	DR 000401	D+	Montez, Noe	1.0	
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**DR 0005
PRODUCTION PREP CREW**

Participation in scenery construction, costume construction, electrics, or paint crew for departmental major productions. Minimum of 30 hours in one semester. Required for Drama major. No credit; pass/fail grading.

Prerequisites: Drama major or minor, and permission of instructor.

Sections

01097	DR 000501	ARR	Simpson, Ted	0.0	Arranged Times Or Contact The Instructor Or Depart
01098	DR 000502	ARR	Mulligan, John	0.0	Arranged Times Or Contact The Instructor Or Depart
01099	DR 000503	ARR	Pinette, Penney	0.0	Arranged Times Or Contact The Instructor Or Depart
01100	DR 000504	ARR	Girard, Linda R	0.0	Arranged Times Or Contact The Instructor Or Depart

**DR 0006
PRODUCTION RUN CREW**

Participation in backstage, costume, lighting, or sound crew during technical and dress rehearsals, and performances of a faculty -directed major production. Required for all drama majors. No credit; pass-fail grading

Prerequisites: Drama major and permission of instructor.

Sections

01101	DR 000601	ARR	Mulligan, John	0.0	Arranged Times Or Contact The Instructor Or Depart
01102	DR 000602	ARR	Pinette, Penney	0.0	Arranged Times Or Contact The Instructor Or Depart
01103	DR 000603	ARR	Simpson, Ted	0.0	Arranged Times Or Contact The Instructor Or Depart

**DR 0010
ACTING I:INTRO TO ACTING**

A basic course in acting aimed at enhancing self-confidence, oral expression, and creativity. Emphasis on concentration, motivation, and improvisation, and what it means to create a character and speak before an audience. Limit of eighteen students per section.

Sections

01105	DR 001001	ARR	Staff	1.0	Mon & Wed 9:30-11:45am; Instr Knox
01106	DR 001002	ARR	Staff	1.0	M & W 1:30pm-3:45pm
01107	DR 001003	ARR	Staff	1.0	Tue & Thu 12:00pm-2:45pm; Instr Coffey
01108	DR 001004	ARR	Staff	1.0	Tue & Thu 4:30 - 6:45 Pm; Instr Abel
04605	DR 001005	ARR	Staff	1.0	Mon & Wed 4:30-6:45; Instr Masters

**DR 0012
ACTING II**

Techniques and theories of acting for students with substantial prior acting experience in productions and/or classes. The role of the actor in relation to the play as a whole. Work on stage speech, movement, projection, characterization, and interpretation through various types of scenes.

Prerequisites: Permission of instructor based on brief interview and audition (through which first-year students may place out of DR 10).

Sections

01109	DR 001201	ARR	Thomas, Sheride	1.0	Tue & Thu 1:30-3:50; conse nt,performance Hanger
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**DR 0015
MAKEUP DESIGN & APPL**

Studio-based exploration of design and implementation of makeup for stage and film. Topics include makeup history, facial structure, color theory, products and their uses, the creation and use of prosthetics and wigs. Design projects focus on researching period based makeup, creating an accurate image to work from, and implementing those ideas on the actual human face.

Sections

01110	DR 001501	6+	Girard, Linda R	1.0	Meets In Balch Dress Rm
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**DR 0016
COSTUME TECHNOLOGY**

An exploration of materials, equipment, and methods of costume construction. Topics include period pattern research and development, construction techniques, fabric treatments, mask making, and costume prop design. Lab fee.

Sections

01111	DR 001601	8+	Pinette, Penney	1.0	Meeets In Costume Shop: R 1:20-4:20
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**DR 0020
STAGE ENGINEERING**

Introduction to standard theatrical techniques for the construction of scenery. Analysis of materials, fasteners, assembly practices, shop flow, and the development production drafting. Emphasis on interpretation of the scene designer's draftings and how to acheive a variety of stage looks and support of the design through the appropriate choice of materials and construction techniques.

Sections

04606	DR 002001	5+	Mulligan, John	1.0	Meets Scene Shop 66 Colby St
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**DR 0021
COMPUTER ASSISTED DESIGN**

A project-based examination of design principles, using 3-D software as a design environment. Design projects focus on the presentational elements of architectural, theatrical, and commercial design. Topics include modeling, texturing, lighting, and animation of 3-D designs.

Prerequisites: Costume, Lighting, or Set Design or any studio arts foundation or drawing course.

Sections

01113	DR 002101		Hirsig, Neal	1.0	Course Taught On-line Only
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**DR 0025
STAGE MANAGEMENT**

The study and analysis of the production of a play from the point of view of the stage manager, from auditions through the close of the show. Individual preparation of a complete stage manager's prompt script for one play with emphasis on critical and analytical thinking, problem solving, strong written and oral communication skills.

Sections

01114	DR 002501	TBA	Staff	1.0	Jaxl 2-b And Arena
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Drama

**DR 0027
PUBLIC SPEAKING**

Introductory course exploring the fundamentals of clear, confident, and effective communication in one-on-one and group settings. Development of tension management skills, good breathing habits, awareness of body language, and the ability to engage an audience through a series of practical exercises. Specific vocal work focuses on tone, variety of pitch, rate, volume, and articulation. Satisfies Humanities Requirement Fall 2006 and beyond.

Sections

01115 DR 002701 G+ Cooney, Deborah 1.0
01116 DR 002702 I+ Cooney, Deborah 1.0

**DR 0046
INT WOMEN FILM DIRECTORS**

Although female directors are still considered a minority in the international film industry, their contribution is significant. The films that we will screen are not Hollywood studio films and do not cater to predictable conventions and "happy endings." These films are diverse and unique, yet share such themes as female oppression, gender identification, women's roles in everyday life, and female empowerment. We will analyze the director's narrative and visual storytelling processes and choices, and how their diverse backgrounds influence their films, as well as discuss critics' reviews. Many of these provocative directors have been imprisoned, banned from their countries, are a major influence on their country's New Wave cinema, and/or stirred and international debate because of their films.

Sections

01118 DR 004601 ARR Kouguell, Susan 1.0 Thur 11:50-2:20 Pm

**DR 0048
AFRICAN AM THEATRE & FILM**

(Cross-listed as ANW 48). A broad historical survey of plays and films by African Americans. Comparison of cinematic and theatrical representations. Relation of African American aesthetics to broader American, European, and Pan-African forms. Historical evaluation and comparison of images created by African Americans and those established in the mainstream milieu. (May be taken at 100 level for graduate credit with consent.)

Sections

04607 DR 004801 F+ Ndounou, Monica 1.0 Tues & Thurs
Noon-1:15pm:
Xlist Ameri
194-05

**DR 0050
INTRO TO FILM STUDIES**

(Cross-listed as ILVS 50.) Introduction to fundamental methodologies for reading film. Overview of film studies with emphasis on film as a complex art form. Narrative as a formal system, film genres, style and its related techniques, critical approaches to film analysis, film history. Weekly screening of relevant films selected from both Hollywood and world cinemas.

Sections

01120 DR 005001 D+ Marquette, Scar 1.0 C-list Ilvs 50-01
01119 DR 0050R D+ Marquette, Scar 1.0 X List Ilvs 50

**DR 0072
HOLOCAUST STAGE & SCREEN**

Plays and films dealing with the Holocaust. From Nazi-era propaganda to contemporary reflections on genocide. Special emphasis on the ethics of Holocaust represented and the responsibilities of artists (and audiences) who engage the Holocaust story. Texts include such plays as Camp Comedy, Ghetto, Kindertransport, Good, Bent, Who Will Carry the World?, and Annulla, as well as critical and theoretical readings. Triumph of the Will, Night and Fog, The Architecture of Doom, Partisans of Vilna, The Boat is Full, My Mother's Courage, Schindler's List, Life is Beautiful and Shoah are among the feature films and documentaries considered. (Graduate Students should register for DR 172).

Sections

04542 DR 007201 H+TR Grossman, Barba 1.0

**DR 0080
PRACTICUM IN ACTING**

Rehearsal and performance of a role in a departmental major production, under the direction and instruction of a faculty member. Auditions are open to the Tufts community. Course registration occurs after casting, and all cast members are required to register (with the exception of designated small roles). May be repeated for credit, but only two one-half course credits of DR 80 and/or 81 can be used to satisfy the requirements for the drama major or minor. One-half course credit.

Prerequisites: Permission of instructor.

Sections

01122 DR 008001 ARR Grossman, Barba 0.5 Permission Of Instructor
01123 DR 008002 ARR Simpson, Ted 0.5 Permission Of Instructor

**DR 0081
PRACTICUM IN PRODUCTION**

Significant participation in the design, technical, or management aspects of production, with the supervision and instruction of the appropriate faculty member. Specific projects, assignments, and other work will be geared to the requirements of the particular production. All students with substantial responsibilities on a major production must register for this course. May be repeated for credit, but only two one-half course credits of DR 80 and/or 81 may be used to satisfy the requirements for the drama major or minor. One-half course credit.

Prerequisites: Permission of instructor.

Sections

01124 DR 008101 Girard, Linda R 0.5 Permission Of Instructor
01125 DR 008102 TBA Cless, Downing 0.5 Permission Of Instructor
01126 DR 008103 Simpson, Ted 0.5 Permission Of Instructor
01127 DR 008104 ARR Mulligan, John 0.5 Permission Of Instructor
01129 DR 008106 ARR Staff 0.5 Permission Of Instructor

**DR 0091
INDEPENDENT STUDY**

Please see departmental website for detailed information.

Sections

01130 DR 009101 Cless, Downing 1.0

**DR 0092
SPECIAL TOPICS**

Please see departmental website for specific details.

Sections

01131 DR 009204 1.0

**DR 0094
SPECIAL TOPICS**

Please see departmental website for detailed information.

Sections

01132 DR 009401 ARR Cless, Downing 0.5 Dr 12, Pass-fail Only, meets Arena

CABARET

01133 DR 009402 7+ Senelick, Laure 0.5 Admission To Course By Audition. Aud Prior To Reg

BUSINESS OF ACTING

01134 DR 009403 D+ Thomas, Sheride 0.5

PERFORM AMER; EXPL IDEN

04455 DR 009404 0 Ndounou, Monica 1.0 X List Ameri 194-06

Drama

**DR 0125
SCENE DESIGN**

Development of the skills of script analysis, rendering and model making, and process for the design of scenery.

Sections

01136 DR 012501 7+ Simpson, Ted 1.0 Meets Jackson 2-b And Arena

**DR 0135
ADVANCED SCENE DESIGN**

Exploration of the set design process through the production of a portfolio project. Students will develop it into a finished package that could be presented to a scene shop for bidding. The project can be chosen by the student (with instructor approval) or may be a project the student is actually mounting. Students will be expected to turn in a finished model, all draftings, and color information for their design.

Prerequisites: DR 125.

Sections

04609 DR 013501 6+ Simpson, Ted 1.0 Meets Jax 2b

**DR 0138
THEATER & SOCIETY II**

Theatre's development in the seventeenth, eighteenth, and nineteenth centuries from neoclassicism to romanticism and the birth of modern realism. Exploration of theatre that shocks, challenges, surprises and delights; theatre that satirizes established institutions, expresses new voices and attracts new audiences; theatre that harnesses the technology of the day to create pictures of passion and power on the proscenium stage; theatre that may be distant in time but still tells us stories about ourselves. Required of majors, open to nonmajors. May be taken before DR 137.

Prerequisites: DR 1 or permission of instructor.

Sections

01137 DR 013801 E+MW Baldyga, Nataly 1.0 Dr 1 Or 137

**DR 0148
AFRICAN AM THEATER&FILM**

(See DR 48 for course description.) Extra assignments and class meetings.

Sections

04456 DR 014801 F+TR Ndounou, Monica 1.0

**DR 0156
DIRECTING II**

The techniques and art of play direction, with emphasis on methods of actor coaching and rehearsal procedures. Rehearsal and presentation of several scenes of varying dramatic styles in association with some reading and writing assignments about specific problems in directing. Final project is the public performance of a one-act play.

Prerequisites: DR 10 or 12, and 155.

Sections

01138 DR 015601 ARR Cless, Downing 1.0 Fri10:30-1-arena, req: dr155 & Either Dr 12 Or 10

**DR 0172
HOLOCAUST STAGE & SCREEN**

Plays and films dealing with the Holocaust, From Nazi-era propaganda to contemporary reflections on genocide. Special emphasis on the ethics of Holocaust represented and the responsibilities of artists (and audiences) who engage the Holocaust story. Texts include such plays as Camp Comedy, Ghetto, Kindertransport, Good, Bent, Who Will Carry the World?, and Annulla, as well as critical and theoretical readings. Triumph of the Will, Night and Fog, The Architecture of Doom, Partisans of Vilna, The Boat is Full, My Mother's Courage, Schindler's List, Life is Beautiful and Shoah are among the feature films and documentaries considered.

Prerequisites: Graduate Standing

Sections

04457 DR 017201 H+TR Grossman, Barba 1.0 Graduate Students

**DR 0178
SCREENWRITING II**

This advanced screenwriting course will focus on completing Acts II and III of a featured-length screenplay in a workshop setting. The following screenwriting steps will be examined and discussed: Character development, story, plot, structure, dialogue, visuals, setups and payoffs, and genre. Films and published screenplays will also be analyzed.

Prerequisites: Screenwriting I or permission from professor.

Sections

01139 DR 017801 ARR Kouguell, Susan 1.0 Dr 77 & Perm Of Instruct/thu 9:10-11:40

**DR 0184
PRACTICUM IN DESIGN**

Practical application of scenic, lighting, or costume design to a faculty-directed major production. A student develops a design through an extensive tutorial process culminating in construction and use in a Balch Arena Theater production.

Prerequisites: DR 118, or 125, or 126, and permission of design faculty.

Sections

01140 DR 018401 Girard, Linda R 1.0 Dr 118 Or 125,126&conse nt Of Design Faculty

**DR 0186
PRACTICUM IN DIRECTING**

Direction of a mentored production (normally a full-length play) in the Balch Arena Theater. A student completes directorial research and creates production ideas and strategies through an extensive tutorial process with a member of the acting/directing faculty. One-half or one course credit.

Prerequisites: DR 156, a design course, and permission of instructor.

Sections

01141 DR 018601 ARR Cless, Downing 1.0 Dr 156,design Crs & Consent Of Instructor
01142 DR 018602 ARR Staff 1.0 Permission Of Instructor
04610 DR 018603 ARR Simpson, Ted 1.0

**DR 0187
TEACHING/DRAMA&IMPROV**

(Cross-listed as CD 187 and ED 187.) Review of the theory and practice of using drama in education. Aspects of dramatic expression, including dramatic play, improvisation, and story dramatization, as tools for extending the educational experiences of children and adolescents. Particularly suited for those interested in teaching preschool, elementary, middle, or secondary school.

Sections

04493 DR 018701 6+ Camara, Kathlee 1.0

**DR 0194
SPECIAL TOPICS**

Advanced projects for independent or group study in acting, directing, designing, and other arts of the theatre, as well as in the history of theatre and drama. Applicants for this course must give evidence of both interest in and capacity for doing specialized work in their chosen project. Credit as arranged.

Please see departmental website for specific details.

Sections

01144 DR 019404 7 1.0 C-1st Ce 143-06

Drama

**DR 0199
SENIOR HONORS THESIS**

Senior Honors Thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01145	DR 019901	ARR	Thomas, Sheride	0.0-3.0	Permission Of Instructor
01146	DR 019902		Thomas, Sheride	0.0-3.0	
01147	DR 019903		Thomas, Sheride	0.0-3.0	
04611	DR 019904	ARR	Ndounou, Monica	0.0	
04612	DR 019905	ARR	Simpson, Ted	0.0	

**DR 0236
IBSEN AND STRINBERG**

Please see department website for detailed course information.

Sections

04459	DR 023601	5+	Senelick, Laure	1.0	
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**DR 0294
SPECIAL TOPICS**

Guided individual study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

18 CENT EUROP DR & PERF					
01150	DR 029401	7+	Baldyga, Nataly	1.0	
CONT LATIN AM PERF					
01151	DR 029402	8+	Montez, Noe	1.0	
DRAMATURG					
01154	DR 029405	ARR	Simpson, Ted	1.0	Arranged Times Or Contact The Instructor Or Depart

**DR 0296
THESIS**

Guided research on a topic that has been approved as a suitable subject for a master's thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01155	DR 0296A	ARR	Senelick, Laure	0.0-3.0	Permission Of Instructor
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**DR 0297
GRADUATE RESEARCH**

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01156	DR 029701		Cless, Downing	0.0-3.0	Permission Of Instructor
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**DR 0298
GRADUATE RESEARCH**

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Sections

01157	DR 029801	ARR	Senelick, Laure	0.0-3.0	Permission Of Instructor
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**DR 0401
MASTERS DEGREE CONT.**

Part-time.

Please see departmental website for specific details.

Sections

01159	DR 0401PT	0.0	Permission Of Instructor
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**DR 0402
MASTERS DEGREE CONT.**

Full-time.

Please see departmental website for specific details.

Sections

01160	DR 0402FT	0.0	
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**DR 0501
DOCTORAL DEGREE CONT.**

Part-time.

Please see departmental website for specific details.

Sections

01163	DR 0501PT	0.0	
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**DR 0502
DOCTORAL DEGREE CONT.**

Full-time.

Please see departmental website for specific details.

Sections

01164	DR 0502FT	0.0	
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Economics

EC 0003 FINANCIAL ACCOUNTING

Theory of accounts, analysis, and recording of transactions; classifications of accounts; determination of revenue; interpretation and preparation of income statements and balance sheets. Cannot be counted toward an Economics major.

Sections

01165	EC 000301	J+	Murphy, Charles	1.0	No Ec Major Credit
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EC 0005 PRINCIPLES ECONOMICS

An introduction to the fundamentals of microeconomic and macroeconomic analysis. Topics covered in microeconomics include 1) how markets determine composition and pricing of outputs and inputs, and 2) the behavior of individual consumers and businesses in response to market forces. Topics covered in macroeconomics include 1) the determinants of economic growth, and 2) the effects of fiscal and monetary policy on unemployment, inflation, and capacity utilization.

Sections

01184	EC 000501	F+TR	Richards, Danie	1.0	Must Reg For Rct Ra-rr
01166	EC 0005RA	EF	Staff	0.0	Must Register For Ec 5
01167	EC 0005RB	NR	Staff	0.0	Must Register For Ec 5
01168	EC 0005RC	QR	Staff	0.0	Must Register For Ec 5
01169	EC 0005RD	FF	Staff	0.0	Must Register For Ec 5
01170	EC 0005RE	NR	Staff	0.0	Must Register For Ec 5
01171	EC 0005RF	QR	Staff	0.0	Must Register For Ec 5
01172	EC 0005RG	EF	Staff	0.0	Must Register For Ec 5
01173	EC 0005RH	NR	Staff	0.0	Must Register For Ec 5
01174	EC 0005RI	FF	Staff	0.0	Must Register For Ec 5
01175	EC 0005RJ	QT	Staff	0.0	Must Register For Ec 5
01176	EC 0005RK	MM	Staff	0.0	Must Register For Ec 5
01177	EC 0005RL	PM	Staff	0.0	Must Register For Ec 5
01178	EC 0005RM	CW	Staff	0.0	Must Register For Ec 5
01179	EC 0005RN	MW	Staff	0.0	Must Register For Ec 5
01180	EC 0005RO	PW	Staff	0.0	Must Register For Ec 5
01181	EC 0005RP	QR	Staff	0.0	Must Register For Ec 5
01182	EC 0005RQ	MW	Staff	0.0	Must Register For Ec 5
01183	EC 0005RR	PW	Staff	0.0	Must Register For Ec 5

EC 0006 BUSINESS LAW

Legal issues pertaining to business associations and operations. Topics may include business organizations, the law of contracts and agency, the Uniform Commercial Code, antitrust laws, and direct government regulation. Cannot be counted toward an economics major.

Sections

01185	EC 000601	K+	Green, Jack A.	1.0	No Ec Major Credit
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EC 0011 INTERMED MICROECON THRY

The theory of price determination and resource allocation in a private enterprise economy, analysis of consumer and producer choices, influences of market structure, and the interrelationship of product prices and factor incomes. Required of all economics majors.

Prerequisites: EC 5, MATH 5 or 11.

Sections

01186	EC 001101	K+	Akmehmet, Onur	1.0	Ec 5 & Math 5 Or 11
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01187	EC 001102	J+	Luallen, Jeremy	1.0	Ec 5 & Math 5 Or 11
01188	EC 001103	L+	Luallen, Jeremy	1.0	Ec 5 & Math 5 Or 11
01189	EC 001104	D+	Menegotto, Debo	1.0	Ec 5 & Math 5 Or 11
01190	EC 001105	F+TR	Gnedenko, Ekate	1.0	Ec 5 & Math 5 Or 11

EC 0012 INTERMED MACROECON THRY

Analysis of the determinants of national income, basic concepts and accounting, aggregate consumption and investment behavior, and implications for public policy. Required of all economics majors who have not completed EC 18 or 205. In no case may a student receive credit for both EC 18 and 12.

Prerequisites: EC 5, MATH 5 or 11.

Sections

01191	EC 001201	E+MW	Chiang, Arthur	1.0	Ec 5 & Math 5 Or 11
01192	EC 001202	I+MW	Chiang, Arthur	1.0	Ec 5 & Math 5 Or 11
01193	EC 001203	G+	Fusillo, Micahe	1.0	Ec 5 & Math 5 Or 11
01194	EC 001204	F+TR	Switala, Andre	1.0	Ec 5 And Math 5 Or 11

EC 0013 STATISTICS

An introduction to basic statistical techniques that are used in economic analysis. Major topics include probability, discrete random variables, continuous random variables, sampling distributions, estimation, and hypothesis testing. The course will conclude with some theory and applications of the linear regression model. Required of all economics majors.

Prerequisites: EC 5, MATH 5 and 6, or 11.

Sections

01201	EC 001301	M+	Swingle, Joseph	1.0	Ec 5 & Math 5&6 Or 11/reg For Rct 1a-1f
01195	EC 0013RA	AR	Staff	0.0	Must Register For Ec 13
01196	EC 0013RB	FF	Staff	0.0	Must Register For Ec 13
01197	EC 0013RC	NR	Staff	0.0	Must Register For Ec 13
01198	EC 0013RD	CF	Staff	0.0	Must Register For Ec 13
01199	EC 0013RE	EF	Staff	0.0	Must Register For Ec 13
01200	EC 0013RF	GF	Staff	0.0	Must Register For Ec 13

EC 0015 BASIC ECONOMETRICS

Introduction to common techniques and applications of econometrics. Students will gain an intuitive understanding of basic econometric techniques and will learn to apply those techniques to new problems. Data analysis with an econometrics software package and an empirical project using econometric methods. EC 15 and 107 may not both be taken for credit.

Prerequisites: EC 13.

Sections

01202	EC 001501	A	Downes, Thomas	1.0	
01203	EC 001502	C	Garman, David	1.0	Ec 13 Or Equivalent
01204	EC 001503	J+	Switala, Andre	1.0	Ec 13 Or Equivalent
01205	EC 001504	L+	Switala, Andre	1.0	Ec 13 Or Equivalent

Economics

EC 0016

QUANT MICROEC THEORY

The theory of price determination and resource allocation in a private enterprise economy; analysis of consumer and producer choices, influences of market structure, and the interrelationship of product prices and factor incomes with mathematical illustrations. Required for all quantitative economics majors who have not completed EC 203.

Prerequisites: EC 011, MATH 012.

Sections

01206	EC 001601	F+TR	Staff	1.0	Ec 11 And Math 11
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EC 0018

QUANT INTER MACROEC THRY

Analysis of the determinants of national income, basic concepts and accounting, aggregate consumption and investment behavior, and implications for public policy, with mathematical illustrations. Required for all quantitative economics majors who have not completed EC 205. In no case may a student receive credit for both EC 18 and 12.

Prerequisites: EC 11, MATH 11.

Sections

01208	EC 001801	E+MW	Ioannides, Yann	1.0	Ec 11 & Math 11
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EC 0019

REVIEW QUANT MACRO THRY

Review of EC 18 for Quantitative Economics majors who have taken EC 12. ½ credit.

Prerequisites: EC 12, MATH 11, and permission of instructor.

Sections

01209	EC 001901	E+MW	Ioannides, Yann	0.5	Permission Of Instructor
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EC 0024

GAME THEORY

Introduction to game theory and how it is used to understand strategic interactions among individuals, firms, governments, and countries. Topics include credible threats, signaling, principal-agent problems, auctions, arbitration, voting, implications of asymmetric and incomplete information and collusion. Not open to students who have taken or are currently taking EC 119 or its equivalent.

Prerequisites: EC 5, and MATH 5 or 6 or 11.

Sections

04065	EC 002401	J+	Wolf, Gick	1.0	Prereq: Ec 5
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EC 0030

ENVIRONMENTAL ECONOMICS

(Cross-listed as ENV 30.) An examination of the uses and limitations of economic analysis in dealing with many of the environmental concerns of our society. Public policies concerning the environment will be evaluated as to their ability to meet certain economic criteria.

Prerequisites: EC 1 (Micro) or 5.

Sections

01210	EC 003001	J+	Jack, Brooke	1.0	Ec 5, C-list Env 30-01
04066	EC 003002	D+	Gnedenko, Ekate	1.0	Prereq: Ec 5; C-list Env 30

EC 0035

ECONOMIC DEVELOPMENT

Problems in the growth of underdeveloped economies. Emphasis on quantitative models of economic growth at low levels of income and on the testing of various hypotheses proposed to explain underdevelopment. Consequences of market structures, population growth, externalities, institutions, and political factors for economic development.

Prerequisites: EC 1 and 2, or 5.

Sections

01211	EC 003501	E+MW	Akmehmet, Onur	1.0	Ec 5
01212	EC 003502	G+	Akmehmet, Onur	1.0	Prereq: Ec 5

EC 0048

HEALTH ECONOMICS

An examination of major topics in the economics of health and health care, both in the United States and abroad, using the basic theoretical and empirical tools of economics. Covers the medical and nonmedical determinants of health, markets for medical care services and health insurance, and proposed ideas for health care reform. Special topics include AIDS, aging, and obesity.

Prerequisites: EC 1 or 5.

Sections

01213	EC 004801	1+	Bentkover, Judi	1.0	Prereq: Ec 5
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EC 0060

INTERNATIONAL ECON

Analysis of the economic effects of trade among nations. Determination and stabilization of exchange rates; regulation of commerce through various commercial policies; the United States' balance of payments; the impact of international trade on price, incomes, and employment in the participating nations; and international agencies and agreements affecting world trade. Custom unions and common markets, world liquidity problems. Not open to students who have taken or are currently taking EC 161 or its equivalent.

Prerequisites: EC 5.

Sections

01220	EC 006001	F+TR	Wagner, Rodrigo	1.0	Ec 5/must Reg For Rct Ec 60 A,b,c,d
01214	EC 0060RA	EF	Staff	0.0	Must Register For Ec 60
01215	EC 0060RB	FF	Staff	0.0	Must Register For Ec 60
01216	EC 0060RC	GF	Staff	0.0	Must Register For Ec 60
01217	EC 0060RD	CW	Staff	0.0	Must Register For Ec 60
01218	EC 0060RE	MW	Staff	0.0	Register For Ec 60
01219	EC 0060RF	GF	Staff	0.0	Register For Ec 60

EC 0062

ECON INTERN'L MIGRATION

Exploration how economists tackle the questions: Who migrates? Who stays and who returns? Why? Which migrants send money home? What impact do those remittances have on economic development? How can economics help us understand refugee flows and illegal migration? Why do immigrants cluster in neighborhoods like Chinatown or the North End of Boston? Is migration a substitute for or a complement to international trade? The course first develops economic tools for understanding both individuals' decision to migrate across international borders and the resulting migrant flows. It then explores the economic impact and policy implications of migration for home (migrant sending) and host (migrant receiving) countries' economies.

Prerequisites: EC 1, 5, or permission of instructor.

Sections

01221	EC 006201	E+MW	Hardman, Anna	1.0	Ec 5 Or Consent
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EC 0074

ENTREPRENEURSHIP

Analysis of the economic role and importance of the entrepreneur. The entrepreneur as market-maker and leader. The entrepreneurial role in strategic decision making, organizational design, and management development. Financial planning and venture capital.

Prerequisites: EC 1 (Micro) or 5.

Sections

01222	EC 007401	F+TR	Norman, George	1.0	Ec 5
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Economics

EC 0087

ECON OF BRIT IND REV

(Cross-listed as HIST 162). English property rights, the demographic revolution, the agricultural revolution, the Poor Law, labor market integration, standard of living, domestic and international capital flows, foreign trade, Empire trade (India, Ireland, West Indies), and the relative retardation of France and Holland.

Prerequisites: EC 5.

Sections

01223 EC 008701 J+ Rothenberg, Win 1.0 Ec 5, C-1st Hist 162-01

EC 0107

ECONOMETRIC ANALYSIS

The study of multiple regression and its applications in economics. The course will focus on the appropriateness of the techniques when the independent variables are measured with error, when the disturbance terms exhibit autocorrelation, or when the independent variables are correlated with the disturbances. The course will conclude with an introduction to simultaneous equation techniques. EC 15 and 107 may not both be taken for credit.

Prerequisites: EC 13 or equivalent, and MATH 12. MATH 46 or 54 recommended as prerequisite or corequisite.

Sections

01226 EC 010701 E+MW Zabel, Jeffrey 1.0 Prereq: Ec 13 Or Eq And Math 12, Math 46 Recommended

EC 0116

ECON GROWTH:THRY&APPLICA

Theory and experience of economic growth in developed and underdeveloped economies. Models of exogenous growth; recent studies employing techniques of dynamic analysis that emphasize the endogenous nature of growth and the role of factors such as innovation and learning by doing. Applications to the areas of macroeconomics, dynamic trade theory, and economic development. Not open to students who have taken or are currently taking EC 118 or its equivalent.

Prerequisites: EC 11

Sections

04068 EC 011601 D+ Staff 1.0 Prereq: Ec 11

EC 0118

QUANT ECON GROWTH

A rigorous treatment of various theoretical models of economic growth while emphasizing the link between theory and empirics. Are poor countries catching up with rich countries in terms of per capita income? Which policies promote economic development and which do not? Topics include capital accumulation models of growth, the role of technology in sustaining long-run growth, linear regression approaches to uncovering important growth determinants, issues in robustness and specification uncertainty, and the influence of "fundamentals" like institutions, geography, population diversity, and culture on development.

Prerequisites: EC 13 and 18.

Sections

01228 EC 011801 K+ Ioannides, Yann 1.0 Ec 13 & Ec 18

EC 0119

QUANT GAMES & INFO

The strategic role of information, or "who knows what and when they know it", underlies many observed economic phenomena. This course applies game theory to understanding how revealing and concealing information can be the basis of strategic behavior in economics. It will cover games of perfect information, imperfect information, and incomplete information, and develop the corresponding solution for each type of game. Examples will include games of asymmetric information that have been applied in economics to a wide range of fields including industrial organization, finance, labor, and development economics. No previous course in game theory is required.

Prerequisites: EC 13 and 17; or EC 201 and 203.

Sections

01229 EC 011901 H+ Menegotto, Debo 1.0 Ec 13 & 16 Or 201 Or 203

EC 0124

STATE/LOCAL PUB FINANCE

Issues in the provision and financing of public services by state and local governments. Provision of local public services, their adequacy, alternative models of local government decision making, optimal size of local governments, merits of the property tax, who really pays the property tax, alternative revenue sources, suburbs vs. central cities, metropolitan governance, the fiscal crisis of large cities, fiscal federalism, school finance reform, and the impact of tax and expenditure limitation.

Prerequisites: EC 11 or permission of instructor.

Sections

01230 EC 012401 E+MW Downes, Thomas 1.0 Ec 11 And Ec 13

EC 0130

TOPICS IN ENVIRON ECON

Research seminar for students who wish to pursue environmental economics beyond the level of EC 30. Topics may include the design and administration of environmental excise taxes, the theory and practice of benefit-cost analysis, the economics of renewable and exhaustible resources, and the sustainability of economic growth.

Prerequisites: EC 11 and 30, or permission of instructor.

Sections

01231 EC 013001 F+TR Jack, Brooke 1.0 Ec 11 & Ec 30, Or Consent

EC 0136

TOPICS IN ECONOMIC DEVEL

Selected major current problems in various developing countries. Students will be asked to utilize and extend the theoretical insights from Economics 35 by applying them in specific cases. Topics will include problems in energy, agriculture, balance of payments, and industrialization. Elements of benefit-cost analysis will also be covered.

Prerequisites: EC 11 and 35; EC 13 suggested.

Sections

01232 EC 013601 E+MW Dapice, David O 1.0 Ec 11 & Ec 35, Ec 13 Suggested

EC 0150

FINANCIAL ECONOMICS

Application of economic theory and statistics to the analyses of corporate investment and financing decisions and the equilibrium prices of financial instruments. Topics include the time value of money, structure of interest rates, evaluation of investment projects, the advantage of portfolio diversification, asset pricing models, corporate capital structure, dividend policy and the valuation of options and futures. Not open to students who have taken or are currently taking EC 159 or its equivalent.

Prerequisites: EC 011, 012, and 013.

Sections

01234 EC 015001 K+ Mchugh, Christo 1.0 Ec 11,12,& 13

EC 0151

MONETARY ECONOMICS

Overview of the U.S. financial system with an emphasis on basic monetary theory, the structure and regulatory environment of financial institutions, the conduct of monetary policy, and international linkages.

Prerequisites: EC 12.

Sections

01235 EC 015101 M+ Mchugh, Christo 1.0 Ec 11, 12 & 13

Economics

**EC 0154
METHODS IN ECON&FINANCE**

New and recent developments in uncertainty methods applied to economic theory and financial decision making under symmetric and asymmetric information. Topics include the structure of financial markets, insurance, risk-sharing, and asset pricing in static and dynamic economic contexts.

Prerequisites: EC 11 and 13.

Sections

01236	EC 015401	I+MW	Bianconi, Marce	1.0	Prereq: Ec 11 And 13
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**EC 0161
INTERNATIONAL TRADE**

Historical development of the theory of international specialization and exchange. Subsequent topics include trade and imperfect competition, trade policy, and economic warfare. International factor movements, international trading system, and policy tools of trade intervention and their welfare implications.

Prerequisites: EC 11.

Sections

01237	EC 016101	I+MW	Fusillo, Micahe	1.0	Ec 11
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**EC 0162
INTERNATIONAL FINANCE**

Macroeconomic and monetary aspects of international economics. Topics include foreign exchange markets, income and price determination under flexible and fixed exchange rates, theories of the exchange rate and of the balance of payments, stabilization policy in the international economy, international capital movements, and the institutional arrangements of the international monetary system. Not open to students who have taken or are currently taking EC 169 or its equivalent.

Prerequisites: EC 12

Sections

01239	EC 016201	K+	Fey, Richard	1.0	Ec 12
01240	EC 016202	G+	Fey, Richard	1.0	Ec 12

**EC 0169
QUANTITAT INT'L FINANCE**

Quantitative analysis of theoretical and empirical models of international finance. Topics include balance of payments and exchange rate determination models, foreign exchange market efficiency, exchange rate regimes, international capital flows, and emerging market financial crisis.

Prerequisites: EC 18 or 205; EC 105 recommended.

Sections

04069	EC 016901	D+	Wagner, Rodrigo	1.0	Prereq: Ec 18 Or Ec 205
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**EC 0176
MULTINATIONAL ENTERPRISE**

The turn of the 21st century has seen a dramatic increase in foreign direct investment, with investment flows substantially outstripping export and import flows in most years for most developed countries. This has had an equally dramatic impact on the means by which companies conduct their international business. This advanced seminar course develops a systematic analysis of the motives for foreign direct investment, which creates multinational enterprises. The theoretical part of the course builds a series of models that shed light on the primary forces that motivate firms to switch from exporting to multinational production. Also investigated are some of the potential welfare impacts of the decision to become a multinational enterprise, on both host and home countries, and some of the empirical issues that arise when we try to explain patterns of international production and attempt to quantify the effects of multinationals on home and host nations.

Prerequisites: EC 11 and 13. A previous game theory and/or international economics course would also be useful.

Sections

01241	EC 017601	J+	Norman, George	1.0	Ec 11 & Ec 13
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**EC 0190
INDEPENDENT STUDY**

Independent reading or research on special topics in economics. Approval and supervision of a faculty member is required. Credit as arranged.

Please see departmental website for specific details:
<http://ase.tufts.edu/econ/>

Prerequisites: EC 11, 12, or 13.

Sections

01242	EC 019001	ARR	Kutsoati, Edwar	1.0
01243	EC 019002	ARR	Garman, David	1.0
01244	EC 019003		Hardman, Anna	1.0
01245	EC 019020	ARR	Rothenberg, Win	1.0

**EC 0191
INTERMED SELECTED TOPICS**

Lectures on intermediate topics in economics. Topics to be announced. Credit as arranged.

Please see departmental website for specific details:
<http://ase.tufts.edu/econ/>

Prerequisites: EC 11, 12, or 13.

Sections

QUANT FINANCIAL ECONOMIC

01246	EC 019101	E+MW	Kutsoati, Edwar	1.0	Prereqs: Ec 16 Or 18
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CITIES IN THE DEVELOPING

01247	EC 019102	K+	Hardman, Anna	1.0	Prereqs: Ec 11
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**EC 0192
ADVANCED SEMINAR ECON**

Seminar course for students with an intermediate economics background. Topics vary from semester to semester. Please see departmental website for current offerings.

Prerequisites: EC 11, or 12, or 13, or 15 or consent.

Sections

ECON OF ENTREPRSHIP

04070	EC 019201	H+TR	Wagner, Rodrigo	1.0	Prereq: Ec 18 And 13
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**EC 0196
SENIOR HONORS THESIS**

Thesis course for thesis honors candidates; see Thesis Honors Program for details. Open to seniors. Normally two courses.

Please see departmental website for specific details:
<http://ase.tufts.edu/econ/>

Prerequisites: Permission of instructor.

Sections

01268	EC 019601	ARR	Bianconi, Marce	1.0	Reg For Ec 197 & Complete One-on-one Form To Reg
01269	EC 019602	ARR	Brown, Drusilla	1.0	Permission Of Instructor
01270	EC 019603	ARR	Metcalf, Gilber	1.0	Permission Of Instructor
01271	EC 019604	ARR	Richards, Danie	1.0	Permission Of Instructor
01272	EC 019605	ARR	Garman, David	1.0	Permission Of Instructor
01273	EC 019606	ARR	Hardman, Anna	1.0	Permission Of Instructor
01274	EC 019607	ARR	Mchugh, Christo	1.0	Permission Of Instructor
01275	EC 019608	ARR	Ioannides, Yann	1.0	Permission Of Instructor
01276	EC 019609	ARR	Downes, Thomas	1.0	Permission Of Instructor
01277	EC 019610	ARR	Spolaore, Enric	1.0	Permission Of Instructor
01278	EC 019611	ARR	Zabel, Jeffrey	1.0	
01279	EC 019612	ARR	Kutsoati, Edwar	1.0	

Economics

01281	EC 019614	ARR	Norman, George	1.0
01283	EC 019616	ARR	Dehejia, Rajeev	1.0
01284	EC 019617	ARR	Mcmillan, Marga	1.0
01285	EC 019626	ARR	Tang, Heiwai	1.0

EC 0197

SR THESIS RESEARCH SEM

A year-long, one-credit, pass-fail course designed to help seniors writing senior theses or honors theses plan and execute their research and write their thesis. Faculty members and past thesis writers will meet with the seminar and discuss various aspects of the research process. Students in the seminar are also expected to present their work and provide feedback to their fellow seminar participants. ½ credit course per semester.

Sections

01286	EC 019701	IM	Zabel, Jeffrey	0.5	.5 Credit P/f Only; reg For Ed 195 Or 198
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EC 0198

SENIOR THESIS

Designed for students who want to write a senior thesis, but do not want to be a part of the Thesis Honors Program. Approval of a faculty member is required. Variable credit.

Please see departmental website for specific details:
<http://ase.tufts.edu/econ/>

Sections

01287	EC 019801	ARR	Richards, Danie	1.0	Complete One-on-one Crs Form At Ec Dept To Reg
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EC 0202

ECONOMETRICS

Parameter estimation techniques for linear single equation and simultaneous equations and their application to the study of economic behavior. Spring.

Sections

01288	EC 020201	H+	Garman, David	1.0	Ec 201 Or Permission Of Instructor
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EC 0204

MICROECONOMIC THEORY II

Advanced topics in microeconomic theory, such as equilibrium analysis and introduction to welfare economics. Spring.

Sections

01289	EC 020401	I+	Kutsoati, Edwar	1.0	Ec 203 Or Permission Of Instructor
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EC 0206

MACROECONOMIC THEORY II

Advanced topics in macroeconomic theory, such as business cycles, growth models, and conditions for stability.

Prerequisites: Permission of instructor.

Sections

01290	EC 020601	E+MW	Bianconi, Marce	1.0	Ec 205 Or Perm Of Inst
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EC 0292

ADVANCED GRAD SEMINAR

Please see departmental website for detailed course description.

Sections

01291	EC 029201	ARR	Zabel, Jeffrey	0.5	Permission Of Instructor
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EC 0293

SPECIAL TOPICS

Guided individual study of an approved topic. Variable credit.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01294	EC 029303	ARR	Zabel, Jeffrey	0.0-3.0
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EC 0295

THESIS

Guided research on a topic that has been approved as a suitable subject for a master's thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01295	EC 029501	ARR	Staff	0.0-3.0	Permission Of Instructor
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EC 0296

THESIS

Guided research on a topic that has been approved as a suitable subject for a master's thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01296	EC 029601	ARR	Bianconi, Marce	1.0
01297	EC 029602	ARR	Ioannides, Yann	1.0
01298	EC 029603	ARR	Dapice, David O	1.0
01299	EC 029604	ARR	Kutsoati, Edwar	1.0
01300	EC 029605	ARR	Hardman, Anna	1.0
01301	EC 029606	ARR	Metcalfe, Gilber	1.0
01302	EC 029607	ARR	Garman, David	1.0
01303	EC 029608	ARR	Dehejia, Rajeev	1.0
01304	EC 029609	ARR	Mcmillan, Marga	1.0
01305	EC 029610	ARR	Richards, Danie	1.0
01306	EC 029611	ARR	Spolaore, Enric	1.0
01307	EC 029612		Brown, Drusilla	1.0
01308	EC 029613		Zabel, Jeffrey	1.0
01310	EC 029615		Downes, Thomas	1.0
01311	EC 029616		Loury, Linda D	1.0
01312	EC 029617		Norman, George	1.0

EC 0297

GRADUATE RESEARCH

Guided research on a topic suitable for a doctoral dissertation. Variable credit.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01313	EC 029701	ARR		0.0	Permission Of Instructor
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EC 0401

MASTERS DEGREE CONT.

Part-time.

Please see departmental website for specific details.

Sections

01325	EC 0401PT	ARR	Staff	0.0
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Economics

EC 0402
MASTERS DEGREE CONT.

Full-time.

Please see departmental website for specific details.

Sections

01326	EC 0402FT	ARR	Staff	0.0
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Education

**ED 0001
SCHOOL AND SOCIETY**

Role and purpose of schooling in the United States. Focus on the desegregation and resegregation of schools in the last fifty years; proposals for school reform.

Sections

01329 ED 000101 D+ Cohen, Steven D 1.0

**ED 0099
FIELD EXPR IN EDUCATION**

Work in schools, museums, or alternative educational settings. Field placement and seminars devoted to the interaction process in learning settings and to materials and strategies for assisting learners.

Prerequisites: Permission of instructor.

Sections

01330 ED 009901 ARR Cohen, Steven D 1.0 Permission Of Instructor

**ED 0102
SUPV TCHG MID & SEC SCH**

Supervised classroom practice in middle or secondary school teaching with a weekly seminar. This course requires presence at the school for the entire school day for a minimum of twelve consecutive weeks. Variable credit (one to three course credits).

Prerequisites: Permission of instructor. Admission to the initial teacher licensure program.

Sections

01331 ED 010201 ARR Beardsley, Lind 2.0 Permission Of Instructor
01332 ED 010202 ARR Tucker, Martha 2.0 Permission Of Instructor

**ED 0120
PRAC OF TCHG HIS & PSPP**

Curriculum, materials, and principles of teaching for middle or secondary school history, political science/political philosophy, and behavioral sciences.

Prerequisites: Permission of instructor.

Sections

01333 ED 012001 ARR Cohen, Steven D 1.0 Wed 4:30-8:15 Pm

**ED 0121
PRAC OF TCHG SCIENCE**

Participants develop frameworks of organization, reflection, and assessment to specify aspects of students' knowledge and reasoning in middle and secondary school science teaching. Focuses on current teaching experiences presented in journals and videotapes

Prerequisites: Permission of instructor.

Sections

01334 ED 012101 ARR Gravel, Brian 1.0 Taught Concurrent With Ed122 Wed 4:30-7:15pm

**ED 0122
PRAC OF TCHG MATH**

Curriculum, materials, and principles of teaching for middle or secondary school mathematics.

Prerequisites: Permission of instructor.

Sections

01335 ED 012201 ARR Wilkerson, Mich 1.0 Taught Concurrent With Ed121 Wed 4:30-7:15pm

**ED 0123
PRAC OF TCHG ENGLISH**

Curriculum, materials, and principles of teaching for middle or secondary school English and language arts.

Prerequisites: Permission of instructor.

Sections

01336 ED 012301 ARR Tucker, Martha 1.0 Wed 4:30-8:15 Pm

**ED 0124
PRACTICES TEACHING LANG**

Curriculum, materials, and principles of teaching world languages for elementary, middle, or secondary school. Please see departmental website for detailed semester information.

Prerequisites: Permission of Instructor.

Sections

01337 ED 012401 11 Stoessel, Saski 1.0 C-1st Ger 124.pre-service Student Teachers Only
01338 ED 012402 ARR Beardsley, Lind 1.0 Meets Malden High School Wed 4-7 Pm

**ED 0125
LATIN&CLASSICAL TEACHING**

Curriculum, materials, and principles of teaching Latin and classical humanities for elementary, middle, or secondary school.

Prerequisites: Permission of instructor.

Sections

01339 ED 012501 ARR Beardsley, Lind 1.0 Meets Malden High School Wed 4-7 Pm

**ED 0129
PRAC TEACH ENGINEERING**

Exploration of the teaching of engineering and design in the K-12 setting based on current education literature and with application to the issues faced by the student-teacher.

Sections

04163 ED 012901 ARR Hynes, Morgan 1.0 Wed 4:30-7:15 Ceo Workshop Room

**ED 0142
EDUC EXCEPT CHILD**

Characteristic features, methods of diagnosis, psychological factors, and, where known, etiology of forms of the exceptional including persons who are gifted, mentally retarded, blind, deaf, language impaired, and emotionally disturbed. Educational planning within each form of exceptionality. Current state and federal legislation pertaining to the education of children with various disabilities.

Sections

01340 ED 014201 ARR Rogers, Laura 1.0 M 0430pm-0715

**ED 0161
SOCIOLOGY OF SCHOOL**

Educational institutions as social systems and the various external and internal social forces that shape them. Representative ethnographic studies of schooling with an emphasis on ethnicity, class, and gender as organizing categories of student experience and school social organization.

Sections

01341 ED 016101 ARR Vaught, Sabina 1.0 Monday 4:30-7:15

Education

ED 0166

MASCULINITIES/URBAN SCHL

This seminar is an introduction to social science theories and qualitative studies of masculinities in urban schooling. Themes of race, class, and sexuality and topics such as media, family, athletics, immigration, and the juvenile justice system as they relate to school policy, classroom practice, and urban social policy.

Prerequisites: Junior standing.

Sections

04165 ED 016601 12+ Wright, Brian L 1.0 Clist Amer019401

ED 0167

CRTS: ISSUES IN URBAN ED

(Cross-listed as AMER 186). An advanced theoretical seminar on race, class, gender and the political economy of urban schooling. Topics studied may include, but are not limited to welfare, law, labor policy, school policy.

Prerequisites: Junior standing and ED161 or consent.

Sections

01343 ED 016701 6+ Vaught, Sabina 1.0 C-1st Amer 186-01

ED 0182

TECH TOOLS FOR LEARNING

(Cross-listed as CD 145.) Explores the design and use of new tools to think with, including "hands-on" technological tools (software) and "heads-in" theories and values to examine tools suitable for a wide variety of age levels, settings, and topic areas.

Prerequisites: Permission of instructor.

Sections

01344 ED 018201 3 Bers, Marina U. 1.0 C-1st Cd 145* Consent

ED 0187

TEACHING/DRAMA&IMPROV

(Cross-listed as DR 187 and CD 187.) Review of the theory and practice of using drama in education. Aspects of dramatic expression, including dramatic play, improvisation, and story dramatization, as tools for extending the educational experiences of children and adolescents. Particularly suited for those interested in teaching preschool, elementary, middle, or secondary school.

Sections

04494 ED 018701 6+ Camara, Kathlee 1.0

ED 0192

SPECIAL TOPICS

Educational problems of interest and value to the individual student investigated under the supervision of a member of the department. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Open only to advanced students with permission of instructor.

Sections

01346 ED 019201 Brizuela, Barba 1.0 Permission Of Instructor
01347 ED 019202 Cohen, Steven D 1.0 Permission Of Instructor
01348 ED 019203 Pinto, Silas 1.0 Permission Of Instructor
01349 ED 019204 Luz-alterman, S 1.0 Permission Of Instructor

GENDER SCHLD:GENDER DEVL

01350 ED 019205 6+ Seaton, Erin 1.0 Permission Of Instructor
01351 ED 019206 ARR Gravel, Brian 1.0 Permission Of Instructor

RESEARCH SEMINAR

01352 ED 019207 ARR Hammer, David 0.5 Wed 1:30-3:00 Ceo Workshop Room
01353 ED 019208 ARR Tucker, Martha 1.0 Permission Of Instructor

01354 ED 019209 Schwartz, Judah 1.0 Permission Of Instructor
01355 ED 019210 Rogers, Laura 1.0 Permission Of Instructor
01356 ED 019211 ARR Robinson, Cynth 1.0 Permission Of Instructor
01357 ED 019212 ARR Vaught, Sabina 1.0 Permission Of Instructor

INTRO TO ED DESIGN

01358 ED 019213 ARR Wilkerson, Mich 1.0 Paige Hall Conf Room Tue 3:30-6:00

THERMO: SCI/PEDAGOGY

04166 ED 019214 ARR Vilenkin, Alexa 1.0 Monday 4:30-7:15
01345 ED 0192DMW Glaser, Mary E 1.0 Permission Of Instructor

ED 0199

FIELD STUDIES IN EDUC

Participation in applied activities or in research or educational projects involving the development of programs and materials in schools and museums, or in other educational settings, such as those associated with clinical settings, media studios, or industry. In addition to the field experience, students are required to attend biweekly seminars devoted to the analysis of the theoretical and practical issues related to the fieldwork.

Prerequisites: Permission of instructor.

Sections

01360 ED 019901 Brizuela, Barba 1.0 Permission Of Instructor
01361 ED 019902 Cohen, Steven D 1.0 Permission Of Instructor
01362 ED 019903 Pinto, Silas 1.0 Permission Of Instructor
01363 ED 019904 Luz-alterman, S 1.0 Permission Of Instructor
01364 ED 019905 ARR Seaton, Erin 1.0 Permission Of Instructor
01365 ED 019906 ARR Gravel, Brian 1.0 Permission Of Instructor
01366 ED 019907 ARR Hammer, David 1.0 Permission Of Instructor
01367 ED 019908 Tucker, Martha 1.0 Permission Of Instructor
01368 ED 019909 Schwartz, Judah 1.0 Permission Of Instructor
01369 ED 019910 Rogers, Laura 1.0 Permission Of Instructor
01370 ED 019911 ARR Robinson, Cynth 1.0 Permission Of Instructor
01371 ED 019912 ARR Vaught, Sabina 1.0 Permission Of Instructor
01372 ED 019913 ARR Wilkerson, Mich 1.0 Permission Of Instructor

ED 0202

APPRENTICESHIP IN TEACH

Supervised teaching of at least 400 hours in a school setting designed to offer advanced clinical experience to those wishing to meet the requirements for professional teacher licensure. Apprentices are expected to demonstrate an understanding of teaching practices and theory, knowledge of theories of learning, as well as mastery of content area knowledge and pedagogical content knowledge. Students are expected to participate in a weekly seminar. One to three course credits. Prerequisite: initial teacher licensure.

Prerequisites: Permission of instructor. Initial teacher licensure.

Sections

01373 ED 020201 ARR Beardsley, Lind 1.0 Meets At Shady Hill School

ED 0212

CONCEPTUAL DISTINCTIONS

The course consists of a science strand and a practice strand. Heat and Temperature are often confused with each other, and in this course, participants work to disentangle these related but fundamentally different concepts. They use probes to measure temperature change as they explore heat transfer in the environment around them. They use computer software to explore and explain thermal phenomena using the particulate theory of matter that depends on thinking of matter as composed of microscopic atoms and molecules. The practice strand

Education

addresses formative assessment, that is, classroom assessments that inform instruction. In their study of assessment participants: (a) develop skills for eliciting and interpreting scientific ideas held by students; (b) become familiar with research about children's science ideas; and (c) consider possible strategies to encourage further development of students' scientific understanding. During the course participants maintain a log documenting the evolution of their practices in the clinical setting and of their understanding of assessment for learning. Based on their learning, participants set goals for incorporating new formative assessment strategies into their practices. Course is a blended face to face and online course.

Prerequisites: Consent

Sections

01374 ED 021201 ARR Portsmore, Merr 1.0

ED 0221

1STYR SEM SCH PSYCH PRAC

This seminar will focus upon the integration of content knowledge and skill development with student's initial observations of school based practice. The development of culturally competent practice is emphasized.

Sections

01375	ED 022101	ARR	Luz-alterman, S	0.5	Meets Paige Hall Conf Room Thu 11:35-1:15pm
01376	ED 022102	ARR	Seaton, Erin	0.5	Meets Paige Hall Conf Room Thu 11:35-1:15pm

ED 0223

MSTE PROSEMINAR

First and second year MSTE students are required to take an ongoing Program Seminar (Proseminar) and receive, at the end of two years, a total of two course credits in this group (0.5 course credits per term). The course meets biweekly, is attended by interested faculty and researchers and by all first and second year students, focuses on issues of current interest, and constitutes a forum for outside speakers, students and faculty in the program to present their ongoing research and to discuss papers of outstanding relevance for those in the program. Students in the more advanced years of the program will be invited to use the proseminar as a forum to present and receive feedback on their dissertation work at various points during its development.

Prerequisites: Permission of instructor.

Sections

01377	ED 022301	ARR	Brizuela, Barba	0.5	Meets Ceoo Workshop Room Thu 3:30-6:00
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ED 0232

PRAC IN SCHOOL PSYCH

Supervised 600-hour experience in the practice of school psychology under direction of practicing licensed school psychologist. Participation in team evaluations, diagnostic prescription writing, and conferences with parents and school personnel. Two courses.

Prerequisites: Permission of instructor.

Sections

01378	ED 023201	ARR	Rogers, Laura	1.0	Meets Paige Conf Room Thu 1:30-3:00
01379	ED 023202	ARR	Finer, Diana	1.0	Meets Paige Hall Lounge Thu 1:30-3:00
01380	ED 023203	ARR	Trant, Robert P	1.0	Meets Paige Hall Garden Room Thu 4-6 Pm

ED 0243

ASSESSMNT OF COG ABILS

The purpose of this course is to provide knowledge and skill in the area of cognitive and intellectual assessment. The course is designed to (a) introduce students to the process of standardized intellectual assessment, (b) develop skills for administering and critically evaluating the results of standardized measures of cognitive and intellectual functioning, (c) evaluate and integrate information obtained during the assessment process with other sources of information about the child's learning and behavior, (d) communicate assessment findings in both written and oral formats in a clear manner to a variety of audiences, and (e) consider the role that cognitive and intellectual functioning play in the classification and programming for students with disabilities.

Sections

01381 ED 024301 6+ Rogers, Laura 1.0

ED 0245

SOC&EMO DEV IN CHLD&ADOL

This course explores human growth and development over the lifespan, critically examining the ways in which relationships, identity, culture, cognition, and human biology interact to shape an individual. Developmental issues, beginning with attachment in infancy, social and emotional development in childhood, identity in adolescence and young adulthood, and vocational growth in young adulthood, are discussed. Students will draw on psychological, sociological, educational, literary, and artistic perspectives to scaffold their understanding of human development.

Sections

01382 ED 024501 1+ Seaton, Erin 1.0

ED 0249

MULTICULT THRY,RES&PRAC

Culture and ethnicity as psychological variables and as factors in human development. Focus on multicultural and cross-cultural considerations with emphasis on theory, research, and practice in mental health service.

Sections

01383 ED 024901 8+ Pinto, Silas 1.0

ED 0250

INTRO TO RORSCHACH

Comprehensive Rorschach assessment of basic personality functioning. This includes stress coping skills, perception of reality, information processing, ideation, emotional status, and interpersonal skills. Potential uses for school psychologists engaged in assessing the emotional and personality status of referred students are emphasized. licensure.

Prerequisites: ED 246 or equivalent or school psychology

Sections

04167 ED 025001 12+ Feneberg, Winfr 0.5

ED 0252

GROUP DYN IN ED SETTNCS

The structure, functions, and dynamics of groups. Observation and analysis of group structures and functions, interactions and dynamics of change in groups, effects of the group on the individual, and effects of the individual on the group. The class will be part of its own laboratory. Limited enrollment.

Prerequisites: Permission of instructor.

Sections

01384 ED 025201 ARR Schwartzberg, S 1.0

ED 0256

SCHOOL-BASED CONSULT

The purpose of this course is to provide students with the knowledge and skills necessary for a broad-based and pragmatic approach to collaborative consultation and problem-solving within a school context. We will explore collaborative consultative processes, drawing from current perspectives on consultation practices and issues. The complex dynamics of the consultant-consultee relationship as well as the evaluation of the process and outcomes within a problem-solving model of consultation will be examined through course readings, course

Education

consultation experiences, and a field-based consultation.

01404 ED 027613 ARR Wilkerson, Mich 1.0 Permission Of Instructor

Sections

01385 ED 025601 6+ Greene, Ross W. 1.0

ED 0258
INTERNSHIP SCHOOL PSYCH

Supervised 1,200-hour clinical experience, 600 hours of which must be in a school setting under the supervision of a practicing licensed school psychologist. The remaining 600 hours may be completed in a clinical setting under the supervision of a licensed psychologist. Participation in delivery of all aspects of psychological services showing advanced understanding of professional practice. Two courses.

Prerequisites: ED 231, 232, and permission of instructor.

Sections

01386	ED 025801	ARR	Greene, Ross W.	1.0	Meets Paige Hall Conf Room Tue 5:00-7:00
01387	ED 025802	ARR	Finer, Diana	1.0	Meets Paige Hall Student Lounge Thu 4:00-6:00
01388	ED 025803	ARR	Curcio, Judith	1.0	Meets Paige Hall Conf Room Thu 4:00-6:00

ED 0274
METHODS OF SCH PSYCH RES

An introduction to research methods employed in conducting and understanding educational and psychological research. Topics will cover quantitative and qualitative methods in single-subject and small group designs.

Sections

01390 ED 027401 12+ Hackett, Paul 1.0

ED 0275
SEM IN ADV SCH PSYCH RES

Course provides an opportunity for students to propose and conduct a research project within an area of interest. The course will take a collaborative approach to addressing the various topics focusing on individuals, groups or systems level school-based problems.

Prerequisites: ED 271

Sections

01391 ED 027501 3+ Pinto, Silas 1.0

ED 0276
INTERNSHIP

Guided experience in an approved educational setting with supervision. Each student is expected to work in an approved facility for at least 150 hours over the course of one or two semesters. One course credit. Please contact the department for detailed information.

Prerequisites: Permission of instructor.

Sections

01392	ED 027601		Gravel, Brian	1.0	Permission Of Instructor
01393	ED 027602		Cohen, Steven D	1.0	Permission Of Instructor
01394	ED 027603		Pinto, Silas	1.0	Permission Of Instructor
01395	ED 027604		Luz-alterman, S	1.0	Permission Of Instructor
01396	ED 027605	ARR	Seaton, Erin	1.0	Permission Of Instructor
01397	ED 027606	ARR	Gravel, Brian	1.0	Permission Of Instructor
01398	ED 027607	ARR	Hammer, David	1.0	Permission Of Instructor
01399	ED 027608		Tucker, Martha	1.0	Permission Of Instructor
01400	ED 027609		Schwartz, Judah	1.0	Permission Of Instructor
01401	ED 027610		Rogers, Laura	1.0	Permission Of Instructor
01402	ED 027611	ARR	Robinson, Cynth	1.0	Permission Of Instructor
01403	ED 027612	ARR	Vaught, Sabina	1.0	Permission Of Instructor

ED 0281
CUR DEV MUS SCH COLL

Analysis and development of curriculum through collaborations between museums, schools, and community educational programs. Examination of the collaborative process, learning goals, curriculum frameworks, and methods for developing educational outreach programs and materials. Students will explore ways in which museums, national parks, and other cultural institutions can work with schools and other educational settings to develop educational programs for various audiences. Teams of students will work directly with museum education programs and schools to develop a curriculum project.

Prerequisites: ED 280 or permission of instructor.

Sections

01405 ED 028101 12+ Young, Tara R. 1.0 High Demand Reg Dept/consent Of Inst, Mus Studies Crs

ED 0282
PROSEMINAR IN MUSEUM ED

This seminar focuses on topics of special interest to the museum educator. Depending on student interest, topics may include analysis and discussion of interpretive methods, development of teaching materials, development and evaluation of educational museum outreach programs and family programs. Students are required to prepare a presentation to the class and a research paper analyzing a selected issue in museum education.

Prerequisites: ED 280 or permission of instructor.

Sections

01406 ED 028201 10+ Robinson, Cynth 1.0 Museum Studies Crs,paige Hall Conf Room

ED 0284
MUSEUM STUDIES INTERNSHP

(Cross-listed as FAH 289 and HIST 292.) Supervised experience in a museum setting. Variable credit.

Prerequisites: Permission of instructor.

Sections

01407 ED 028401 ARR Robinson, Cynth 1.0 To Reg Contact Intrnshp Sup 617-627-3022

ED 0292
SPECIAL TOPICS

Guided individual study of an approved topic. One course or one-half course as arranged. Please contact the department for detailed information.

Please see departmental website for specific details.

Sections

01408	ED 029201		Brizuela, Barba	1.0	Permission Of Instructor
01409	ED 029202		Cohen, Steven D	1.0	Permission Of Instructor
01410	ED 029203	ARR	Pinto, Silas	1.0	Permission Of Instructor
01411	ED 029204	ARR	Luz-alterman, S	1.0	Permission Of Instructor
01412	ED 029205	ARR	Seaton, Erin	1.0	Permission Of Instructor
01413	ED 029206	ARR	Gravel, Brian	1.0	Permission Of Instructor
01414	ED 029207	ARR	Hammer, David	1.0	Permission Of Instructor
01415	ED 029208	ARR	Tucker, Martha	1.0	Permission Of Instructor
01416	ED 029209	ARR	Schwartz, Judah	1.0	Permission Of Instructor
01417	ED 029210	ARR	Rogers, Laura	1.0	Permission Of Instructor

MUS AND ONLINE LEARNING

01418 ED 029211 8+ Robinson, Cynth 1.0 Meets Thu 1:20-4:20

Education

01419 ED 029212 ARR Vaught, Sabina 1.0 Permission Of Instructor
01420 ED 029213 ARR Wilkerson, Mich 1.0 Permission Of Instructor

ED 0501
DOCTORAL CONTINUATION PT
Part-time.

Please see departmental website for specific details.

ED 0295
THESIS

Guided research on a topic that has been approved as a suitable subject for a master's thesis. Two courses.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01422 ED 029501 ARR Staff 1.0 Permission Of Instructor

Sections

01431 ED 0501PT 0.0

ED 0502
DOCTORAL CONTINUATION FT

Full-time.

Please see departmental website for specific details.

Sections

01432 ED 0502FT 0.0

ED 0296
THESIS

Guided research on a topic that has been approved as a suitable subject for a master's thesis. Two courses.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01423 ED 029601 ARR Staff 1.0 Permission Of Instructor

ED 0298
DOCTORAL DISSERTATION

Guided research on a topic that has been approved as a suitable subject for a doctoral dissertation. Two courses. Please contact department for more detailed information.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01424 ED 029801 ARR Staff 1.0 Permission Of Instructor

ED 0299
QUALIFYING PAPER

Please see departmental website for detailed course description.

Sections

01425 ED 029901 ARR Brizuela, Barba 1.0 Permission Of Instructor
01426 ED 029902 ARR Brizuela, Barba 1.0 Permission Of Instructor

ED 0401
MASTERS CONTINUATION PT

Part-time.

Please see departmental website for specific details.

Sections

01427 ED 0401PT 0.0

ED 0402
MASTERS CONTINUATION FT

Full-time.

Please see departmental website for specific details.

Sections

01428 ED 0402FT 0.0

Education at Museum School

EDS 0173

STUDENT TEACH ART PREK-8

(Fall 2010 & Beyond). The course is designed to support student art teachers in their practicum fulltime internship in a school art classroom for grades PK-8. Emphasis is placed on developing the artist/researcher/teacher identity with a critical view on the role of art education in visual culture and multicultural education. The role of teaching philosophy, social justice issues, student voice & activism, public school culture, and curriculum development are studied. Strategies and organization for meeting state requirements to achieve teacher licensure are offered through the standards presented in the state Dept of Education's Pre-service Performance Assessment. Professional practices and career launching strategies are explored. Lifelong learning as a community leader in art education is modeled through an exhibit and gallery talk at the culminating event, the Art Education Festival.

Prerequisites: MAT students only.

Sections

01434	EDS 0173MU	ARR	Bode, Patricia	2.0	Museum Schl Mission Hill Wed 4:00-7:00 Pm
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EDS 0174

STUDENT TEACH ART 5-12

(Fall 2010 & Beyond). The course is designed to support student art teachers in their practicum fulltime internship in a school art classroom for grades 5-12. Emphasis is placed on developing the artist/researcher/teacher identity with a critical view on the role of art education in visual culture and multicultural education. The role of teaching philosophy, social justice issues, student voice & activism, public school culture, and curriculum development are studied. Strategies and organization for meeting state requirements to achieve teacher licensure are offered through the standards presented in the state Dept of Education's Pre-service Performance Assessment. Professional practices and career launching strategies are explored. Lifelong learning as a community leader in art education is modeled through an exhibit and gallery talk at the culminating event, the Art Education Festival.

Prerequisites: MAT students only.

Sections

01435	EDS 0174MU	ARR	Ripley, Kristen	2.0	Museum Schl Mission Hill Wed 4:00-7:00 Pm
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EDS 0176

ART ED CURRIC PRE K-8

(Fall 2010 & Beyond). This course focuses on curriculum development for elementary and middle school art programs. Emphasis is placed on lesson and unit plan writing, curriculum design, and critical study of existing art curricula. Discussion topics include: curriculum development for diverse student populations, integration of art with other subjects, the application of national and state standards to curriculum, evaluation criteria and procedures, and studies of contemporary art and visual culture in art curricula. Instructional methods, assessment strategies, art media, and technologies will be explored through student projects and presentations.

Prerequisites: MAT students only unless granted special permission.

Sections

01436	EDS 0176MU	ARR	Bower, Pamela	1.0	Museum Schl Mission Hill Thu 4:00-7:00 Pm
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EDS 0178

ART ED CURRIC 5-12

(Fall 2010 & Beyond). This course will guide students in formulating a standards-based curriculum for a yearlong high school or middle school course. Methods and examples will be reviewed, evaluated and discussed so students can compose their own goals, objectives, units and lessons that reflect the National Standards and the Massachusetts Frameworks. This course strives to help students understand the definition, purpose, and variety of different curricula and the role of curriculum in the art classroom. The course fosters the development of sequential units, guided by enduring understandings and essential questions. Lessons will reflect the knowledge and practice of differentiated instruction and reflect a strong academic tradition and sensitivity to the developmental growth and personal uniqueness of all learners. Multicultural education and postmodernism will be included in curriculum perspectives. Written reflections and presentations on curriculum ideas, and assessment revolving around the facets of understanding are important components of the course. Guest speakers will include former students who will share their teaching experiences as well as an evaluator for the Advanced Placement program who will discuss the requirements and assessment rubrics of the AP program.

Prerequisites: MAT students only unless granted special permission.

Sections

01437	EDS 0178MU	ARR	Bower, Pamela	1.0	Museum Schl Mission Hill Tue 4:00-7:00 Pm
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Electrical Engineering

EE 0012

INTERMED ELECTRON W/LAB

(THRU SPRING 2012). Techniques used in the analysis of multitransistor circuits; RC oscillators, LC oscillators, and waveform generators; transistor arrangements common to integrated circuits, including current mirrors, balanced pairs, and output structures; power amplifiers. Associated laboratory work. Spring.

Students may not take both EE12 and EE22 for credit.

Prerequisites: EE 11.

Sections

01438	EE 001201	H	Staff	1.0	Prerequisite: Ee 11
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EE 0018

ELECTROMAG FLD/WAV W/LAB

Coordinate systems and transformations, base vectors, scalar and vector point functions, gradient, divergence, curl, Laplacian, divergence theorem, Stokes theorem, source-point and field-point notation, electrostatic and magnetostatic fields and laws, scalar and vector potential functions, continuity equation, Maxwell's equations in differential and integral form, boundary conditions, wave equation, time-harmonic fields, plane waves, electromagnetic radiation, dipole antenna, Poynting theorem, distributed circuits and transmission lines. Associated laboratory work. Spring.

Prerequisites: MATH 38, EE 13.

Sections

01441	EE 001801	G+	Staff	1.0	Prerequisites: Ee 13 And Math 38
01440	EE 0018REC	GF	Staff	0.0	

EE 0021

ELECTRONICS I W/LAB

Characteristics of the operational amplifier; amplifiers and active filters using the operational amplifier; analysis and design of filters using phasors; characteristics of junction diodes, analysis and design of diode circuits; field-effect transistors, MOSFET device operation, small-signal models and the low-frequency analysis of transistor amplifiers; Elementary MOS amplifier configurations. Associated laboratory work. Students may not take both EE 21 and either EE 11 or EE 13 for credit.

Prerequisites: ES 3.

Sections

04244	EE 002101	F+TR	V. Joyner	1.0	Prereq: Es3
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EE 0026

DIGITAL LOGIC SYS W/LAB

Integrated circuit logic families and their characteristics. Review of combinatorial and sequential design using SSI devices. Arithmetic circuits, shift registers, and counters. Random access and read only memories. Design of memory systems. Waveshaping devices and display devices. Programmable logic arrays and their applications. Asynchronous and synchronous system design using MSI and LSI devices. Finite state machines and the specification of system controllers. Systematic approaches to controller realization. Associated laboratory work. Spring.

Prerequisites: ES 4 and EE 14, or permission.

Sections

01442	EE 002601	I+	Chang, Chorn H	1.0	Prerequisites: Es 4 And Ee 14
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EE 0031

JUNIOR DESIGN PROJECT

Junior level team project with ECE faculty direction and guidance. Introduction of the engineering method: concept, planning and analysis, design, test. Integration of theoretical concepts from circuit theory, digital and analog electronics, signal processing, engineering economics, and engineering design practices to deliver a working prototype. Use of microcontroller and peripherals, analog-to-digital converters, digital signal-processors, memory and computer aided design tools. Students are expected to provide schedules, schematics and specifications; build prototypes; present their projects orally; and deliver a working system.

Prerequisites: Junior Standing

Sections

04245	EE 003101	I+	Lasser, Ron	1.0	
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EE 0050

INTRO BIOMED ENGINEERING

(Cross-listed as BME 50 and ES 50.) An introduction to the interdisciplinary nature of biomedical engineering. The biological, chemical, electrical, and mechanical principles involved in the design and operation of medical devices. Biopotentials, electrodes, transducers, biocompatibility of materials, and patient safety. Fall.

Prerequisites: PHY 2 or PHY 12, or permission of instructor.

Sections

01443	EE 005001	K+	Omenetto, Fiore	1.0	C-1st Bme 50
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EE 0094

SPECIAL TOPICS

Guided independent study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of Instructor

Sections

01444	EE 009401	M+	Sonek, Gregory	1.0	Prerequisite: Es3 & Jr Standing
01445	EE 009402	ARR	Afsar, Mohammed	1.0	Permission Of Instructor
01446	EE 009403	ARR	Chang, Chorn H	1.0	Permission Of Instructor
01447	EE 009404	ARR	Hopwood, Jeffre	1.0	Permission Of Instructor
01448	EE 009405	ARR	Joyner, Valenci	1.0	Permission Of Instructor
01449	EE 009406	ARR	Lasser, Ron	1.0	Permission Of Instructor
01450	EE 009407	ARR	Miller, Eric	1.0	Permission Of Instructor
01451	EE 009408	ARR	Noonan, Joseph	1.0	Permission Of Instructor
01452	EE 009409	ARR	Panetta, Karen	1.0	Permission Of Instructor
01453	EE 009410	ARR	Preis, Douglas	1.0	Permission Of Instructor
01454	EE 009411	ARR	Sonkusale, Same	1.0	Permission Of Instructor
01455	EE 009412	ARR	Stankovic, Alek	1.0	Permission Of Instructor
01456	EE 009413	ARR	Vandervelde, Th	1.0	Permission Of Instructor
04246	EE 009414	ARR	Aeron, Shuchin	1.0	Permission Of Instructor
04247	EE 009415	ARR	Khan, Usman	1.0	Permission Of Instructor

EE 0096

SPECIAL PROJECTS

Undergraduate research under supervision of a member of the department. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01457	EE 009602		Afsar, Mohammed	1.0	Permission Of Instructor
01458	EE 009603		Chang, Chorn H	1.0	Permission Of Instructor
01459	EE 009604		Hopwood, Jeffre	1.0	Permission Of Instructor
01460	EE 009605		Joyner, Valenci	1.0	Permission Of Instructor
01461	EE 009606		Lasser, Ron	1.0	Permission Of Instructor
01462	EE 009607		Miller, Eric	1.0	Permission Of Instructor
01463	EE 009608		Noonan, Joseph	1.0	Permission Of Instructor
01464	EE 009609		Panetta, Karen	1.0	Permission Of Instructor
01465	EE 009610		Preis, Douglas	1.0	Permission Of Instructor

Electrical Engineering

01466	EE 009611		Sonkusale, Same	1.0	Permission Of Instructor
01467	EE 009612		Stankovic, Alek	1.0	Permission Of Instructor
01468	EE 009613		Vandervelde, Th	1.0	Permission Of Instructor
04248	EE 009614	ARR	Aeron, Shuchin	1.0	Permission Of Instructor
04249	EE 009615	ARR	Khan, Usman	1.0	Permission Of Instructor

EE 0098 SENIOR DESIGN PROJECT

A comprehensive design project undertaken during the senior year, individually or as a team, under the guidance of a faculty supervisor. The work is spread over two terms.

Please see departmental website for specific details.

Prerequisites: Senior standing and permission of instructor.

Sections

PART 2

01469	EE 009801	ARR	Lasser, Ron	0.5	Senior Standing
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EE 0099 UNDRGRD INTRN ELEC ENGIN

Supervised internships at suitable locations in industry and government. Jobs offered on basis of availability. Term paper required. Credit not given retroactively. Prior arrangements necessary.

Prerequisites: Permission of instructor.

Sections

01470	EE 009902	ARR	Afsar, Mohammed	1.0	
01471	EE 009903	ARR	Chang, Chornng H	1.0	
01472	EE 009904		Hopwood, Jeffrey	1.0	
01473	EE 009905		Joyner, Valenci	1.0	
01474	EE 009906		Lasser, Ron	1.0	
01475	EE 009907		Miller, Eric	1.0	
01476	EE 009908		Noonan, Joseph	1.0	
01477	EE 009909		Panetta, Karen	1.0	
01478	EE 009910		Preis, Douglas	1.0	
01479	EE 009911		Sonkusale, Same	1.0	
01480	EE 009912		Stankovic, Alek	1.0	
01481	EE 009913		Vandervelde, Th	1.0	
04250	EE 009914	ARR	Aeron, Shuchin	1.0	Permission Of Instructor
04251	EE 009915	ARR	Khan, Usman	0.0	Permission Of Instructor

EE 0100 DESIGN OF MED INSTRUMENT

(Cross-listed as BME 100.) An introduction to the design principles of microprocessor-based medical instrumentation and simple biomedical signal analysis. Topics include the origin of bioelectric potentials, characteristics of various biological signals, transducers, A/D converters, analog and digital filters, instrumentation amplifiers, patient isolation, battery powered equipment, and microprocessor design. Each student will be required to complete a paper design of a biomedical instrument. Spring.

Prerequisites: ES 3.

Sections

01482	EE 010001	J+	Cronin-golomb,	1.0	C-1st Bme 100
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EE 0102 LINEAR SYSTEMS

(THRU SPRING 2012). Vector spaces, orthogonality, Fourier series, the Fourier transform, the laplace transform, convolution, and correlation. The Z transform. Matrices, Eigenvalues, and Eigenvectors. Numerical methods for linear systems. Fall.

Students may not take both EE 102 and EE 23 for credit.

Prerequisites: MATH 38 or permission of instructor.

Sections

01483	EE 010201	E+MW	Tracey, Brian	1.0	Prerequisites: Math 38 Or Consent
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EE 0108 COMMUNICATIONS SYS II

Probability theory and random variable analysis applied to communications and signal-processing problems. Random process models, correlation and power spectra analysis of signals and noise. Effects of noise on modulation systems. Mean squared estimations, optimum receiver and signal space concepts. Fall.

Prerequisites: EE 18 and 107.

Sections

01484	EE 010801	E+MW	Noonan, Joseph	1.0	Prerequisite: Ee 107
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EE 0113 SEMICONDUCT DEVICE W/LAB

Introduction to semiconductor physics; quantum mechanics, equilibrium distribution; charge transport; P-N junction theory; diodes; bipolar junction transistors; field-effect devices; heterojunction devices; novel semiconductor devices such as carbon nanotubes.

Prerequisites: EE 11 and MATH 38.

Sections

04252	EE 011301	M+	Aull, Brian	1.0	Prereq:ee11&m ath38 Or Phys13&42
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EE 0127 INFORMATION THEORY

Characterization of stochastic signals and description of communication channels, measures of information of signals, fundamental coding theorems and the generation of efficient codes, measures of channel capacity, transmission through noise-free and noisy channels, coding for error detection and correction. Applications of information theory to spectral estimation, image processing, and spread spectrum systems. Analysis and comparisons of digital communications systems. Fall.

Prerequisites: EE 108 or permission of instructor.

Sections

04253	EE 012701	L+	Aeron, Shuchin	1.0	Prereq:ee108 Or Poi
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EE 0129 COMPUTER COMMUN NETWORK

Data communications concepts. Communications networking techniques: switching and broadcast networks, access protocols, local networks. Design issues, overview of current products. Computer communications architecture: hardware/software issues, protocols and architecture, layered approach and hierarchical approach. Prerequisite: senior or graduate electrical engineering degree candidate, or consent.

Prerequisites: Senior or graduate electrical engineering degree candidate, or permission of instructor.

Sections

01485	EE 012901	L+	Chang, Chornng H	1.0	
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EE 0131 PRIN MEDICAL IMAGING

(Cross-listed as BIO 131 and BME 131.) This interdisciplinary course presents the principles of medical imaging techniques such as diagnostic ultrasound, radiography, X-ray computed tomography (CT), and magnetic resonance imaging (MRI). For each imaging modality, topics include the physical principles, key aspects of instrumentation design, mathematical methods, and the anatomical/physiological information content of the images. Representative medical images will be discussed and interpreted. This course cannot be taken for basic science requirement for engineering students.

Prerequisites: MATH 11, PHY 2 or 12, or permission of instructor.

Sections

01486	EE 013101	F+TR	Fantini, Sergio	1.0	C-1st Bme & Bio 131
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Electrical Engineering

EE 0136 ANT RADAR, AVION & COMM

Definition of fields, radiation patterns, sources, linearity, and superposition. Antennae parameters: gain, effective aperture, beamwidth, sidelobes, impedance, polarization, and bandwidth. Radiation: electric dipole, multiple sources. Transmission lines and waveguides. Radiation from discontinuities, slots, and horns. Techniques of antenna measurements. Theory of antenna arrays. Spring.

Prerequisites: Senior or graduate standing in electrical engineering or physics.

Sections

01489	EE 013601	12+	Mailloux, Rober	1.0	Prerequisite: Senior Standing
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EE 0137 RADAR ENGINEERING

Physical principles and basic equations. Pulsed, continuous-wave, and pulsed-Doppler radars. Antenna systems; transmitters; detection theory. Waveform considerations, including pulse compression. Principles of synthetic aperture radar. Miscellaneous topics: propagation, clutter, and airborne radar. Fall.

Prerequisites: EE 18 or equivalent.

Sections

04254	EE 013701	10+	Staff	1.0	Prereq:ee18 Or Equivalent
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EE 0145 ADV DIGITAL SIGNAL PROC

Discrete time signals in time and frequency domains. Advanced topics in digital processing of continuous-time signals. Digital filter structures, design, implementation, finite wordlength effects. Multirate signal processing. Applications. Associated laboratory work.

Prerequisites: EE 125 or permission of instructor.

Sections

01490	EE 014501	H+	Preis, Douglas	1.0	Prerequisites: Ee 125 Or Consent
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EE 0160 CAD OF MICROWAVE CIR

Microwave network representation, scattering matrix, constant gain circles, stability and gain concepts, microwave amplifier design. Modeling of circuit elements: coaxial lines, striplines, microstriplines, coplanar lines, coupled lines, lumped elements. Sensitivities and measurement techniques. Constant noise circles and low-noise broad-band amplifier design. Microwave circuit analysis and gradient techniques, multiband and multimode optimization of filters, phase shifters, and switches. Extensive laboratory and project work using state-of-the-art CAD software.

Prerequisites: EE 117

Sections

04255	EE 016001	11+	Afsar, Mohammed	1.0	Prereq:ee117
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EE 0192 SEMINAR ELEC ENINRG

A course devoted to the study of special problems in electrical engineering. Credit as arranged.

Please see departmental website for specific details.

Sections

01493	EE 019201	J+T	Panetta, Karen	0.5	
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EE 0194 SPECIAL TOPICS

Guided independent study of an approved topic at an intermediate level. Credit as arranged.

Prerequisites: Permission of instructor.

Sections

INVERSE PROBLEMS

01494	EE 019401	D+	Miller, Eric	1.0	Permission Of Instructor
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NETWORKED ESTIM&CONTROL

01495	EE 019402	K+	Khan, Usman	1.0	Permission Of Instructor
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POWER ELECTRONICS

01496	EE 019403	F+TR	Stankovic, Alek	1.0	Permission Of Instructor
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01497	EE 019404	ARR	Hopwood, Jeffrey	1.0	Permission Of Instructor
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01498	EE 019405	ARR	Joyner, Valenci	1.0	Permission Of Instructor
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01499	EE 019406	ARR	Lasser, Ron	1.0	Permission Of Instructor
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01500	EE 019407	ARR	Miller, Eric	1.0	Permission Of Instructor
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01501	EE 019408	ARR	Noonan, Joseph	1.0	Permission Of Instructor
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01502	EE 019409	ARR	Panetta, Karen	1.0	Permission Of Instructor
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01503	EE 019410		Preis, Douglas	1.0	
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01504	EE 019411	ARR	Sonkusale, Same	1.0	Permission Of Instructor
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01505	EE 019412	ARR	Stankovic, Alek	1.0	Permission Of Instructor
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01506	EE 019413		Vandervelde, Th	1.0	
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04256	EE 019414	ARR	Aeron, Shuchin	1.0	Permission Of Instructor
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04257	EE 019415	ARR	Khan, Usman	1.0	Permission Of Instructor
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EE 0197 HONORS THESIS - EE

Honors Thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01507	EE 019702	ARR	Afsar, Mohammed	1.0	Permission Of Instructor
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01508	EE 019703		Chang, Chornng H	1.0	Permission Of Instructor
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01509	EE 019704		Hopwood, Jeffrey	1.0	Permission Of Instructor
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01510	EE 019705		Joyner, Valenci	1.0	Permission Of Instructor
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01511	EE 019706		Lasser, Ron	1.0	Permission Of Instructor
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01512	EE 019707		Miller, Eric	1.0	Permission Of Instructor
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01513	EE 019708		Noonan, Joseph	1.0	Permission Of Instructor
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01514	EE 019709		Panetta, Karen	1.0	
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01515	EE 019710		Preis, Douglas	1.0	Permission Of Instructor
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01516	EE 019711		Sonkusale, Same	1.0	Permission Of Instructor
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01517	EE 019712		Stankovic, Alek	1.0	Permission Of Instructor
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01518	EE 019713		Vandervelde, Th	1.0	Permission Of Instructor
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04261	EE 019714	ARR	Aeron, Shuchin	1.0	Permission Of Instructor
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04262	EE 019715	ARR	Khan, Usman	1.0	Permission Of Instructor
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Electrical Engineering

EE 0199 INTERNSHIP

Supervised internships at suitable locations in industry and government. Jobs offered on basis of availability. Term paper required. Credit not given retroactively. Prior arrangements necessary.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01519	EE 019902	ARR	Afsar, Mohammed	0.0-3.0	Permission Of Instructor
01520	EE 019903	ARR	Chang, Chornng H	0.0-3.0	Permission Of Instructor
01521	EE 019904	ARR	Hopwood, Jeffre	0.0-3.0	Permission Of Instructor
01522	EE 019905	ARR	Joyner, Valenci	0.0-3.0	Permission Of Instructor
01523	EE 019906	ARR	Lasser, Ron	0.0-3.0	Permission Of Instructor
01524	EE 019907	ARR	Miller, Eric	0.0-3.0	Permission Of Instructor
01525	EE 019908	ARR	Noonan, Joseph	0.0-3.0	Permission Of Instructor
01526	EE 019909	ARR	Panetta, Karen	0.0-3.0	Permission Of Instructor
01527	EE 019910	ARR	Preis, Douglas	0.0-3.0	Permission Of Instructor
01528	EE 019911	ARR	Sonkusale, Same	0.0-3.0	Permission Of Instructor
01529	EE 019912	ARR	Stankovic, Alek	0.0-3.0	Permission Of Instructor
01530	EE 019913	ARR	Vandervelde, Th	0.0-3.0	Permission Of Instructor
04263	EE 019914	ARR	Aeron, Shuchin	1.0	Permission Of Instructor
04265	EE 019915	ARR	Khan, Usman	1.0	Permission Of Instructor

EE 0294 MASTER'S PROJECT

Guided individual study of an approved topic suitable for a master's design project. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01533	EE 029402	ARR	Afsar, Mohammed	1.0	Permission Of Instructor
01534	EE 029403	ARR	Chang, Chornng H	1.0	Permission Of Instructor
01535	EE 029404	ARR	Hopwood, Jeffre	1.0	Permission Of Instructor
01536	EE 029405	ARR	Joyner, Valenci	1.0	Permission Of Instructor
01537	EE 029406	ARR	Lasser, Ron	1.0	Permission Of Instructor
01538	EE 029407	ARR	Miller, Eric	1.0	Permission Of Instructor
01539	EE 029408	ARR	Noonan, Joseph	1.0	Permission Of Instructor
01540	EE 029409	ARR	Panetta, Karen	1.0	Permission Of Instructor
01541	EE 029410	ARR	Preis, Douglas	1.0	Permission Of Instructor
01542	EE 029411	ARR	Sonkusale, Same	1.0	Permission Of Instructor
01543	EE 029412	ARR	Stankovic, Alek	1.0	Permission Of Instructor
01544	EE 029413	ARR	Vandervelde, Th	1.0	Permission Of Instructor
04267	EE 029414	ARR	Aeron, Shuchin	1.0	Permission Of Instructor
04268	EE 029415	ARR	Khan, Usman	0.0	Permission Of Instructor

EE 0296 MASTER'S THESIS

Guided research on a topic that has been approved as a suitable subject for a master's thesis. Credit as arranged.

Please see departmental website for specific details.

Sections

01545	EE 029602	ARR	Afsar, Mohammed	1.0	Permission Of Instructor
01546	EE 029603	ARR	Chang, Chornng H	1.0	Permission Of Instructor
01547	EE 029604	ARR	Hopwood, Jeffre	1.0	Permission Of Instructor
01548	EE 029605	ARR	Joyner, Valenci	1.0	Permission Of Instructor
01549	EE 029606	ARR	Lasser, Ron	1.0	Permission Of Instructor
01550	EE 029607	ARR	Miller, Eric	1.0	Permission Of Instructor
01551	EE 029608	ARR	Noonan, Joseph	1.0	Permission Of Instructor
01552	EE 029609	ARR	Panetta, Karen	1.0	Permission Of Instructor
01553	EE 029610	ARR	Preis, Douglas	1.0	Permission Of Instructor
01554	EE 029611	ARR	Sonkusale, Same	1.0	Permission Of Instructor
01555	EE 029612	ARR	Stankovic, Alek	1.0	Permission Of Instructor
01556	EE 029613	ARR	Vandervelde, Th	1.0	Permission Of Instructor
04270	EE 029614	ARR	Aeron, Shuchin	1.0	Permission Of Instructor
04272	EE 029615	ARR	Khan, Usman	1.0	Permission Of Instructor

EE 0298 DOCTORAL THESIS

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Sections

01557	EE 029802	ARR	Afsar, Mohammed	1.0	Permission Of Instructor
01558	EE 029803	ARR	Chang, Chornng H	1.0	Permission Of Instructor
01559	EE 029804	ARR	Hopwood, Jeffre	1.0	Permission Of Instructor
01560	EE 029805	ARR	Joyner, Valenci	1.0	Permission Of Instructor
01561	EE 029806	ARR	Lasser, Ron	1.0	Permission Of Instructor
01562	EE 029807	ARR	Miller, Eric	1.0	Permission Of Instructor
01563	EE 029808	ARR	Noonan, Joseph	1.0	Permission Of Instructor
01564	EE 029809	ARR	Panetta, Karen	1.0	Permission Of Instructor
01565	EE 029810	ARR	Preis, Douglas	1.0	Permission Of Instructor
01566	EE 029811	ARR	Sonkusale, Same	1.0	Permission Of Instructor
01567	EE 029812	ARR	Stankovic, Alek	1.0	Permission Of Instructor
01568	EE 029813	ARR	Vandervelde, Th	1.0	Permission Of Instructor
04274	EE 029814	ARR	Aeron, Shuchin	0.0	Permission Of Instructor
04276	EE 029815	ARR	Khan, Usman	1.0	Permission Of Instructor

EE 0401 MASTERS DEGREE CONT.

Part-time.

Please see departmental website for specific details.

Sections

01569	EE 0401PT	ARR		0.0	
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Electrical Engineering

EE 0402 MASTERS DEGREE CONT.

Full-time.

Please see departmental website for specific details.

Sections

01570	EE 0402FT	ARR	0.0
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EE 0501 DOCTORAL DEGREE CONT.

Part-time.

Please see departmental website for specific details.

Sections

01573	EE 0501PT	ARR	0.0
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EE 0502 DOCTORAL DEGREE CONT.

Full-time.

Please see departmental website for specific details.

Sections

01574	EE 0502FT	ARR	Staff	0.0
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Engineering Psychology

ENP 0120

PROJECT STUDY/HUMAN SYS

(Cross-listed as BME 120 and PSY 120.) A senior-level project design (capstone course), led by faculty from engineering and psychology as well as outside lecturers. Students participate in team fashion in human-factors design problems set by industry sponsors.

Professional-level work is required, including report preparation and presentations. Timely lectures supplement the projects. Spring.

Prerequisites: ENP 161, 162, PSY 31, 32, 130.

Sections

01774 ENP 012001 I+ Hannon, Daniel 1.0 C-1st Bme 120

ENP 0161

HUMAN FACTOR PROD DESIGN

(Cross-listed as BME 161.) Material relevant in consumer product design, biomedical engineering, architectural design, and machine design. Topics include design methodologies, user feedback techniques, performance measurements, sensory evaluation techniques, creative design, and prototyping. Extensive individual and group project design work. Emphasis on designing and creativity.

Prerequisites: EN 1, 2, ENP 61, PSY 31, 32, 53, and junior standing, or permission of instructor.

Sections

01775 ENP 016101 10+ Hannon, Daniel 1.0 C-1st Bme 161

ENP 0166

COMPUTER INTERFACE DESIG

(Cross-listed as BME 166.) This hands-on course challenges students to design computer-based products and systems that are easy to learn and use. Lectures cover the user interface-design process, basic design principles, and design evaluation methods. In-class exercises and projects reinforce the students' understanding of the lecture material and provide practical design experience. Students use computer-based prototyping tools to model and demonstrate their design solutions. Frequent guest lectures by user-interface design specialists from industry.

Prerequisites: EN 1, 2, and junior standing, or permission of instructor.

Sections

01777 ENP 016601 11+ Wiklund, Michae 1.0 C-1st Bme 166-01

ENP 0210

HUM FACTORS-MEDICAL SYST

Advanced topics in medical error analysis, user-centered medical technology design, product development and testing, FDA requirements, patenting, simulation, displays and controls, computerization, system implementation and maintenance, and product usability and accessibility.

Prerequisites: ENP 163

Sections

01778 ENP 021001 11+ Staff 1.0

ENP 0296

ENGINEERING PSY MASTER'S

Guided research on a topic that has been approved as a suitable subject for a master's thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01779 ENP 029601 ARR Hannon, Daniel 1.0-2.0 Advisor Approval

ENP 0401

MASTERS DEGREE CONT.

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01780 ENP 0401PT ARR Hannon, Daniel 0.0 Advisor Approval

ENP 0402

MASTERS DEGREE CONT.

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01781 ENP 0402FT ARR Hannon, Daniel 0.0 Advisor Approval

Engineering Science

ES 0002

INTRO TO COMPUTING IN EN

An introduction to engineering problem-solving with the aid of computational software. Emphasis upon efficient and accurate calculations, rudimentary numerical and data analysis methods including curve fitting, optimization, equation solving, computer calculus, and statistics. Examples drawn from a variety of engineering disciplines show the uses of iteration, number representation, arrays, modularization, and structured programming techniques. The characteristics of object-oriented programming, event-driven control, and graphical user interfaces are also explored.

Prerequisites: MATH 11, Co-requisite: MATH 12.

Sections

01798	ES 0002CE1	H+	Minardi, Lee R	1.0
01799	ES 0002LA	E+M	Minardi, Lee R	0.0
01800	ES 0002LB	G+M	Minardi, Lee R	0.0
01801	ES 0002LC	I+M	Minardi, Lee R	0.0
01802	ES 0002LD	D+T	Minardi, Lee R	0.0
01803	ES 0002LE	J+T	Minardi, Lee R	0.0
01804	ES 0002LF	L+T	Minardi, Lee R	0.0
01805	ES 0002LG	E+W	Minardi, Lee R	0.0
01806	ES 0002LH	G+W	Minardi, Lee R	0.0
01807	ES 0002LI	I+W	Minardi, Lee R	0.0
01808	ES 0002LJ	K+W	Minardi, Lee R	0.0
01809	ES 0002LK	M+W	Minardi, Lee R	0.0

INTRO COMPUTING - LAB L

04131	ES 0002LL	D+R	Minardi, Lee R	0.0
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ES 0004

INTRO DIGIT ELECT W/LAB

Number systems and their conversions. Boolean algebra and Karnaugh map minimizations of Boolean expressions. Logic gates. Analysis and design of combinational logic circuits. Characteristics of various flip-flops. Analysis and design of sequential logic circuits. Design of counter and shift register circuits. Various binary codes and code conversion circuits. Binary arithmetic and arithmetic circuits. Introduction to iterative design. Associated laboratory work. Spring.

Prerequisites: ES 3.

Sections

01810	ES 0004ECE	G+	Panetta, Karen	1.0	Pre-req Es 3
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ES 0007

THERMODYNAMICS

A course stressing the concepts and the laws of classical thermodynamics. Thermodynamics functions, first law, second law, properties of pure substances, availability and irreversibility. Emphasis is placed on applying the thermodynamic mode of reasoning.

Sections

01811	ES 0007AME	F+TR	Staff	1.0
01812	ES 0007BME	F+TR	Chiesa, Luisa	1.0

ES 0009

APP MECHANICS-STRNGTH

Analysis of stress and strain. Behavior of isotropic materials, theories of failure. Behavior of members subjected to axial, torsional, and flexural loadings, combined stress, Mohr's circle, compression members and columns.

Prerequisites: ES 5.

Sections

01813	ES 0009ACE	E+MW	Dorfmann, Luis	1.0	Also Reg For Either Es 9-ar Or Es 9-ar2
01814	ES 0009AR	FT	Dorfmann, Luis	0.0	Mandatory Recitation For Es 9-ace
01815	ES 0009AR2	QR	Dorfmann, Luis	0.0	Mandatory Recitation For Es 9-ace
01816	ES 0009BCE	D+	Sanayei, Masoud	1.0	Also Reg For Either Es 9-br Or Es 9-br2
01817	ES 0009BR	KM	Sanayei, Masoud	0.0	Mandatory Recitation For Es 9-bce
01818	ES 0009BR2	KW	Sanayei, Masoud	0.0	Mandatory Recitation For Es 9-bce

04132	ES 0009CCE	J+	Staff	0.0
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ES 0010

INTRO TO MATERIALS SCI

Structure of materials; chemical composition; phase transformations; properties of metals, ceramics, polymers, biopolymers, and related materials. Material selection in chemical and biological engineering applications.

Prerequisites: MATH 12, CHEM 1 or 16.

Sections

01819	ES 0010CHE	E+MW	Yi, Hyunmin	1.0
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ES 0027

PUBLIC HEALTH ENGINEER

(Cross-listed as ENV 0027). An introduction to public health engineering. Elements of waterborne disease control, hazardous materials management, occupational health and safety, and environmental interventions. Applications to environmental engineering and environmental engineering science.

Sections

01820	ES 0027CEE	G+	Gute, David M.	1.0	C-1st Env 27
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ES 0056

RECITATION

Application of the concepts of probability and statistics to problem solving in engineering systems. Topics include data reduction techniques, probability, probability distribution functions, error propagation, sampling distributions, estimation, hypothesis testing, simple comparative experiments, and linear regression. Examples are drawn from a variety of disciplines, including the environment, materials, manufacturing, computing, and process design.

Prerequisites: MATH 13

Sections

01821	ES 0056AR	JR	Baise, Laurie	0.0
01822	ES 0056BR	EF	Baise, Laurie	0.0
01823	ES 0056CE	E+MW	Baise, Laurie	1.0

ES 0088

CAD FOR ENGINEERS

Two-and three-dimensional geometric modeling with computer-aided design (CAD) systems. The use of CAD technology for the design and analysis of civil structures and mechanical assemblies. Topics covered include; creating engineering drawings from CAD models, digital terrain modeling, parametric feature-based solid modeling, constraint-based assembly modeling, spline technology and the modeling of sculptured surfaces, CAD photorealism, and animation for engineering applications.

Prerequisites: EN 2 or equivalent

Sections

01824	ES 0088CAD	L+	Minardi, Lee R	1.0	Preq: En 2
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ES 0095

ELEC MUS INST DESIGN

(Cross-listed as MUS 66). Non-standard electronic musical instruments or "controllers," incorporating sensors that respond to touch, position, movement, finger pressure, wind pressure, and other human factors, and their translation to Musical Instrument Digital Interface (MIDI) data. Designing and building original systems using common materials and object-oriented music-specific programming languages and software-based synthesis. Students will complete several creative projects using music hardware and software.

Prerequisites: Experience in one or more of the following--electronic music, electronic prototyping, mechanical engineering, computer programming.

Sections

01825	ES 0095ME	G+	Lehrman, Paul D	1.0	Meets Robinson Hall, c-1st Mus 66
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**Course Listings
Spring 2012**

English

NOTE: Register for English 1-99 when all English 1 sections are filled. Register for English 2-99 when all English 2 sections are filled. English 1 and English 2 are prerequisites for all upper level English courses, (ENG 5 - ENG 199).

**ENG 0001
EXPOSITORY WRITING**

A study of the principles of effective written communication as a foundation for humane learning. Intensive practice in writing various types of expository prose, especially analysis and persuasion. Essays by authors such as Bronowski, Cleaver, Mary McCarthy, Mailer, Orwell, and Thoreau will be examined chiefly as models of the range and versatility of standard written English.

Sections

01602	ENG 000101	L+	Sneff, Priscill	1.0
01603	ENG 000102	G+	Beckman, Carl W	1.0
01604	ENG 000103	B+TR	Bennett, Kriste	1.0

**ENG 0002
FRESHMAN WRITING SEMINAR**

Varying seminar topics allow the student to choose among readings and approaches to writing in special fields of interest. Choices have recently allowed students to focus on such subjects as topics in American society, literary analysis, film, journalism, politics, and the environment. Seminars to be offered in a semester are announced in advance. Offered both semesters.

Prerequisites: Either ENG 1 or ENG 3, or advanced placement standing of 4.

Sections

01605	ENG 000201	A+	Hasselbach, Sar	1.0	Other Worlds
01606	ENG 000202	A+	Warburton, Andr	1.0	Conformity And Rebellion
01607	ENG 000203	A+	O'dell, Jackie	1.0	Differences
01608	ENG 000204	B+TR	Nelson, Matthew	1.0	Love & Sexuality
01609	ENG 000205	B+TR	Millan, Diego	1.0	Other Worlds
01610	ENG 000206	B+TR	Freitas, Vivek	1.0	Differences
01611	ENG 000207	C	Todd, Ian	1.0	Love And Sexuality
03809	ENG 000209	C	Mulder, James	1.0	Family Ties
01613	ENG 000210	C	Hildebrand, Mol	1.0	Conformity And Rebellion
01614	ENG 000211	C	Toogood, Michae	1.0	Differences
01615	ENG 000212	C	Staff	1.0	Tbd
01616	ENG 000213	D+	Macdonald, Wand	1.0	Family Ties
03810	ENG 000214	D+	Crane, Jacob	1.0	Other Worlds
01617	ENG 000215	D+	Goze, Gulfer	1.0	Differences
01618	ENG 000216	E+MW	Valdes Greenwoo	1.0	Love & Sexuality
01619	ENG 000217	E+MW	Bosch, Daniel	1.0	Other Worlds
01620	ENG 000218	E+MW	Carlisle, Susan	1.0	Differences
01621	ENG 000219	F+TR	Leavell, Elizab	1.0	Other Worlds
01622	ENG 000220	F+TR	Van Deventer, A	1.0	Road Stories
03811	ENG 000221	G+	Stiffler, Randa	1.0	Conformity & Rebellion
01623	ENG 000222	G+	Kaufman, Mark	1.0	Other Worlds
01624	ENG 000223	H+	Karlins, Mark D	1.0	Conformity And Rebellion
01625	ENG 000224	H+	Staff	1.0	Tbd
01626	ENG 000225	I+	Sandler, Erin	1.0	Other Worlds
01627	ENG 000226	I+	Staff	1.0	Tbd
01629	ENG 000228	J+	Levine, Stephan	1.0	Differences
01630	ENG 000229	J+	Wilkinson, Caro	1.0	Family Ties
01631	ENG 000230	K+	Staff	1.0	Tbd
01632	ENG 000231	L+	Croteau, Jennif	1.0	Family Ties
01633	ENG 000232	L+	Redmond, Charle	1.0	Other Worlds
01634	ENG 000233	L+	Staff	1.0	Tbd
01635	ENG 000234	N+	Mastraccio, Car	1.0	Love And Sexuality
03812	ENG 000235	M+	Plunkett, Marti	1.0	Differences

**ENG 0004
WRITING SEMINAR**

A course designed to provide intensive practice in reading and writing about literature for students whose native language is not English. Fulfills one semester of the College Writing Requirement. May be counted as a humanities credit for students in the School of Engineering. Offered second semester only.

Prerequisites: ENG 3 and permission of instructor.

Sections

01638	ENG 000401	F+TR	Stevens, Lynn	1.0	Family Ties
01639	ENG 000402	J+	Stevens, Lynn	1.0	Family Ties
03813	ENG 000403	J+	Spellmire, Adam	1.0	Other Worlds

**ENG 0005
CREATIVE WRITING:FICTION**

A course open to all interested students who want practice and instruction in a workshop situation. Open to all who have satisfied the College Writing Requirement. Each section is limited to twelve students.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

01641	ENG 000501	I+	Downing, Michae	1.0	Completion Of College Writing Requirement
01642	ENG 000502	8	Hershman, Marci	1.0	Completion Of College Writing Requirement
01643	ENG 000503	F+TR	Hershman, Marci	1.0	Completion Of College Writing Requirement
01644	ENG 000504	6	Hurka, Joseph H	1.0	Completion Of College Writing Requirement
01645	ENG 000505	11	Hurka, Joseph H	1.0	Completion Of College Writing Requirement
01646	ENG 000506	1+	Johnston, Sybil	1.0	Completion Of College Writing Requirement
01647	ENG 000507	6+	Johnston, Sybil	1.0	Completion Of College Writing Requirement
01648	ENG 000508	5	Weesner, Ted Jr	1.0	Completion Of College Writing Requirement
01649	ENG 000509	11	Weesner, Ted Jr	1.0	Completion Of College Writing Requirement
01650	ENG 000510	J+	Levinson, Nan	1.0	Completion Of College Writing Requirement

**ENG 0006
CREATIVE WRITING:POETRY**

A course open to all interested students who want practice and instruction in a poetry workshop situation. Open to all who have satisfied the College Writing Requirement. Each section limited to ten students.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

01651	ENG 000601	0	Gibson, Rebecca	1.0	Completion Of College Writing Requirement
01652	ENG 000602	1	Gibson, Rebecca	1.0	Completion Of College Writing Requirement
01653	ENG 000603	11+	Gosztyla, Mark	1.0	Completion Of College Writing Requirement
03831	ENG 000604	7+	Gosztyla, Mark	1.0	Completion Of College Writing Requirement

**ENG 0007
CREATIVE WRITING:JOURNAL**

A course open to all interested students who want practice and instruction in journalism in a workshop situation. Open to all who have completed the College Writing Requirement. Each section is limited to fifteen students.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

01654	ENG 000701	E+MW	Miller, Neil	1.0	Completion Of College Writing Requirement
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English

01655 ENG 000702 G+ Miller, Neil 1.0 Completion Of College Writing Requirement

**ENG 0009
WRITING FICTION:INTERMED**

A middle-level workshop in the writing of fiction.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement and ENG 5 (fiction) or permission of instructor.

Sections

01656 ENG 000901 G+ Strong, Jonatha 1.0 Completion Of College Writing Requirement; Eng 5
01657 ENG 000902 K+ Strong, Jonatha 1.0 Completion Of College Writing Requirement; Eng 5

**ENG 0010
NON-FICTION WRITING**

Intensive practice and critical guidance in writing effective prose. Emphasis on weekly papers and on class discussions of student work, but with some reading and study of classical rhetoric. Opportunities to write papers on subjects in fields of personal and academic interest. Open to all who have satisfied the College Writing Requirement.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

01658 ENG 001001 E+MW Ullman, Michael 1.0 Completion Of College Writing Requirement

**ENG 0011
INTERMEDIATE JOURNALISM**

Intensive practice and critical guidance in journalistic writing. Emphasis on weekly papers and on class discussion of student work, but with some reading and study of classical rhetoric. Opportunities to write papers on subjects in fields of personal and academic interest. Open to all who have satisfied the College Writing Requirement.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

01659 ENG 001101 H+ Levinson, Nan 1.0 Completion Of College Writing Requirement

**ENG 0013
WRITING FICTION:ADVANCED**

More advanced than ENG 5, this course is for people who have already taken a creative writing course or who have written a fair amount of fiction on their own.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement and two (2) Fiction writing courses at any level or permission of instructor.

Sections

01660 ENG 001301 5+ Wilson, Jonatha 1.0 Completion Of College Writing Requirement; Eng 5,9

**ENG 0016
FORMS OF POETRY**

Members of this course will meet twice a week for discussion of their poems and of how poems are written. Enrollment limited.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement and permission of instructor.

Sections

01661 ENG 001601 10+ Peterson, K 1.0 Completion Of College Writing Requirement; Eng 6

**ENG 0017
THE POEM**

An introduction to the reading of poetry in English and poetry translated into English, with special attention to the variety of means employed and ends achieved. The course is designed for the beginning English major, the nonmajor, and anyone else interested in the relationship between poetry and experience. Requirements include short analytic papers, imitations, poems, and the compilation of anthologies of poetry.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

03832 ENG 001701 6+ Peterson, K 1.0 Completion Of The College Writing Requirement

**ENG 0020
BLACK WORLD LIT**

Fiction, poetry, and drama written principally in English by black writers from Africa, the Caribbean, and South America. Relation of modern black writing to African folk literature, classical Greek drama, European existentialism, and other contexts. Attention to specific geographical areas illustrating the transition from traditional tribal values and forms of expression to the attempted accommodations to colonialism and industrialism. All works are read in English.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

03833 ENG 002001 E+MW Sharpe, Christi 1.0 Completion Of College Writing Requirement

**ENG 0022
GEN VIEW OF ENG LIT II**

An introductory survey of English literature from the eighteenth into the twentieth century, with attention to selected works by Scottish and Irish writers as well. Focuses on the historical development of literature in England and on foundational skills of critical reading and writing. One of the gateway courses to the major.

Sections

01662 ENG 002201 I+ Hofkosh, Sonia 1.0 Completion Of College Writing Requirement

**ENG 0032
EPIC STRAIN**

A selective study of the development of the epic, from classical models to contemporary remodelings. Authors whose works we may read include Homer, Virgil, Milton, Fielding, Rushdie, Marilynne Robinson, and Walcott.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

03814 ENG 003201 H+ Genster, Julia 1.0 Completion Of College Writing Requirement

**ENG 0034
THE NATURE OF GOTHIC**

A study of Gothic literature haunted by paradigms from ancient Greek mythology and drama, the Bible, European medieval architecture and its nineteenth-century revivals. Readings will vary from year to year and will cross national boundaries; nineteenth- and twentieth-century British writing will be regarded in the light (and shadow) of the Book of Genesis; Milton's Paradise Lost; the aesthetic, social, and psychological criticism of Burke, Ruskin, and Freud.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

03815 ENG 003401 5 Emerson, Sheila 1.0 Completion Of College Writing Requirement

English

**ENG 0037
20TH C AFRICAN AMER LIT**

A treatment of works by fiction writers, poets, playwrights, theorists, and critics, including W.E.B. Dubois, Zora Neale Hurston, Richard Wright, Gwendolyn Brooks, Amiri Baraka, Robert Hayden, Maya Angelou, Adrienne Kennedy, Toni Morrison, Gayl Jones, and Rita Dove.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

01663	ENG 003701	D+	Clytus, Radicla	1.0	Completion Of College Writing Requirement
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**ENG 0046
GIRLS' BOOKS**

Introductory course on relationship between nineteenth, twentieth and twenty-first century novels, films and guides for girls and the changing constructions of the female subject. Topics include domesticity, sexuality, ethnicity, fantasy, and censorship. Readings may include works by Louisa May Alcott, Frances Hodgson Burnett, Carolyn Keene, Louise Fitzhugh, Judy Blume, Katherine Paterson, Angela Johnson, Francesca Block, Carol Gilligan, and Michel Foucault.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

03816	ENG 004601	J+	Genster, Julia	1.0	Completion Of College Writing Requirement
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**ENG 0050
SHAKESPEARE I**

This course carefully examines eight or nine of Shakespeare's plays, both early and late. Although the plays are considered in a variety of historical and theoretical contexts, the primary focus is on a close reading of the texts. The same plays will not be read in both 50 and 51.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

03817	ENG 005001	E+MW	Dunn, Kevin	1.0	Completion Of College Writing Requirement
03818	ENG 0050R	11	Dunn, Kevin	1.0	Completion Of College Writing Requirement

**ENG 0064
AMER FICTION 1950-PRES**

An exploration of the American literary and cultural landscape since World War II. Readings will likely include representative works by Ralph Ellison, Saul Bellow, Grace Paley, Cynthia Ozick, Tim O'Brien, Toni Morrison, Raymond Carver, and others.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

01665	ENG 006401	H+	Johnson, Ronna	1.0	Completion Of College Writing Requirement
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**ENG 0074
JAZZ AGE**

Introduction to the literary culture of the Jazz Age, a vibrant epoch in US literary history. Readings include selections from poems of T. S. Eliot, Ezra Pound, Wallace Stevens, Hart Crane, Dorothy Parker, Edna St. Vincent Millay, Langston Hughes; selections from plays of Elmer Rice and Eugene O'Neill; and selections from novels and short stories of Faulkner, Fitzgerald, Hemingway, Toomer and Cather.

Prerequisites: ENG 1 & 2 or equivalent

Sections

03819	ENG 007401	G+	Takayoshi, Ichi	1.0	Completion Of College Writing Requirement
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**ENG 0084
BLACK COMEDY**

Introductory course on relations between comedy and cruelty, laughter and shame, pleasure and fear, escapism and insult. Examples drawn mainly from film, but also from fiction, theater, and television. Primary focus not on race, but some attention to black comedy as comedy by African Americans.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

03820	ENG 008401	G+	Litvak, Joseph	1.0	Completion Of College Writing Requirement
03821	ENG 0084R	11+	Litvak, Joseph	1.0	Completion Of College Writing Requirement

**ENG 0092
TOP IN LIT & CULTURE**

Courses offered on an ad hoc basis and open to all interested undergraduates.

Please see departmental website for specific details:
<http://ase.tufts.edu/english/>

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement.

Sections

WRITING IN THE BEAT GENE

03822	ENG 009201	ARR	Johnson, Ronna	1.0	Completion Of College Writing Requirement;w 4:30-7:15
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**ENG 0107
CHAUCER**

A study of the most influential medieval English poet, who is also one of the greatest in our literature. Close reading of Troilus and Criseyde and the Canterbury Tales.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

01668	ENG 010701	E+MW	Fyler, John M.	1.0	Completion Of College Writing Requirement
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**ENG 0108
VIRGIL AND DANTE**

Close reading of two major texts in the European literary tradition, Virgil's Aeneid and Dante's Commedia, with some attention to their influence on English and American literature.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

03823	ENG 010801	I+	Fyler, John M.	1.0	Completion Of College Writing Requirement
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**ENG 0110
THE RENAISS IN ENGLAND**

A study of the nondramatic literature of the English Renaissance and its continental backgrounds. May include readings by More, Erasmus, Castiglione, Wyatt, Surrey, Philip and Mary Sidney, Marlowe, Shakespeare, Greville, Queen Elizabeth, Labe, and Spenser. An exploration of the conflicting responses to the new possibilities (political, religious, social, sexual, and literary) that presented themselves during this period.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

03824	ENG 011001	G+	Haber, Judith D	1.0	Completion Of College Writing Requirement
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English

**ENG 0131
BRITISH MODERNISM**

Studies in British literature from the end of the 19th century through the start of the Second World War with a focus on shifting conceptualizations of the modern. Works by authors including Conrad, Kipling, Yeats, Joyce, Mansfield, Woolf, Macaulay, Eliot, Lawrence, Beckett.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

03826	ENG 013101	H+	Lurz, John	1.0	Completion Of College Writing Requirement
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**ENG 0149
AMER LIT 1620-1815**

The evolution of the American literary tradition from the Puritans to the Federalists, studied in relation to the culture of early America. Emphasis on Edward Taylor, Jonathan Edwards, Benjamin Franklin, the writers of the Revolution, and early dramatists and novelists.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

01671	ENG 014901	E+MW	Rosenmeier, Jes	1.0	Completion Of College Writing Requirement
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**ENG 0153
AMERICAN REALISM**

Selected fiction by writers such as Zitkala Sa, Dubois, Howells, James, Sui sin Far, Chestnutt, Chopin, Harper, and Wharton in the period from 1880 to 1920 with some attention to the cultural milieu that fostered these authors, including increases in immigration, the debate about feminism, the spread of poverty, and the values of laissez-faire capitalism.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20, 21, 22, or 23.

Sections

03827	ENG 015301	7	Ammons, Elizabe	1.0	Completion Of College Writing Requirement
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**ENG 0160
ENV JUSTICE & U.S. LIT**

(Cross-listed as ENV 160 and PJS 160). An examination of contemporary multicultural U.S. literature in relation to environmental justice concerns. Works by Helena María Viramontes, Gloria Naylor, Karen Tei Yamashita, Simon Ortiz, Annie Proulx, with particular attention to issues of environmental racism, ecofeminism, homophobia and the social construction of nature, U.S. environmental imperialism, and urban ecologies. Emphasis on the role of literature and the arts in social change, including practical strategies for activism.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

01673	ENG 016001	D+	Ammons, Elizabe	1.0	C-1st Env 160-01, Pjs0150-05, College Writing Re
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**ENG 0161
MEMORY FOR FORGETTING**

Advanced seminar in the relation among memory, forgetting, and trauma. Focus on North American slavery, the Holocaust, and South African apartheid. Read and view critical and theoretical work, fiction, nonfiction, visual arts, and film including: Art Spiegelman's Maus, Charlotte Delbo's Auschwitz and After, Frederick Douglass' My Bondage and My Freedom, Toni Morrison's Beloved, James Baldwin's The Fire Next Time, Steve Biko's I Write What I Like, the documentary film Paragraph 175, and the work of William Kentridge and Kara Walker.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

03828	ENG 016101	5	Sharpe, Christi	1.0	Completion Of College Writing Requirement
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**ENG 0163
SPEAK, MEMORY: CNTP MEMOIR**

Memoirs and other texts by contemporary American writers including Jamaica Kincaid, Kathryn Harrison, Nick Hornby, Philip Roth, Susanna Kaysen and Art Spiegelman. Comparisons of fiction and memoir that cover the same experiential territory.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

01675	ENG 016301	F+TR	Freedman-bellow	1.0	Completion Of College Writing Requirement
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**ENG 0172
WAR & AMERICAN VALUES**

(Cross-listed as PJS 172). Seminar on the relation of war to US culture and society. What values are Americans defending? What are they defending them against? In what respects are they vulnerable? The class will consider these questions through close analysis of literary texts, images, cultural criticism, political and military documents, and religious texts.

Prerequisites: ENG 1 & 2 or equivalent

Sections

03829	ENG 017201	K+	Takayoshi, Ichi	1.0	Completion Of College Writing Requirement
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**ENG 0177
FEMINISM, LIT, THEORY**

Readings in feminist approaches to questions of gender, representation, and difference from Wollstonecraft to contemporary theory, including literary, psychoanalytic, social, sexuality, and critical race studies.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

04543	ENG 017701	E+MW	Hofkosh, Sonia	1.0	Completion Of College Writing Requirement
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**ENG 0186
HOW FILMS THINK**

Advanced seminar exploring the languages of cinematic representation. Attention to visual logic and the relation between techniques of cinematic rhetoric (montage, the long take, shot/reverse shot) and the effect of cinematic "thought." Close study of films by directors such as Welles, Scorsese, Coppola, Tarantino, and Lynch; additional attention to recent work in film studies and cinema theory.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

English

03830 ENG 018601 E+MW Edelman, Lee C 1.0 Completion Of College Writing Requirement

ENG 0192 SEMINAR IN ENGLISH

Courses offered on an ad hoc basis and open to graduate and advanced undergraduate students. Recent topics have included Swift and Fielding, the Shelleys, representing the Holocaust, the nature of Gothic, satire, Whitman and Dickinson, Black filmmakers, and American experimental fiction.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

DICKENS & COMPANY

01680 ENG 019201 7 Genster, Julia 1.0 Completion Of College Writing Requirement - Dickens An

IMAGINING HAITI

01681 ENG 019202 2 Staff 1.0 Completion Of College Writing Requirement

ENG 0194 SPECIAL TOPICS

Guided individual study of an approved topic. Before pursuing such study, the student is normally expected to have taken the department's regular courses on the topic. Credit as arranged; only two such courses may be counted toward the major.

Please see departmental website for specific details.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20, 21, 22, or 23. Permission of instructor.

Sections

01683	ENG 019401	ARR	Hofkosh, Sonia	1.0	Permission Of Instructor
01684	ENG 019402	ARR	Wilson, Jonatha	1.0	Permission Of Instructor
01685	ENG 019403	ARR	Sharpe, Christi	1.0	Permission Of Instructor
01686	ENG 019404	ARR	Clytus, Radicla	1.0	Permission Of Instructor
01687	ENG 019405	ARR	Dunn, Kevin	1.0	Permission Of Instructor
01688	ENG 019406	ARR	Edelman, Lee C	1.0	Permission Of Instructor
01689	ENG 019407	ARR	Haber, Judith D	1.0	Permission Of Instructor
01690	ENG 019408	ARR	Takayoshi, Ichi	1.0	Permission Of Instructor
01691	ENG 019409	ARR	Fyler, John M.	1.0	Permission Of Instructor
01692	ENG 019410	ARR	Bamber, Linda V	1.0	Permission Of Instructor
01693	ENG 019411	ARR	Ammons, Elizabe	1.0	Permission Of Instructor
01694	ENG 019412	ARR	Litvak, Joseph	1.0	Permission Of Instructor
01695	ENG 019413	ARR	Cantor, Alfred	1.0	Permission Of Instructor
01696	ENG 019414	ARR	Roy, Modhumita	1.0	Permission Of Instructor
01697	ENG 019415	ARR	Lurz, John	1.0	Permission Of Instructor
01698	ENG 019416	ARR	Ullman, Michael	1.0	Permission Of Instructor
01699	ENG 019417	ARR	Peterson, Katie	1.0	Permission Of Instructor

ENG 0199 SENIOR HONORS THESIS

Senior Honors Thesis.

Please see departmental website for specific details.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23. Permission of instructor and a favorable vote by the Department of English.

Sections

01717	ENG 019901	ARR	Cantor, Alfred	1.0	Permission Of Instructor
01718	ENG 019902	ARR	Wilson, Jonatha	1.0	Permission Of Instructor
01719	ENG 019903	ARR	Ammons, Elizabe	1.0	Permission Of Instructor
01720	ENG 019904	ARR	Lurz, John	1.0	Permission Of Instructor
01721	ENG 019905	ARR	Sharpe, Christi	1.0	Permission Of Instructor
01722	ENG 019906	ARR	Fyler, John M.	1.0	Permission Of Instructor
01723	ENG 019907	ARR	Takayoshi, Ichi	1.0	Permission Of Instructor
01724	ENG 019908	ARR	Bamber, Linda V	1.0	Permission Of Instructor
01725	ENG 019909	ARR	Clytus, Radicla	1.0	Permission Of Instructor
01726	ENG 019910	ARR	Dunn, Kevin	1.0	Permission Of Instructor
01727	ENG 019911	ARR	Edelman, Lee C	1.0	Permission Of Instructor
01728	ENG 019912	ARR	Haber, Judith D	1.0	Permission Of Instructor
01729	ENG 019913	ARR	Hofkosh, Sonia	1.0	Permission Of Instructor
01730	ENG 019914	ARR	Litvak, Joseph	1.0	Permission Of Instructor
01731	ENG 019915	ARR	Roy, Modhumita	1.0	Permission Of Instructor
01732	ENG 019916	ARR	Ullman, Michael	1.0	Permission Of Instructor
01733	ENG 019917	ARR	Peterson, Katie	1.0	Permission Of Instructor

ENG 0292 GRADUATE SEMINAR

Advanced courses for graduate students only. Recent seminar topics have included Burney and Austen, Troilus and Criseyde, literary theory, postcolonial fiction, the Renaissance, and American women writers.

Please see departmental website for specific details.

Prerequisites: Standing as a graduate student in the Tufts English Department, or permission of the instructor.

Sections

THE LITERATURE OF ADVICE

01735 ENG 029201 6+ Dunn, Kevin 1.0 Grad Stand In Tufts Eng Or Permission Of Inst

THE LANGUAGE OF THEORY

01736 ENG 029202 7+ Edelman, Lee C 1.0 Grad Stand In Tufts Eng Or Permission Of Inst

ART AND LITERATURE

01737 ENG 029203 8+ Clytus, Radicla 1.0 Grad Stand In Tufts Eng Or Permission Of Inst

COLLOQUIUM

04141 ENG 029206 ARR Haber, Judith D 0.5 Grad Stand In Tufts Eng Only

MA EXAMINATION

04142 ENG 029207 ARR Haber, Judith D 1.0 Gard Stand In Tufts Eng

English

**ENG 0294
SPECIAL TOPICS**

Guided individual study of an approved topic. Before pursuing such study, the student is normally expected to have taken the department's regular courses on the topic. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Graduate Level. Permission of instructor.

Sections

01739	ENG 029401	ARR	Dunn, Kevin	1.0	Permission Of Instructor
01740	ENG 029402	ARR	Roy, Modhumita	1.0	Permission Of Instructor
01741	ENG 029403	ARR	Edelman, Lee C	1.0	Permission Of Instructor
01742	ENG 029404	ARR	Ammons, Elizabe	1.0	Permission Of Instructor
01743	ENG 029405	ARR	Haber, Judith D	1.0	Permission Of Instructor
01744	ENG 029406	ARR	Hofkosh, Sonia	1.0	Permission Of Instructor
01745	ENG 029407	ARR	Litvak, Joseph	1.0	Permission Of Instructor
01746	ENG 029408	ARR	Bamber, Linda V	1.0	Permission Of Instructor
01747	ENG 029409	ARR	Cantor, Alfred	1.0	Permission Of Instructor
01748	ENG 029410	ARR	Clytus, Radicla	1.0	Permission Of Instructor
01749	ENG 029411	ARR	Fyler, John M.	1.0	Permission Of Instructor
01750	ENG 029412	ARR	Sharpe, Christi	1.0	Permission Of Instructor
01751	ENG 029413	ARR	Wilson, Jonatha	1.0	Permission Of Instructor
01752	ENG 029414	ARR	Takayoshi, Ichi	1.0	Permission Of Instructor
01753	ENG 029415	ARR	Ullman, Michael	1.0	Permission Of Instructor
01754	ENG 029416	ARR	Lurz, John	1.0	Permission Of Instructor
01755	ENG 029417	ARR	Peterson, Katie	1.0	Permission Of Instructor

**ENG 0298
GRADUATE RESEARCH**

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Graduate Level.

Sections

01757	ENG 029801	ARR	Haber, Judith D	1.0
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**ENG 0401
MASTERS DEGREE CONT.**

Part-time.

Please see departmental website for specific details.

Prerequisites: Graduate Level.

Sections

01767	ENG 0401PT	ARR	Staff	0.0
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**ENG 0402
MASTERS DEGREE CONT.**

Full-time.

Please see departmental website for specific details.

Prerequisites: Graduate Level.

Sections

01768	ENG 0402FT	ARR	Staff	0.0
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**ENG 0501
DOCTORAL DEGREE CONT.**

Part-time.

Please see departmental website for specific details.

Prerequisites: Graduate Level.

Sections

01771	ENG 0501PT	ARR	Staff	0.0
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**ENG 0502
DOCTORAL DEGREE CONT.**

Full-time.

Please see departmental website for specific details.

Prerequisites: Graduate Level.

Sections

01772	ENG 0502FT	ARR	Staff	0.0
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Entrepreneurial Leadership

ELS 0101

ENTREPRENEURSHIP&BUS PLN

This course focuses on investigating, understanding, and implementing the process of founding a start-up firm. Elements of searching out new venture opportunities, matching skills with a new venture, financing, competitive strategy, intellectual property, and operating a new venture will be explored. The focus of the course will be the development and presentation of a business plan created by teams of students with various academic backgrounds.

Sections

01575	ELS 010101	1+	Staff	1.0	Soph Stand/perm
01576	ELS 010102	7+	Staff	1.0	Sophomore Standing

ELS 0199

ENTREPRENEURIAL FLDSTDY

This course enables students to apply the learning and skills acquired by other courses on entrepreneurship. Students have the option of starting a new business based on an actual business plan or consulting in an actual start-up operation. Students who select the new business option will be expected to submit a project-scope paper that outlines the elements of the launch that could be accomplished within the term limits.

Sections

01586	ELS 019901	ARR	Hodgman, John	1.0	Permission Of Faculty And Els 101
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ELS 0103

ENTREPRENEURIAL FINANCE

This course focuses on understanding how to construct the data and find appropriate financing for a startup venture. Various forms of financing are introduced: vendor financing, factoring, etc. Through a medley of tests, case studies, and team exercises, students exercise basic financial skills such financial statement formulation, NPV analysis and scenario analysis. The course focuses as much attention on how to reject a bad idea as support a good one.

Sections

01578	ELS 010301	10+	Wilmot, Richard	1.0	Els 101
01579	ELS 010302	5+	Dew, Robert	1.0	Els 101

ELS 0105

ENTREPRENEURIAL MKTG

This course focuses on institutional and product marketing methods used by start-up to medium-sized companies. After an overview of basic marketing principles, the course will cover the spectrum from day-to-day marketing activities of the entrepreneurial business to positioning and strategy. Students will learn to analyze, formulate, and implement marketing strategies, explore concepts for understanding customer behavior and creating entrepreneurial marketing strategy, and learn the fundamentals of market research, pricing, and reaching and selling to customers.

Sections

01580	ELS 010501	7+	Derby, John	1.0	Els 101
01581	ELS 010502	10+	Finn, Gavin A.	1.0	Els 101

ELS 0107

ENTREPRENEURIAL LEADERSH

This course is designed to help students develop the knowledge, confidence, skills, and self-image necessary to pursue entrepreneurial ventures in such domains as business, government, and public service. It provides a foundation in the fundamentals of entrepreneurial leadership, as well as a source of inspiration and energy in the art and science of taking visions and bringing them to reality.

Sections

01582	ELS 010701	11+	Halpern, Jeremy	1.0	Els 101
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ELS 0194

SPECIAL TOPICS

Special Topics.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

01585	ELS 019401	ARR	Hodgman, John	1.0	Permission Of Inst And Els 101
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Environmental Studies

ENV 0010 PLANTS & HUMANITY

(Cross-listed as BIO 10.) Principles of botany accenting economic aspects and multicultural implications of plants, their medicinal products, crop potential, and biodiversity. Emphasis placed on global aspects of this dynamic science, with selected topics on acid rain, deforestation, biotechnology, and other applications. Also covered are medicinal, poisonous, and psychoactive species, as well as nutritional sources from seaweeds and mushrooms to mangos and durians. Three lectures. Spring.

Sections

01782 ENV 001001 C Ellmore, George 1.0 C-1st Bio 10-01

ENV 0027 PUBLIC HEALTH ENGINEER

(Cross-listed as ES 27.) An introduction to public health engineering. Elements of waterborne disease control, hazardous materials management, occupational health and safety, and environmental interventions. Applications to environmental engineering and environmental engineering science.

Sections

01783 ENV 002701 G+ Gute, David M. 1.0 C-1st Es 27-cee

ENV 0030 ENVIRONMENTAL ECONOMICS

(Cross-listed as EC 30.) An examination of the uses and limitations of economic analysis in dealing with many of the environmental concerns of our society. Public policies concerning the environment will be evaluated as to their ability to meet certain economic criteria.

Sections

01784 ENV 003001 J+ Gnedenko, Ekate 1.0 Ec 1 Or 5, C-1st Ec 30-01
04067 ENV 003002 J+ Gnedenko, Ekate 1.0 Prereq:ec 5;c-list Ec 30

ENV 0054 FUNDAMENTAL EPIDEMIOLOGY

(Cross-listed as CH 54 and CEE 54.) A single course which provides students an introduction to epidemiologic techniques and analyses, including such topics as incidence and prevalence, age adjustment, and other techniques appropriate for the handling of confounders, the measurement of risk through the odds ratio and relative risk, and the interpretation of epidemiologic results. The course will feature applications of epidemiologic techniques to topics appropriate for public and community health applications such as those found in infectious disease control, screening for personal risk factors, and the conducting of disease cluster evaluations.

Sections

01785 ENV 005401 H+ Woodin, Mark A 1.0 C-1st W/ce & Ch 54

ENV 0070 INTRO HAZARD MAT MANGMNT

(Cross-listed as CEE 70.) A survey of technology, health, and policy issues in hazardous materials and hazardous waste management. Topics will be examined from a scientific and technological perspective and will include characteristics of hazardous materials; health effects; hazard, exposure, and risk assessment; regulatory framework; distribution of contaminants in the environment; and an overview of remedial technologies used to clean up hazardous waste.

Prerequisites: CHEM 1 or 16, ES 11 or BIO 13, and CEE 1 or CEE 32

Sections

01786 ENV 007001 E+MW Desmarais, Anne 1.0 C-1st Ce 70

ENV 0094 ENV POLICY, PLAN & POLITICS

(Cross-listed as UEP 94.) Please see departmental website for detailed information.

Sections

01787 ENV 009401 H+ Russell, Robert 1.0 C-1st Uep 94-01*

ENV 0095 SPECIAL TOPICS

Please see departmental website for specific details.

Sections

TOPICS IN ENV STUDIES

04595 ENV 009501 F+TR Orians, Colin 0.5

ENV 0099 ENV INTERNSHIP

A period of service with an organization, either public or private, concerned with environmental engineering, research, protection, modification, legislation, or education. Required of all majors in the program, internship proposals must first be approved by track adviser or director. Many academic semester and summer internships are available. Adviser-approved participation in field courses and fieldwork, both at Tufts and elsewhere, may be substituted for this requirement. No credit. Completion noted on transcript.

Prerequisites: Permission of Instructor.

Sections

01788 ENV 009901 Ellmore, George 0.0 Permission Of Instructor

ENV 0103 WATER QUALITY MODELING

(Cross-listed as CEE 103.) The application of mathematical models to the study of water quality in rivers, lakes, and estuaries. Topics include transport, temperature, dissolved oxygen, eutrophication, chemical equilibrium, pathogen, and toxics modeling. Model calibration and corroboration, parameter estimation, analytical and numerical solutions.

Prerequisites: MATH 38 and CEE 32, or equivalent

Sections

01789 ENV 010301 Chapra, Stephen 1.0

ENV 0130 ANIMAL BEHAVIOR

(Cross-listed as BIO 130.) An examination of ethological theory: the development of behavior, orientation, migration, communication, and social behavior. Particular emphasis will be placed on the functioning of animal societies.

Prerequisites: BIO 13 and 14, or equivalent.

Sections

01790 ENV 013001 B Starks, Philip 1.0 C-1st Bio 130

ENV 0160 ENV JUSTICE & U.S. LIT

(Cross-listed as ENG 160 and PJS 160.) An examination of contemporary multicultural U.S. literature in relation to environmental justice concerns. Works by Helena María Viramontes, Gloria Naylor, Karen Tei Yamashita, Simon Ortiz, Annie Proulx, with particular attention to issues of environmental racism, ecofeminism, homophobia and the social construction of nature, U.S. environmental imperialism, and urban ecologies. Emphasis on the role of literature and the arts in social change, including practical strategies for activism.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

01791 ENV 016001 D+ Ammons, Elizabe 1.0 C-1st Eng 160-01* Pjs150-05, Eng1&2 Req

Environmental Studies

ENV 0164

MARINE BIOLOGY

(Cross-listed as BIO 164.) An intermediate-level introduction to the biology of marine organisms. Following a detailed survey of major marine animal and plant groups, the course will consider aspects of biology that are particularly relevant to marine organisms: adaptation to salinity and temperature fluctuation, bioluminescence and its ecological significance, locomotory mechanics, food-chain dynamics, dispersal and substrate selection, and control of species diversity.

Sections

01792	ENV 016401	C	Pechenik, Jan	1.0	Bio 13/14 Or Equiv Required,c-lst Bio 164
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ENV 0193

INTRO TO GIS

(Cross-listed as UEP 232.) Broad foundation of GIS theory, capabilities, technology, and applications. Topics include GIS data structure and management, geodesy and map projections, and various techniques for raster and vector spatial data analysis. Laboratory exercises concentrate on applying concepts presented in the lectures using Idrisi and ArcGIS.

Sections

01793	ENV 019302	F+TR	Parmenter, Barb	1.0	C-lst Uep 232-01*grad Stand Or Consent,gis Tisch
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ENV 0196

SELECTED TOPICS

Exploration of special topics of environmental importance through seminars, lectures, or guided study. Credit as arranged (usually one-half, or one course credit).

Prerequisites: Permission of instructor and approval of adviser.

Sections

01795	ENV 019605	10	Staff	1.0	C-lst Uep 294-05
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ENV 0199

SENIOR HONORS THESIS

See Thesis Honors Program for details.

Please see departmental website for specific details.

Sections

04594	ENV 019901	ARR	Staff	1.0	
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ENV 0201

LAND USE PLANNING II

(Cross-listed as CEE 201 and UEP 201.) An overview of land use planning methods, growth dynamics, and land development controls. Comparison of different approaches to land use planning and decision making. Impact of recent environmental legislation on land use. Techniques of mapping, site analysis, subdivision regulation, development controls, and fiscal incentives.

Prerequisites: Consent of Instructor.

Sections

01796	ENV 020101	5	Witten, Jon	1.0	C-lst Ce 201*& Uep 201*
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French

FR 0001 ELEMENTARY FRENCH I

For students having no previous knowledge of French who wish to achieve an active command of the language. Study of fundamental speech patterns. Listening comprehension and oral ability stressed from the outset; progressively greater emphasis on reading and writing skills. Language laboratory. Conducted in French. Two courses.

Sections

01987	FR 0001A	A	Rice, Anne-chri	1.0
01988	FR 0001B	D	Conditto, Kerri	1.0
01989	FR 0001C	F	Rice, Anne-chri	1.0
01990	FR 0001D	I	Julian, John	1.0

FR 0002 ELEMENTARY FRENCH II

For students having no previous knowledge of French who wish to achieve an active command of the language. Study of fundamental speech patterns. Listening comprehension and oral ability stressed from the outset; progressively greater emphasis on reading and writing skills. Language laboratory. Conducted in French.

Sections

01991	FR 0002A	A	Conditto, Kerri	1.0	Fr 1 Or Consent
01992	FR 0002B	C	Conditto, Kerri	1.0	Fr 1 Or Consent
01993	FR 0002C	E	Poncet-montange	1.0	Fr 1 Or Consent
01994	FR 0002D	H	Kelly, Nancy	1.0	Fr 1 Or Consent
01995	FR 0002E	ARR	Detwiller, Elle	1.0	Fr 1 Or Consent

FR 0003 INTERMED FRENCH I

Rapid oral-aural review of structural principles with emphasis on independent use of these principles in oral and written work. Reading and classroom discussion of a variety of texts. Oral exposés, written compositions. Language laboratory. Conducted in French.

Prerequisites: FR 2 or equivalent.

Sections

01996	FR 0003A	A	Pearce, Tracy,	1.0	Fr 2 Or Consent
01997	FR 0003B	C	Gillette, Marie	1.0	Fr 2 Or Consent
01998	FR 0003C	G	Detwiller, Elle	1.0	Fr 2 Or Consent
01999	FR 0003D	I	Taieb, Anne	1.0	Fr 2 Or Consent

FR 0004 INTERMED FRENCH II

Rapid oral-aural review of structural principles with emphasis on independent use of these principles in oral and written work. Reading and classroom discussion of a variety of texts. Oral exposés, written compositions. Language laboratory. Conducted in French.

Prerequisites: FR 3 or equivalent.

Sections

02000	FR 0004A	C	Smirnova, Larys	1.0	Must Also Register For Recitation
02001	FR 0004B	E	Trichard, Agnes	1.0	Must Also Register For Recitation
02002	FR 0004C	J	Thomas, Viola G	1.0	Must Also Register For Recitation
02003	FR 0004RA	ARR	Trichard, Agnes	0.0	Mon 12-12:40 Pm
02004	FR 0004RB	ARR	Trichard, Agnes	0.0	Mon 12:45-1:25 Pm
02005	FR 0004RC	ARR	Trichard, Agnes	0.0	Wed 12:00-12:40 Pm
02006	FR 0004RD	ARR	Trichard, Agnes	0.0	Wed 12:45-1:25 Pm
02007	FR 0004RE	ARR	Trichard, Agnes	0.0	Wed 6:00-6:40 Pm

FR 0021 COMP/CONV I

Advanced oral and written drill in idiomatic French, combined with grammar review for greater fluency of expression. Study of contemporary French culture. Class discussions, oral reports, and writing assignments stressing expository prose and the art of the résumé. Conducted in French.

Prerequisites: FR 4 or equivalent.

Sections

02008	FR 0021A	A	Pauling, David	1.0	Must Also Register For Recitation
02009	FR 0021B	C	Pearce, Tracy,	1.0	Must Also Register For Recitation
02010	FR 0021C	F	Gillette, Marie	1.0	Must Also Register For Recitation
02012	FR 0021RA	ARR	Trichard, Agnes	0.0	Mon 12-12:40 Pm
02013	FR 0021RB	ARR	Trichard, Agnes	0.0	Mon 12:45-1:25 Pm
02014	FR 0021RC	ARR	Trichard, Agnes	0.0	Mon 6-6:40 Pm
02015	FR 0021RD	ARR	Trichard, Agnes	0.0	Wed 12:00-12:40 Pm
02016	FR 0021RE	ARR	Trichard, Agnes	0.0	Wed 12:45-1:25 Pm
02017	FR 0021RF	ARR	Trichard, Agnes	0.0	Wed 6:45-7:25

FR 0022 COMP/CONV II

Continuation of grammar review; increasing emphasis on close reading of texts on contemporary France. Standard French writing forms such as dissertation and commentaire de texte. Oral-aural work, class discussions, regular laboratory assignments, and the dramatization of a narrative text. Conducted in French.

Prerequisites: FR 21 or equivalent.

Sections

02018	FR 0022A	E	Geoghegan, Anni	1.0	Must Also Register For Recitation
02019	FR 0022B	H	Thomas, Viola G	1.0	Must Also Register For Recitation
02020	FR 0022C	KLR	Taieb, Anne	1.0	Must Also Register For Recitation
02021	FR 0022RA	ARR	Trichard, Agnes	0.0	Mon 12-12:40 Pm
02022	FR 0022RB	ARR	Trichard, Agnes	0.0	Mon 12:45-1:25 Pm
02023	FR 0022RC	ARR	Trichard, Agnes	0.0	Mon 6:45-7:25 Pm
02024	FR 0022RD	ARR	Trichard, Agnes	0.0	Tue 6:00-6:40 Pm
02025	FR 0022RE	ARR	Trichard, Agnes	0.0	Tue 6:45-7:25 P.m.
02026	FR 0022RF	ARR	Trichard, Agnes	0.0	Wed 12:00-12:40 Pm
02027	FR 0022RG	ARR	Trichard, Agnes	0.0	Wed 12:45-1:25 Pm

FR 0023 COMP & CONV I AND II

Two credit intensive course. Meets six hours a week. Recommended for students who wish to make rapid progress in French and particularly for those who plan to study in France in the near future. Sources used as a basis for class discussion may include a text on contemporary French culture, short stories, newspaper and magazine articles, films, and television programs. Thorough review of grammatical structures. Compositions, vocabulary-building exercises, dictations, oral reports, grammar and vocabulary tests, and final oral exam. Students are required to attend a weekly 40-minute conversation section. Conducted in French.

Prerequisites: FR 004 or consent.

Sections

04295	FR 0023I	ARR	Rice, Anne-chri	2.0	Intensive Fr 21 & 22; Must Reg For Fr 21 Rec
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French

FR 0032

READINGS IN FR LIT II

Study of works representing significant currents of thought and expression in the nineteenth and twentieth centuries. Lectures, discussions, and explications de texte. Conducted in French.

Prerequisites: FR 21 or equivalent.

Sections

02029	FR 0032A	D+	Schub, Claire	1.0	Fr 21 Or Consent
02030	FR 0032B	E+MW	Pearce, Tracy,	1.0	Fr 21 Or Consent
02031	FR 0032C	F+TR	Trichard, Agnes	1.0	Fr 21 Or Consent
02032	FR 0032D	I+	Gasarian, Gerar	1.0	Fr 21 Or Consent
02033	FR 0032E	K+	Hakim, Zeina	1.0	Fr 21 Or Consent

FR 0042

LA BELLE EPOQUE

La Belle Epogue. Please see departmental website for specific details.

Sections

04297	FR 0042A	G+	Soos, Emese M	1.0	In English
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FR 0094

INDEPENDENT STUDY

(Conducted in English.) Guided individual study of an approved topic in French literature or civilization. Variable credit.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02036	FR 009401	ARR	Gasarian, Gerar	1.0	Permission Of Instructor
02037	FR 009402	ARR	Hakim, Zeina	1.0	Permission Of Instructor
02038	FR 009403	ARR	Lane, Brigitte	1.0	Permission Of Instructor
02039	FR 009404	ARR	Naginski, Isabe	1.0	Permission Of Instructor
02040	FR 009405	ARR	Pollina, Vincen	1.0	Permission Of Instructor
02041	FR 009406	ARR	Poncet-montange	1.0	Permission Of Instructor
02042	FR 009407	ARR	Schub, Claire	1.0	Permission Of Instructor
02043	FR 009408	ARR	Trichard-arany,	1.0	Permission Of Instructor

FR 0121

ADVANCED FRENCH LANG I

In-depth analysis of contemporary French language with special emphasis on the development of the individual's ability to understand and use different styles, written and spoken, from the formal to the familiar. Not for native speakers or for those who have studied in France.

Prerequisites: FR 21 and 22, or permission of instructor.

Sections

04298	FR 0121A	J+	Naginski, Isabe	1.0	Fr 21 & 22 Or Consent
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FR 0125

STUDIES IN FRN CULTURE

Analysis of current trends in the social and intellectual life of the French through films and readings. Institutions, attitudes, and problems specific to contemporary France.

Prerequisites: FR 21 and 22, or 31 and 32, or permission of instructor.

Sections

02045	FR 0125A	H+	Lane, Brigitte	1.0	Fr 21 & 22 Or 31 & 32 Or Consent
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FR 0137

FR REN & BAROQUE POETRY

Introduction to the thematic innovation and formal perfection of Renaissance and Baroque poetry, with attention to the art of reading poetic texts. Topics include love, death, and the spiritual quest, as envisaged by such authors as Ronsard, Du Bellay, Scève, Louise Labé, Pernette du Guillet, Sponde, La Ceppède, Hopil, Saint-Amant.

Prerequisites: FR 31 and 32, or consent

Sections

04299	FR 0137A	J+	Pollina, Vincen	1.0	Fr 31 & 32 Or Consent
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FR 0169

LES POETES MAUDITS

Please see departmental website for detailed information.

Sections

04300	FR 0169A	K+	Gasarian, Gerar	1.0	Fr 31 & 32 Or Consent
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FR 0192

SPECIAL TOPICS

(Conducted in French.) Courses on various topics in French literature or civilization. Topics may include love, marriage, and sexuality in medieval French literature; Balzac, George Sand; Jean Giono; Marguerite Duras; Ionesco; Beckett; Nathalie Sarraute; the Oedipus myth in French literature; and others.

Please see departmental website for specific details.

Prerequisites: FR 31 and 32, or permission of instructor.

Sections

FRANCOPHONE LIT

02046	FR 0192A	E+MW	Schub, Claire	1.0	Taught In French. Pre-req Fr 31 & 32 Or Consent
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BUSINESS FRENCH

02047	FR 0192B	F+TR	Schub, Claire	1.0	Fr 31 & 32 Or Consent
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VOLTAIRE & ROUSSEAU

02048	FR 0192C	G+	Hakim, Zeina	1.0	Fr 31 & 32 Or Consent
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20C FR THEATER & AFTER

02049	FR 0192D	L+	Lane, Brigitte	1.0	Fr 31 & 32 Or Consent
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BALZAC SEMINAR

02050	FR 0192E	N+	Naginski, Isabe	1.0	Fr 31 & 32 Or Consent
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FR 0194

INDEPENDENT STUDY

(Conducted in French.) Guided individual study of an approved topic in French literature or civilization. Variable credit. No more than one credit in Independent Study may be counted toward the major.

Please see departmental website for specific details.

Prerequisites: One 100-level literature course and permission of instructor.

Sections

02052	FR 019401	ARR	Gasarian, Gerar	1.0	One 100-level Lit Course And Consent
02053	FR 019402	ARR	Hakim, Zeina	1.0	One 100-level Lit Course And Consent
02054	FR 019403	ARR	Lane, Brigitte	1.0	One 100-level Lit Course And Consent
02055	FR 019404	ARR	Naginski, Isabe	1.0	One 100-level Lit Course And Consent
02056	FR 019405	ARR	Pollina, Vincen	1.0	One 100-level Lit Course And Consent
02057	FR 019406	ARR	Poncet-montange	1.0	One 100-level Lit Course And Consent
02058	FR 019407	ARR	Schub, Claire	1.0	One 100-level Lit Course And

French

02058	FR 019407		Schub, Claire	1.0	Consent
02059	FR 019408	ARR	Trichard-arany,	1.0	One 100-level Lit Course And Consent

**FR 0199
HONORS THESIS**

Honors Thesis.

Please see departmental website for specific details.

Prerequisites: French 31 and 32 and permission of instructor.

Sections

02072	FR 0199BT	ARR	Staff	1.0	Fr 31 And 32 And Consent
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**FR 0296
MASTERS THESIS**

Guided research on an approved thesis topic. Variable credit.

Please see departmental website for specific details.

Prerequisites: Permission of Instructor.

Sections

02073	FR 0296BT	ARR	Staff	1.0	Permission Of Instructor
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**FR 0401
MASTER'S CONT.PART-TIME**

Part-time.

Please see departmental website for specific details.

Sections

02080	FR 0401PT			0.0	
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**FR 0402
MASTER'S CONT.FULL-TIME**

Full-time.

Please see departmental website for specific details.

Sections

02081	FR 0402FT			0.0	
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Geology

GEO 0002 ENVIRON GEOLOGY W/LAB

Geologic processes at the earth's surface. Groundwater, the development of erosional and depositional landforms, glaciation and climate, and sea level change. Modern geologic environments as analogs for past environments and climate. Geologic processes and humans. Field trips illustrating glacial and coastal environments. Three lectures, one field trip or laboratory. Spring.

Sections

02087	GEO 000201	C	Ridge, John C	1.0	Register For Mandatory Geo Lab 2-la Thru 2-le
02088	GEO 000202	E	Ridge, John C	1.0	Register For Mandatory Geo Lab 2-la Thru 2-le
02082	GEO 0002LA	5+	Staff	0.0	
02083	GEO 0002LB	6+	Staff	0.0	
02084	GEO 0002LC	7+	Staff	0.0	
02085	GEO 0002LD	8+	Staff	0.0	
02086	GEO 0002LE	9+	Staff	0.0	

GEO 0022 STRUCTURAL GEO W/LAB

Deformation of the earth's crust. Stress and strain analysis, plate tectonic theory, and description and interpretation of deformational structures in rocks. Kinematic analysis of structures, reinforced by fieldwork to study rock structures in their natural setting. Three lectures, one field trip or laboratory. Spring 2008 and alternate years.

Prerequisites: GEO 1.

Sections

04143	GEO 002201	D+	Gardulski, Anne	1.0	Pre-requisite Geo 1
04144	GEO 0022L	6+		0.0	

GEO 0036 STRATIGRAPHY

Basic stratigraphic principles applied to subaerial to deep marine environments. Tectonic, climatic, and oceanographic processes that control sedimentation patterns. Correlation techniques using biostratigraphy, isotope stratigraphy, seismic stratigraphy, and magnetostratigraphy. One or two weekend field trips.

Sections

04145	GEO 003601	E+MW	Gardulski, Anne	1.0	Pre-requisite Geo 2
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GEO 0092 GEOLOGICAL RESEARCH

Guided laboratory and field research on one of a broad range of geological topics. Five hours (half-credit option) to ten hours (full-credit option) are required per week, including one hour of consultation with the research supervisor. Final written or oral presentation. Does not satisfy concentration in geology.

Prerequisites: Permission of instructor.

Sections

02093	GEO 009201	ARR	Benner, Jacob	0.0-3.0	Permission Of Instructor
02094	GEO 009202	ARR	Gardulski, Anne	0.0-3.0	Permission Of Instructor
02095	GEO 009203	ARR	Garven, Grant	0.0-3.0	Permission Of Instructor
02097	GEO 009205	ARR	Ridge, John C	0.0-3.0	Permission Of Instructor

GEO 0104 GEO APPLICATIONS OF GIS

Basic Geographic Information Systems (GIS) theory and application in the geological sciences. A series of self-directed tutorials in basic GIS skills complemented by a weekly lecture and geological extension exercise. A final independent project focused on a geological application of GIS will reinforce and extend basic skills. Final project to be presented in lieu of final exam. One half course credit.

Prerequisites: GEO 1 and 2, and permission of the instructor.

Sections

02099	GEO 010401	F+T	Benner, Jacob	0.5	Preq: Geo 1 Or 2
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GEO 0132 GROUNDWATER CHEM&QUALITY

Hydrogeologic processes affecting the chemistry and quality of groundwater. Topics include: chemical principles; geochemical thermodynamics; mineral solubility; oxidation-reduction; ion exchange/sorption; isotopes and age dating; diffusion and dispersion in soil, sediment, and fractured rock; numerical modeling of reactions and solute transport; geologic characterization; measures of water quality; case studies of contamination, nuclear-waste disposal, and carbon sequestration.

Prerequisites: GEO 131 and CHEM 1.

Sections

02100	GEO 013201	K+	Garven, Grant	1.0	Preq:geo 131 Or Ce 113 & Chem 1,c-1st Ce 194-a
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GEO 0194 SENIOR THESIS

Intensive laboratory or field investigations designed and carried out by the student, culminating in a written thesis and oral defense.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02105	GEO 019401	ARR	Benner, Jacob	1.0	Permission Of Instructor
02106	GEO 019402	ARR	Gardulski, Anne	1.0	Permission Of Instructor
02107	GEO 019403	ARR	Garven, Grant	1.0	Permission Of Instructor
02109	GEO 019405	ARR	Ridge, John C	1.0	Permission Of Instructor

GEO 0288 GROUNDWATER MODELING

Numerical analysis of groundwater flow, with applications. Topics include: numerical formulation of the governing equations using finite difference, finite element, integrated finite difference, particle tracking, boundary element, and discrete element techniques; matrix and iterative solutions; algorithms for 1-D, 2-D, and 3-D flow; stability and accuracy; applications using popular USGS software in the public domain. Students will be expected to apply existing Fortran programs for 1-D, 2-D, and 3-D solutions as part of computational laboratory modeling assignments.

Sections

02110	GEO 028801	E+MW	Garven, Grant	1.0	Grad Standing; C-list Cee294b
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German

**GER 0002
ELEMENTARY GERMAN**

Emphasis on active command of basic spoken and written German. Essentials of German grammar, vocabulary, syntax, and usage. One additional weekly practice session in small groups with a T.A. to improve speaking facility and reinforce and expand class material. Two courses.

Sections

02111	GER 0002A	C	Pfaffinger, Dor	1.0	Practice Session Tbd
02112	GER 0002B	D	Stoessel, Saski	1.0	Practice Session Tbd
02113	GER 0002C	F	Stoessel, Saski	1.0	Practice Session Tbd
04100	GER 0002D	L+MM	Rettelbach, Eli	1.0	Practice Session Tbd

**GER 0004
INTERMEDIATE GERMAN**

Readings in German prose and poetry. Review of German grammar and syntax. One additional weekly practice session in small groups with a T.A. to improve speaking facility and reinforce and expand class material.

Prerequisites: GER 3 or equivalent.

Sections

02114	GER 0004A	E	Pfaffinger, Dor	1.0	Conversation Section Tba
02115	GER 0004B	J	Rettelbach, Eli	1.0	Conversation Section Tba

**GER 0022
COMPOSITION/CONVERSATION**

Emphasis on oral skills with continuing practice in writing. Oral reports and discussions of the German cultural scene, based primarily on current newspapers, magazines, and films. One additional practice session in small groups to achieve increased fluency.

Prerequisites: GER 4, 21, or permission of instructor.

Sections

02116	GER 002201	C	Stoessel, Saski	1.0	Conversation Section Tba
04101	GER 002202	G	Totten, Monika	1.0	Conversation Section Tbd

**GER 0044
SHAPING IDENTITY: SOC&POL**

Based on a selection of films and shorter texts, students get an introduction to social, political, and cultural developments in twentieth-century Germany as seen by authors, filmmakers, artists, and journalists. Besides improving all language skills, the course aims to develop a cross-cultural competence (better understanding of German attitudes, traditions, national self-awareness).

Prerequisites: GER 33.

Sections

04102	GER 004401	G+	Pfaffinger, Dor	1.0	In German
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**GER 0057
BERTOLT BRECHT**

(Cross-listed as DR 57.) The dramas, poems, and short stories of one of the most controversial and influential German playwrights of the twentieth century. Attention to history and theory of German theatre. Emphasis on Brecht's representation of women and the role of women in his theatre collective. Readings in German for German majors and in English for other students. (May be taken at 100 level with consent.)

Sections

04103	GER 005701	J+	Brown, Daniel W	1.0	In English
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**GER 0062
SURVEY GERMAN LIT II**

A systematic survey of the historical development of German literature from the Middle Ages to the present. Selected readings include primary works by major German writers. Conducted in German. Fall (61) and spring (62).

Prerequisites: GER 22, 33, 44, or equivalent.

Sections

02119	GER 006201	F+TR	Grimm, Geraldin	1.0	In German
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**GER 0070
GRIMMS' FAIRY TALES**

The Grimm brothers as nineteenth-century collectors and authors. Folk tale and literary fairy tale; relation to the development of German nationalism and capitalism; role in attitude formation toward gender and social class; assimilation and adaptation in twentieth-century social, political, and economic life under the Weimar Republic, National Socialism, and post-World War II Germany. Significant focus on women's issues. (May be taken at 100 level with consent.)

Sections

02120	GER 007001	E+MW	Brodersen, Silk	1.0	In English; Lower Lvl Of Dual Lvl Crs Ger70/170
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**GER 0092
SPECIAL TOPICS**

Courses on selected themes and authors given in English or German. Recent offerings included Hermann Hesse, Max Frisch, The Faust Theme in World Literature, The Fiction of Marriage, Illustrated Literature.

Please see departmental website for specific details.

Sections

G LIT & SEXUALITY

04104	GER 009210	H+	Grimm, Geraldin	1.0	In English
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**GER 0094
DIRECTED STUDY**

Guided independent study of an approved topic. Variable credit.

Please see departmental website for specific details.

Sections

02138	GER 009401		Ascher, Gloria	1.0	Permission Of Instructor
04105	GER 009402	ARR	Brown, Daniel W	0.5	
02139	GER 009403		Gittleman, Sol	1.0	Permission Of Instructor
02141	GER 009405		Pfaffinger, Dor	1.0	Permission Of Instructor
02142	GER 009406		Romero, Christi	1.0	Permission Of Instructor
02143	GER 009408		Stoessel, Saski	1.0	Permission Of Instructor
02144	GER 009410	ARR	Grimm, Geraldin	1.0	

**GER 0096
TEACHING INTERNSHIP**

Internship.

Please see departmental website for specific details.

Sections

02145	GER 009601		Stoessel, Saski	0.5	Permission Of Instructor
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German

**GER 0124
PRACTICES TEACHING LANG**

Curriculum, materials, and principles of teaching world languages for elementary, middle, or secondary school. Please see departmental website for detailed semester information.

Sections

02146	GER 012401	11	Stoessel, Saski	1.0	C-1st Ed 124,for Pre-service Student Teachers Only
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**GER 0170
GRIMMS' FAIRY TALES**

The Grimm brothers as nineteenth-century collectors and authors. Folk tale and literary fairy tale; relation to the development of German nationalism and capitalism; role in attitude formation toward gender and social class; assimilation and adaptation in twentieth-century social, political, and economic life under the Weimar Republic, National Socialism, and post-World War II Germany. Significant focus on women's issues. Extra assignments and conferences. (Also offered as lower-level.)

Prerequisites: Permission of instructor.

Sections

02149	GER 017001	E+MW	Brodersen, Silk	1.0	Upper Level Ger 70; See Instructor
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**GER 0175
EARLY 20TH CENTURY LIT**

A critical and historical survey of major German writers and literary trends of the first part of the twentieth century, from naturalism and decadence through expressionism and New Objectivity. Readings include Rilke, Hofmannsthal, Schnitzler, Wedekind, Sternheim, Kaiser, Brecht, Kafka, and Thomas Mann.

Prerequisites: GER 62 or equivalent, or consent.

Sections

04106	GER 017501	J+	Romero, Christi	1.0	In German
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**GER 0192
SPECIAL TOPICS**

Courses and seminars for advanced and graduate students.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

ACH EUROPA!

04107	GER 019211	K+	Totten, Monika	1.0	In German
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**GER 0194
DIRECTED STUDY**

For advanced and graduate students. Variable credit.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02156	GER 019401		Ascher, Gloria	0.0-3.0	Permission Of Instructor
04557	GER 019402	ARR	Brown, Daniel W	0.0-3.0	
02157	GER 019403		Gittleman, Sol	0.0-3.0	Permission Of Instructor
02159	GER 019405		Pfaffinger, Dor	0.0-3.0	Permission Of Instructor
02160	GER 019406		Romero, Christi	0.0-3.0	Permission Of Instructor
02161	GER 019408		Stoessel, Saski	0.0-3.0	Permission Of Instructor

**GER 0196
GERMAN INTERNSHIP**

Internship.

Please see departmental website for specific details.

Sections

02162	GER 019601		Stoessel, Saski	1.0	Permission Of Instructor
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**GER 0199
HONORS THESIS**

See Thesis Honors Program for details.

Please see departmental website for specific details.

Sections

02163	GER 019901			0.0-3.0	Permission Of Instructor
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**GER 0292
GRAD COLLOQUIUM**

An advanced and comprehensive review of the discipline of German literature, including historical, critical, and interdisciplinary aspects.

Please see departmental website for specific details.

Sections

02164	GER 029201	ARR	Romero, Christi	0.0	Permission Of Instructor
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**GER 0401
MASTERS DEGREE CONT.**

Part-time.

Please see departmental website for specific details.

Sections

02186	GER 0401PT			0.0	
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**GER 0402
MASTERS DEGREE CONT.**

Full-time.

Please see departmental website for specific details.

Sections

02187	GER 0402FT			0.0	
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Gordon Institute

**EM 0051
ENGINEERING MANAGEMENT**

Organization of companies and engineering groups. Financial fluency, including time value of money, return on investment, income and cash flow statements, and balance sheets. Management of people and organizations. Project and program management techniques and tools. Management of research, development, and design. Operations management, including manufacturing operations and supply chains.

Sections
01587 EM 0051CE 13+ Smith, Jennifer 1.0

**EM 0052
TECH & MANAGERIAL COMM**

Written and oral communications in the business setting. Written communications including technical reports and papers, memoranda, and electronic communications. Design and delivery of effective presentations. Informal communication styles and techniques. Communication across cultures.

Sections
01588 EM 0052AC F+TR Hirschfeld, Amy 1.0
01589 EM 0052BC J+ Hirschfeld, Amy 1.0

**EM 0054
ENGINEERING LEADERSHIP**

Development of knowledge, skills, and mindset essential for leading programs and teams in a business organization. Topics include understanding personalities of self and others, emotional intelligence, creating high performance teams, influencing without authority, managing conflict, fostering creativity, creating shared visions, and organizational change. Communicating to inspire. Cultural differences in leadership style. Ethical considerations.

Sections
04414 EM 0054CE ARR Staff 1.0 Tr
0900am-1020a
m

**EM 0153
MANAGEMENT OF INNOVATION**

Development of the knowledge, skills and insight necessary to lead and manage innovation in new product, process and service development, including the market development life cycle. Topics taught include planning and execution of engineering projects, best practices from concept generation to completion with emphasis on concurrent design, project and program management tools and techniques, entrepreneurship and intrapreneurship, and design for sustainability.

Prerequisites: EM 0051

Sections
01590 EM 0153CE 7+ Liggero, Samuel 1.0

**EM 0210
QUANTITATIVE METHODS**

Application-oriented engineering tools and techniques, including data analysis, simulations and modeling, statistical process control, and experimental design.

Sections
01591 EM 021001 0.0-1.0

**EM 0220
PRODUCT & PROCESS DEVELP**

In depth treatment of both business and technical aspects of new product development, including voice of the customer, concept generation and evaluation, marketing, supply chain, intellectual property and usability.

Sections
01592 EM 022001 0.0-1.0

**EM 0230
PROJECT & OPERATIONS MAN**

Series of modules providing best practices in project management, operations management, supply chain, and an introduction to finance and accounting.

Sections
01593 EM 023001 0.0-1.0

**EM 0240
BUSINESS STRA & PLANNING**

Introduction to a strategy development for high technology businesses. Explores the basis of competition, core competencies, functional (technology, marketing, supply chain) strategies, best practices in innovation, and multinational growth.

Sections
01594 EM 024001 0.0-1.0

**EM 0250
HUMAN PERSP ON ENG LEAD**

Introduction to responsible leadership through the lens of classical literary works. Increases students' understanding of cultural, social and ethical contexts of leadership in complex and uncertain environments.

Sections
01595 EM 025001 0.0-1.0

**EM 0260
ENGINEERING LEADERSHIP**

Development of the interpersonal skills necessary for leadership. Involves 360 degree assessment tools. Topics include creating high performance teams,, giving feedback, influencing without authority, managing conflict, fostering creativity, communicating to inspire and working across cultures.

Sections
01596 EM 026001 0.0-1.0
01597 EM 026002 Viola, Mary 0.0-1.0

**EM 0280
THE PROJECT**

Student led 'real-life' engineering project to demonstrate business acumen and leadership skills. Project must be complex and involve risk with a 6-9 month duration, often done with the student's current employer.

Sections
01598 EM 028001 1.5

**EM 0401
MASTERS DEGREE CONT**

Part-time.
Please see departmental website for specific details.

Sections
01599 EM 0401PT 1.0

**EM 0402
MASTERS DEGREE CONT**

Full-time.
Please see departmental website for specific details.

Sections
01600 EM 0402FT 0.0

Greek

GRK 0002

ELEM ANCIENT GREEK II

A continuation of Ancient Greek I. Emphasis on the reading of Greek texts.

Prerequisites: GRK 1 or placement.

Sections

02188	GRK 000201	D	Mahoney, Anne	1.0	Grk 1 Or Consent Or Placement
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GRK 0103

GREEK HISTORIANS

Readings from the histories of Herodotus, Thucydides, or Xenophon.
Hirsch

Sections

04213	GRK 010301	K+	Berti, Monica	1.0	Prereq: Grk 7 Or Plcment Or Consent
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Hebrew

**HEB 0002
ELEMENTARY HEBREW**

Study of fundamental speech patterns. Listening comprehension and oral ability, using audiovisual method. Progressively greater emphasis placed on reading and writing skills.

Prerequisites: HEB 1 or equivalent.

Sections

02193	HEB 0002A	E+EF	Kimelman, Hava	1.0	
02194	HEB 0002B	G+GF	Kimelman, Hava	1.0	
02195	HEB 0002RA	ARR	Staff	0.0	M 0500pm-0550p m
02196	HEB 0002RB	ARR	Staff	0.0	M 0600pm-0650p m
02197	HEB 0002RC	ARR	Staff	0.0	R 0330pm-0425p m

**HEB 0004
INTERMEDIATE HEBREW**

Rapid oral review of structural principles. Written exercises. Reading and discussion based on selected materials from Hebrew literature. Conducted mainly in Hebrew.

Prerequisites: HEB 3 or equivalent.

Sections

02198	HEB 000401	E+EF	Harari-spencer,	1.0	
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**HEB 0022
CONVERSATION/COMPOSITION**

Continuation of HEB 21. The study of major works and problems of the twentieth century in Hebrew literature and in Jewish history. Readings will include works by Shahar, Liebrecht, Avnery, Levin, Hareven, and others. Discussions and compositions will follow the literary texts, films, and current events.

Prerequisites: HEB 21 or equivalent.

Sections

02199	HEB 002201	I+	Harari-spencer,	1.0	Additional 50 Min Meeting Tba
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**HEB 0094
DIRECTED STUDY**

Directed Study.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02200	HEB 009401	ARR	Harari-spencer,	1.0	Permission Of Instructor
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**HEB 0096
HEBREW TEACHING INTERNS**

Teaching Internship.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02201	HEB 009601			1.0	Permission Of Instructor
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**HEB 0122
COMPOSITION & CONVERSAT**

The study of major works and problems of the twentieth century in Hebrew literature and in Jewish history. Readings will include works by Shahar, Liebrecht, Avnery, Levin, Hareven, and others. Discussions and compositions will follow the literary texts, films, and current events. Extra readings and written assignments.

Prerequisites: HEB 121 or permission of the instructor.

Sections

02202	HEB 012201	K+	Harari-spencer,	1.0	Additional 50 Minute Meeting Tba
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**HEB 0192
DIRECTED STUDY**

Directed Study.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02203	HEB 019201	ARR	Harari-spencer,	1.0	Permission Of Instructor
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History

HIST0010

IR: HISTORICAL PERSPECT

This introductory course will explore ways in which historians can bring their own perspective to the field of International Relations. The evolution of relations among peoples and regimes from the medieval period to the present; how wars begin and end; interrogating the nation-state idea in a world of superpower hegemony and non-governmental organizations (NGOs); how historical, cultural, and sociological approaches to the field of international relations may differ from and perhaps challenge aspects of formal IR theory.

Sections

04558	HIST001011	E+MW	Malchow, Howard	1.0	This Course Will Have A Recitation
04559	HIST001012	AR	Malchow, Howard	0.0	
04560	HIST001013	BR	Malchow, Howard	0.0	
04561	HIST001014	BF	Malchow, Howard	0.0	
04562	HIST001015	EMF	Malchow, Howard	0.0	

HIST0019

MODERN LATIN AMERICA

Latin America from its struggle for independence to the present day. Nationalism and authoritarian rule, export economies and industrial growth, social structure and social change, reform and revolution, democracy and international relations.

Sections

04563	HIST001923	C	Corbett, Barbar	1.0	
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HIST0029

US FOR RELAT SINCE 1900

The rise of the United States to global preeminence over the course of the twentieth century is a fundamental element of recent international history. This transition had a profound impact on global life as well as the United States itself. This course will trace those changes.

Sections

04564	HIST002916	I+MW	Ekbladh, David	1.0	
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HIST0031

HISTORY OF REL IN AMER

(Cross-listed as REL 40). Historical survey of religion in America, from Columbus's voyage in 1492 to the present. Native American and African-American traditions, the first plantings of European traditions (Catholicism, Anglicanism, Puritanism, Lutheranism, and Judaism), the birth of uniquely American denominations (Mormonism, Adventism, Christian Science, and Pentecostalism). Colonialism, slavery, the Enlightenment, biblicism, church-state relations, and the religious history of the Boston area.

Sections

02209	HIST003101	G+	Curtis, Heather	1.0	C-1st Rel 4, Amer 180-02
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HIST0035

AFR AM POST CIVIL RGTS

Examines African American history since 1975, paying particular attention to the social, political, economic, and cultural transformations blacks have made since the passage of the modern Civil Rights Movement. Topics include debates over Affirmative Action; the rise of black elected officials; the impact of Hip Hop; black urban crime and the prison industrial complex; the resurgence of black nationalism in black film and culture; the election of Barack Obama.

Sections

04565	HIST003517	E+MW	Joseph, Peniel	1.0	
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HIST0041

MODERN CHINA

A broad survey of China's political, social, and cultural history from the Opium War to the present. China's long struggle for modernization in a global context; the everyday lives of the Chinese people as well as major events; the complexity and diversity of modern China in historical perspective.

Sections

04566	HIST004117	K+	Hill, Joshua	1.0	
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HIST0043

JAPAN SINCE 1868

From the eve of the Meiji Restoration to the twentieth century. Topics include the unequal treaties with Western powers, the Meiji Restoration, early industrialization, growth of the imperialist state, fascism, war, defeat, recovery, and recent role as a member of the Western camp.

Sections

04567	HIST004318	G	Leupp, Gary	1.0	
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HIST0051

HISTORY ANCIENT ROME

(Cross-listed as CLS 38.) The history of ancient Rome, tracing Rome's rise from an insignificant Italian community to the ruler of the Mediterranean world, and ending with the transfer of the imperial capital to Constantinople in A.D. 330. Emphasis on the interaction of Rome with various foreign peoples, and examination of literary and documentary sources. Spring.

Sections

02215	HIST005101	I+MW	Hitchner, Bruce	1.0	Crslst Cls38
02212	HIST0051RA	AR	Hitchner, Bruce	0.0	C-1st Cls 0038ra
02213	HIST0051RB	LR	Hitchner, Bruce	0.0	C-1st Cls 0038rb
02214	HIST0051RC	FF	Hitchner, Bruce	0.0	C-1st Cls 0038rc

HIST0053

EUROPE TO 1815

Eastern and Western Europe from the decline of the Roman Empire in the West through the medieval era into early modern times, ending with a thorough examination of the background of the French Revolution and Napoleon. The religious, secular, economic, social, political, and diplomatic processes which have had a lasting impact on modern European institutions and developments.

Sections

RECITATION

04568	HIST005302	I+MW	Proctor, David	0.0	
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HIST0054

RECITATION

Introduction to the major themes of European history since the French Revolution. Revolution, class struggle, industrialization, nationalism, imperialism, world wars, totalitarianism, genocide, the Cold War, decolonization, and immigration. Europe's impact on the wider world and how the wider world shaped Europe. Primary sources emphasized.

Sections

02216	HIST005401	AR	Proctor, David	0.0	
02217	HIST005402	QR	Proctor, David	0.0	
02218	HIST005403	NR	Proctor, David	0.0	

RECITATION

04569	HIST005404	FF	Proctor, David	0.0	
02219	HIST005409	EF	Proctor, David	1.0	

HIST0056

EUROPE-HIGH MIDDLE AGES

Western Europe from the middle of the eleventh to the beginning of the fifteenth century, the period of the flowering and decline of medieval culture and society. Topics include the economic revolution of the twelfth century, the growth of towns and development of urban culture, the reform of the church, the challenge of heresy and the emergence of popular religion, the consolidation of knighthood and the creation of an ideal of chivalry, Scholasticism and vernacular literature, Romanesque and Gothic art and architecture, and the social and cultural crisis of the fourteenth century.

Sections

02220	HIST005605	J	Marrone, Steven	1.0	
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History

HIST0063

MODERN GERMANY

Germany since the 1840s, from unification to unification. Bismarck's Germany. World policy and world war. Weimar democracy. The National Socialist dictatorship and another war. Defeat and reconstruction. The two Germanies. A new Germany in a new Europe?

Sections

04571 HIST006319 F+TF Mulholland, Dan 1.0

HIST0071

MIDDLE EAST SINCE WW I

Major themes of the history of the region in light of long-term historical and cultural trends, including the impact of the West, World War I and the dismemberment of the Ottoman Empire, the emergence of nation states, the role of Islam in a changing society, tradition and revolution, the oil boom, and the Arab-Israeli conflict.

Sections

04572 HIST007120 F+R Staff 1.0

HIST0074

MODERN ARMENIA

The uses of history in the formation of Armenian identity, nation, and nationalism. The Armenians of the Ottoman Empire, Iran, India, and other host societies. A comparative study of the ideas of nationality and ethnicity, with a focus on revolution, ideology, and identity. Linkages between the massacre of Armenian people in 1915 and other mass killings and genocide in the twentieth century (examples extend to Kosovo in 1999).

Sections

04599 HIST007425 I+MW Baghdiantz-mcca 1.0
04601 HIST007426 I+MW Baghdiantz-mcca 1.0

HIST0086

SPECIAL TOPICS: EUROPE

Please see departmental website for detailed course information.

Sections

WOMEN OF BYZANTIUM

04631 HIST008601 H+ Proctor, David 1.0 Crosslist As Cls
86 And Cls 186

HIST0093

FOUND SEM:NORTH AMERICA

Please see departmental website for detailed course information.

Sections

COURTSHIP IN AMERICA

04574 HIST009305 8 Drachman, Virgi 1.0

HIST0094

FOUNDATION SEM: EAST ASIA

Please see departmental website for detailed course information.

Sections

RELIGION IN JAPANES HIST

04575 HIST009406 6+ Leupp, Gary 1.0

HIST0096

FOUNDATION SEM : EUROPE

Please see departmental website for detailed course information.

Sections

FOOD AND SOCIETY

04576 HIST009607 6+ Baghdiantz-mcca 1.0

HIST0110

RACE, CLASS, POWER-SO. AFR

Continuity and change in Southern African history from the mineral revolution of the late nineteenth century to the present. Themes include regional struggles for land, labor, and political authority within the developing regional economy; strategies to shape the migrant labor system; patterns of urbanization and dispossession; political articulation and recent dismantling of racial segregation and apartheid in the region's core; interrelated experiences of war, exile, refugee status; commitments to political reconciliation; and the issue of economic redistribution.

Sections

04577 HIST011021 D+ Penvenne, Jeann 1.0

HIST0120

AMER MILITARY HIST -1900

American military events and developments from the colonial era through the end of the nineteenth century. The role of the military in a free society; civilian-military relations; "laws of civilized warfare"; clash of military cultures; role of social hierarchies; war experiences on the home front; professionalization, recruitment, and mobilization; imperial ambitions, strategies, and tactics; technology and resources; war and memory.

Sections

04578 HIST012021 E+MW Carp, Benjamin 0.0

HIST0152

REL&SPIRIT EURO 300-1500

(Cross-listed as REL 113.) The encounter between Christianity and Roman, Celtic, and German paganism; resistance to established Christianity among the common people; spread of Judaism and changing relations between Christians and Jews; coexistence of Muslims, Jews, and Christians in Spain. Focus on cultural history and development of institutions such as monasticism, a clerical hierarchy, and rabbinical communities, with attention as well to evolution of spiritual practices in the three "religions of the book": Judaism, Christianity and, for southern Europe, Islam.

Sections

04579 HIST015222 F+TR Marrone, Steven 1.0

HIST0154

HLTH/HEAL MEDIEVAL EUR

Medicine in Western Europe from approximately 1100-1700. Key intellectual, social, and cultural themes and trends in pre-modern medicine. Major topics include the development of university medicine from its Greek and Arabic roots through the theoretical upheavals of the sixteenth and seventeenth centuries; medical practice, particularly the diverse types of healers and their relationship with patients; epidemic disease such as plague and syphilis and early public health measures formed in response; the development of hospitals and other medical institutions. Overlapping naturalistic, religious, and magical approaches to disease and healing.

Sections

04580 HIST015422 E+MW Rankin, Alisha 1.0

HIST0159

FRENCH REVOLUTION

The Revolution of 1789 in France and its impact in Europe and beyond, from the fall of the Old Regime to the rise of Napoleon. A critical, iconic event in world history, the French Revolution marks the birth of modern political culture and citizenship, transforming the way the French viewed themselves and their role in the world. Revolutionary debates on human rights, individual liberty, representative democracy, and social equality in the global context of revolutions in North America and Haiti. The course will make use of primary sources and engage the rich historiography of this era.

Sections

04581 HIST015923 I+MW Foster, Elizabe 1.0

History

HIST0160

FRANCE AND AFRICA

Encounters between France and Africa since the eighteenth century. Topics: slavery, African responses to French rule, competing conceptions of a French "civilizing mission," decolonization, relations between France and former African colonies, and the experience of African immigrants in contemporary France.

Sections

04582 HIST016024 E+MW Foster, Elizabe 1.0

HIST0162

ECON OF BRIT IND REV

(Cross-listed as EC 87). English property rights, the demographic revolution, the agricultural revolution, the Poor Law, labor market integration, standard of living, domestic and international capital flows, foreign trade, Empire trade (India, Ireland, West Indies), and the relative retardation of France and Holland.

Prerequisites: EC 5.

Sections

02234 HIST016201 J+ Rothenberg, Win 1.0 C-1st Ec 87

HIST0170

ADV SP TO:WRLD&TRANSRGNL

Please see departmental website for specific details.

Sections

ISLAM ON THE IND OCEAN R

04583 HIST017025 3+ Manjapra, Kris 1.0

HIST0175

ADV SP TPS: SOUTH ASIA

Please see departmental website for detailed course information.

Sections

THE SOUTH ASIA URBAN HST

04584 HIST017527 M+ Manjapra, Kris 1.0

HIST0176

ADV SP TPS: EUROPE

Please see departmental website for detailed course information.

Sections

HISTORY OF MADRID

04585 HIST017624 K+ Schmidt-nowara, 1.0

HIST0178

COLLOQUIUM ON INT REL

This course encourages students to approach their study abroad or other international programs as opportunities to conduct quality research that might later form the basis of a senior project, research seminar paper or thesis. We recall and build upon the basic analytical and research skills introduced through the college writing requirement and the introductory / foundation courses in the various disciplines that comprise the International Relations Program. International research poses specific practical, ethical, and cultural challenges. We raise those issues as part of the research process from an initial exploration of a project to the completion of a research précis.

Sections

02239 HIST017801 ARR Penvenne, Jeann 1.0 C-1st Intr 91

HIST0190

RSRCH SEM:WRLD TRANSR HS

Please see departmental website for specific details.

Sections

THE GLOBAL 1930S

04586 HIST019008 2 Ekbladh, David 2.0

HIST0191

RESEARCH SEMINAR: AFRICA

Please see departmental website for detailed course information.

Sections

THE BLACK PANTHER PARTY

04587 HIST019109 5 Joseph, Peniel 1.0 Cross Listed With Peace & Justice 0150

HIST0196

RESEARCH SEMINAR: EUROPE

Please see departmental website for specific details.

Sections

PARIS, 1919 & THE TREAT

04588 HIST019609 8 Malchow, Howard 1.0

RENAISSANCE & REFORMATIO

04589 HIST019610 7 Rankin, Alisha 1.0

HIST0212

COLLOQUIUM

Please see departmental website for specific details.

Sections

CULT OF VIOLEN IN THE WE

04590 HIST021226 1 Carp, Benjamin 1.0 Open To Graduate Student Only

HIST0289

READINGS IN HISTORY.....

Learn the organization of an exhibition, from idea to opening reception and beyond. This course addresses issues specific to the temporary museum exhibition, such as priorities, deadlines, loan negotiations, installation requirements, and curatorial and educational goals. Students select objects, arrange for loans, design and install the exhibition, create and implement a public relations campaign, write interpretive labels and an exhibit guide, and formulate and produce public programs. Spring.

Prerequisites: Art History 285 and one other museum studies course.

Sections

02315 HIST028901 11 Turino, Kenneth 1.0

HIST0290

MATERIAL CULTURE

The interpretation of past societies and cultures through artifactual material, and the problems involved in presenting these interpretations to contemporary audiences. The course draws on modes of analysis developed in social history, archaeology, anthropology, folklore, and material culture studies, with an emphasis on New England between the precontact period and the urban industrial present. Fall.

Sections

02316 HIST029001 13+ Tisdale, Rainey 1.0 Museum Studies Course Meets 6:00-9:00 P.m.

HIST0292

MUSEUM STUDIES INTERNSHP

(Cross-listed as FAH 289 and ED 284.) Intended to provide firsthand professional experience in museum work, relevant to the student's interests and career goals. Specific training and projects arranged by the student with the approval of a museum site supervisor and the program adviser. Fall, spring, and summer.

Sections

02317 HIST029201 ARR Robinson, Cynth 1.0 To Reg Contact Intrnshp Sup 617-627-3022

History

HIST0296

MASTER'S THESIS

Guided research on a topic that has been approved as a suitable subject for a master's thesis. Two courses.

Please see departmental website for specific details.

Sections

04591	HIST029601	ARR	Staff	1.0	Only Open To Graduate Students
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HIST0298

DOCTORAL DISSERTATION

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02322	HIST029801	ARR	Staff	1.0	Permission Of Instructor
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HIST0402

MASTERS CONT FULL TIME

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02356	HIST0402FT	ARR	Staff	0.0	Open To Graduate Students Only
02357	HIST0402PT	ARR	Staff	0.0	Permission Of Instructor

HIST0502

PHD CONTINUATION FT

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02363	HIST050202	ARR	Staff	0.0	
02361	HIST0502FT	ARR	Staff	0.0	Graduate Students Only

Interdisciplinary

IDIS0199

ASIAN STY HONORS THESIS

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02365	IDIS0199HT		0.0-3.0	Permission Of Instructor
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IDIS0298

DISSERTATION RESEARCH

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02366	IDIS029801	Marrone, Steven	1.0	Permission Of Instructor
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IDIS0501

DOCTORAL CONTINUATION

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02369	IDIS0501PT		0.0	Permission Of Instructor
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IDIS0502

DOCTORAL DEGREE CONT.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02370	IDIS0502FT		0.0	Permission Of Instructor
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Intern. Letters, Visual Studies

ILVS0050
INTRO TO FILM STUDIES

(Cross-listed as DR 50.) Introduction to fundamental methodologies for reading film. Overview of film studies with emphasis on film as a complex art form. Narrative as a formal system, film genres, style and its related techniques, critical approaches to film analysis, film history. Weekly screening of relevant films selected from both Hollywood and world cinemas.

Sections

02372	ILVS005001	D+	Marquette, Scar	1.0	C-lst Dr 50-01
02371	ILVS0050R	ARR	Marquette, Scar	0.0	Non-mand.rec. Tue7:30-9:30;m ust Reg For ilvs50

ILVS0065
ARAB TRAVEL LITERATURE

(Cross-listed as ARB 65) An overview of travel writing as a literary form of expression. Within Arab and Muslim cultural contexts, analysis of how travel literature expresses inquisitiveness at the encounter with a different culture. Examines how the traveler-writer endeavors to decipher this different culture in the light of her or his own experience and knowledge. Comparison of travel writing from these regions to the genre in other cultural contexts. Issues such as tolerance/intolerance, transience/permanence, and universal/particular as they relate to the literary genres of travel writing in primary and secondary readings. In English.

Sections

02373	ILVS006501	G+	Alwan, Mohammed	1.0	In English, C-lst Arb 65
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ILVS0092
SPECIAL TOPICS

Please see Departmental website for detailed course information.

Sections

WARRIOR NATION:U.S.&RU

02374	ILVS009203	E+MW	Carleton, Grego	1.0	C-lst Rus 9201, In English
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PALESTINIAN LIT & CINEMA

04526	ILVS009207	9+	Staff	1.0	In English; C-list Arb9207
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FILM&NATION:RUS&CEN ASIA

04527	ILVS009210	ARR	Johnson, Vida T	1.0	Meets Tr 4:30-7:00; C-list Rus 9202, Civ 9102
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FANTASY IN WORLD CULTURE

04119	ILVS009214	7	Napier, Susan	1.0	In English
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CHINA AND THE WEST

04528	ILVS009218	ARR	Zhong, Xueping	1.0	Meets Wed 4:00-7:00pm; In English; C-list Chns19201
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IMAGINING THE CITY

02376	ILVS009220	10+	Senderovich, Al	1.0	In English
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INTRO TO YIDDISH CULTURE

04529	ILVS009221	H+	Gittleman, Sol	1.0	C-lst Rel 65, Js 65
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ILVS0192
SPECIAL TOPICS

Please see departmental website for specific details.

Sections

FRANCOPHONE LIT

04550	ILVS019222	E+MW	Schub, Claire	1.0	Taught In French. Pre-req Fr 31 & 32 Or Consent
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ILVS0194
DIRECTED STUDY

Directed Study.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02384	ILVS019402		Carleton, Grego	1.0	Permission Of Instructor
02385	ILVS019403		Hirata, Hosea	1.0	Permission Of Instructor
02386	ILVS019404		Inouye, Charles	1.0	Permission Of Instructor
02388	ILVS019407		Rosenberg, Joel	1.0	Permission Of Instructor
02389	ILVS019408		Zhong, Xueping	1.0	Permission Of Instructor

ILVS0199
SENIOR HONORS THESIS

Senior Honors Thesis.

Please see departmental website for specific details.

Sections

02390	ILVS019901		Inouye, Charles	1.0	Year Long Course
04046	ILVS019902	TBA	Baffoni-licata,	1.0	Permission Of Instructor
04047	ILVS019903	TBA	Carleton, Grego	1.0	Permission Of Instructor
04048	ILVS019904	TBA	Gerassi-navarro	1.0	Permission Of Instructor
04049	ILVS019905	TBA	Dunn, Kevin	1.0	Permission Of Instructor
04050	ILVS019906	TBA	Grossman, Barba	1.0	Permission Of Instructor
04051	ILVS019907	TBA	Haber, Judith D	1.0	Permission Of Instructor
04052	ILVS019908	TBA	Hirata, Hosea	1.0	Permission Of Instructor
04053	ILVS019909	TBA	Inouye, Charles	1.0	Permission Of Instructor
04054	ILVS019910	TBA	Johnson, Vida T	1.0	Permission Of Instructor
04055	ILVS019911	TBA	Lane, Brigitte	1.0	Permission Of Instructor
04057	ILVS019913	TBA	Naginski, Isabe	1.0	Permission Of Instructor
04058	ILVS019914	TBA	Napier, Susan	1.0	Permission Of Instructor
04059	ILVS019915	TBA	Pollina, Vincen	1.0	Permission Of Instructor
04060	ILVS019916	TBA	Romero, Christi	1.0	Permission Of Instructor
04061	ILVS019917	TBA	Rosenberg, Joel	1.0	Permission Of Instructor
04062	ILVS019918	TBA	Zhong, Xueping	1.0	Permission Of Instructor

International Relations

INTR0091

INTR RESEARCH COLLOQUIUM

Provides classroom instruction, Web-based communication, and faculty support to promote and facilitate the development of high-quality research projects and post-graduate research proposals with an international focus. Designed for second-semester sophomores who anticipate eventual development of any of the following projects: a senior honors thesis, a senior seminar paper, an integrative capstone project for a minor or related major field, a directed study with an individual faculty member, a research project as a component of a study-abroad experience, or a research proposal required as part of an application for national and international scholarships (such as the Fulbright program). Open to students of all majors. One-half credit. Spring.

Sections

02391 INTR009101 CW Penvenne, Jeann 0.5 C-1st Hist 178

02405	INTR019801	ARR	Eichenberg, Ric	1.0
02406	INTR019802	ARR	Greenhill, Kell	1.0
02407	INTR019803	ARR	Penvenne, Jeann	1.0
02408	INTR019804	ARR	Shevel, Oxana	1.0
02409	INTR019805	ARR	Art, David	1.0
02410	INTR019806	ARR	Taylor, Rosemar	1.0
02411	INTR019807	ARR	Shaw, Rosalind	1.0
02412	INTR019808	ARR	Mistry, Jayanth	1.0
02413	INTR019809	ARR	Leupp, Gary	1.0
02414	INTR019810	ARR	Art, David	1.0
02415	INTR019811	ARR	Mulholland, Dan	1.0
02416	INTR019812	ARR	Hollander, Just	1.0
02417	INTR019813	ARR	Eichenberg, Ric	1.0
02418	INTR019814	ARR	Art, David	1.0
02419	INTR019815	ARR	Centner, Ryan	1.0
04184	INTR019816	ARR	Shevel, Oxana	1.0
04185	INTR019817	ARR	Greenhill, Kell	1.0

INTR0099

INTERNSHIP

Open to IR majors; internship must be supervised by a member of the IR core faculty and can be applied to the thematic cluster only. A complete description of the restrictions on this option can be found in the IR academic planning guide.

Please see departmental website for specific details.

Sections

02393 INTR009901 ARR Staff 1.0 Permission Of Instructor, Reg In Cabot 605

INTR0194

INDEPENDENT STUDY

Concentrated study on a topic of special interest growing out of regular course work or participation in programs not directly involved in the IR curriculum. Available to IR majors only by petition (see guidelines in the IR academic planning guide). Counts for thematic clusters only.

Please see departmental website for specific details.

Prerequisites: Two courses in the proposed field of study.

Sections

02395 INTR019401 ARR Staff 1.0 Permission Of Instr, Reg In Cabot 605 Ir Office
02396 INTR019402 ARR Staff 1.0

INTR0196

DIRECTED RESEARCH

An alternative to the IR seminar requirement, if relevant seminars are unavailable in the student's senior year. Available to IR majors only by petition (see guidelines in the IR academic planning guide). Requires the completion of a seminar-type research paper consistent with the student's IR focus.

Please see departmental website for specific details.

Sections

02397 INTR019601 ARR Staff 1.0-3.0 Permission Of Instructor, Reg In Cabot 605
02398 INTR019602 ARR Staff 1.0-3.0
02399 INTR019603 ARR Staff 1.0-3.0
02400 INTR019605 ARR Staff 1.0-3.0
02401 INTR019607 ARR Staff 1.0-3.0
02402 INTR019608 ARR Staff 1.0-3.0
02403 INTR019609 ARR Staff 0.0-3.0

INTR0198

SENIOR HONORS THESIS IR

A two-semester honors thesis representing the highest level of work available to undergraduate IR majors. For high-demand enrollment guidelines, see the IR academic planning guide.

Please see departmental website for specific details.

Sections

Italian

ITAL0001 ELEMENTARY ITALIAN I

For students having no previous knowledge of Italian who wish to achieve an active command of the language. Study of fundamental speech patterns. Listening comprehension and oral ability stressed from the outset; progressively greater emphasis on reading and writing skills. Language laboratory. Conducted in Italian. .

Sections

02420	ITAL0001A	D	Paolini, Elena	1.0
02421	ITAL0001B	J	Disilvio, Patri	1.0

ITAL0002 ELEMENTARY ITALIAN II

For students having no previous knowledge of Italian who wish to achieve an active command of the language. Study of fundamental speech patterns. Listening comprehension and oral ability stressed from the outset; progressively greater emphasis on reading and writing skills. Language laboratory. Conducted in Italian.

Prerequisites: ITAL 1 or equivalent.

Sections

02423	ITAL0002A	A	Paolini, Elena	1.0	Must Also Register For Recitation Must Also Register For Recitation Must Also Register For Recitation Must Also Register For Recitation Mon 12:00-12:40 Mon 12:45-1:25 Pm Tues 4:30-5:10 Pm Wed 12:00-12:40pm Wed 12:45-1:25pm
02424	ITAL0002B	E	Monteleone-wass	1.0	
02425	ITAL0002C	G	Grattarola, Ser	1.0	
02426	ITAL0002D	I	Grattarola, Ser	1.0	
02429	ITAL0002RA	ARR	Pausini, Cristi	0.0	
02430	ITAL0002RB	ARR	Pausini, Cristi	0.0	
02431	ITAL0002RC	ARR	Pausini, Cristi	0.0	
02432	ITAL0002RD	ARR	Pausini, Cristi	0.0	
02433	ITAL0002RE	ARR	Pausini, Cristi	0.0	

ITAL0003 INTERMEDIATE ITALIAN I

Continued presentation of grammar with emphasis on applying structural principles in oral and written work. Vocabulary building; regular written compositions; more extensive readings in Italian civilization. Language laboratory. Conducted in Italian.

Prerequisites: ITAL 2 or equivalent.

Sections

02435	ITAL0003A	C	Monteleone-wass	1.0	Ital 2 Or Consent
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ITAL0004 INTERMEDIATE ITALIAN II

Review of structural principles, refinement of language skills, including use of idiomatic expressions. Selected readings in contemporary Italian literature. Classroom discussions, oral presentations, and regular written compositions to improve accuracy of self-expression. Conducted in Italian.

Prerequisites: ITAL 3 or equivalent.

Sections

02436	ITAL0004A	D	Pausini, Cristi	1.0	Ital 3 Or Consent
02437	ITAL0004B	N	Disilvio, Patri	1.0	Ital 3 Or Consent

ITAL0022 COMP/CONV II

Continued advanced review of language structures; increasing emphasis on close reading of texts on modern Italian civilization. Study of a contemporary novel and film. Oral-aural work, classroom discussions, and writing assignments. Conducted in Italian.

Prerequisites: ITAL 4 or 21, or permission of instructor.

Sections

02438	ITAL0022A	J	Pausini, Cristi	1.0	Ital 4 Or 21 Or Consent
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ITAL0032 READINGS ITALIAN LIT II

Study of works representing significant currents of thought and expression from the eighteenth century through the twentieth. Lectures, discussions, and writing assignments. Emphasis on textual analysis. Conducted in Italian.

Prerequisites: ITAL 21 or 22, or permission of instructor.

Sections

02439	ITAL0032A	G+	Baffoni-licata,	1.0	Ital 21 Or 22 Or Consent
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ITAL0055 THE RINASCIMENTO

Major writers of the Italian Renaissance--Petrarca, Boccaccio, Castiglione, Ariosto, Machiavelli, Tasso, Cellini, and Michelangelo--studied in English translation.

Sections

04170	ITAL0055A	D+	Pollina, Vincen	1.0	In English
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ITAL0075 ITALIAN FILM

Survey of Italian film from World War II to the present. The rise of neorealism in films by Rossellini and Visconti, the transitional crisis of the 1950s exemplified by Fellini, and the introspective fantasy in Antonioni's and Fellini's middle periods. The increasing narrative complexity of Italian film in the context of cultural change. Films shown with English subtitles.

Sections

02441	ITAL0075A	6	Perricone, Isab	1.0	In English. Optional Film Screen Recitation
02442	ITAL0075R	ARR	Perricone, Isab	0.0	Film Screening Rct Sunday 5:15-7:45 P.m.
04597	ITAL0075RA	ARR	Perricone, Isab	1.0	U 0515pm-0745p m

ITAL0094 INDEPENDENT STUDY

(Conducted in English.) Guided individual study of an approved topic in Italian literature or civilization. Variable credit. No more than one credit in Independent Study may be counted toward the major in Italian Studies or the minor in Italian.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02444	ITAL009401	ARR	Baffoni-licata,	1.0	Permission Of Instructor
02445	ITAL009402	ARR	Pausini, Cristi	1.0	Permission Of Instructor
02446	ITAL009403	ARR	Pollina, Vincen	1.0	Permission Of Instructor

Italian

ITAL0121

ADVANCED ITALIAN LANG

In-depth study of contemporary Italian language. Emphasis on active control of grammar, syntax, and vocabulary, effective self-expression, and recognition of different styles.

Prerequisites: ITAL 21 and 22, or permission of Instructor.

Sections

02447	ITAL0121A	I+	Baffoni-licata,	1.0	Ital 21 And 22 Or Consent
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ITAL0192

SPECIAL TOPICS

(Conducted in Italian.) Courses on various topics in Italian literature or civilization. Topics may include Renaissance humanism; Romanticism and decadence; the realistic, futuristic, and hermetic movements; and others.

Please see departmental website for specific details.

Prerequisites: ITAL 31 and 32, or permission of instructor.

Sections

ITAL LIT OF HOLOCAUST

02448	ITAL0192A	M+	Baffoni-licata,	1.0	Ital 31 & 32 Or Consent
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ITAL0194

INDEPENDENT STUDY

(Conducted in Italian.) Guided individual study of an approved topic in Italian literature or civilization. Variable credit. No more than one credit in Independent Study may be counted toward the major in Italian Studies or the minor in Italian.

Please see departmental website for specific details.

Prerequisites: Two courses above ITAL 22 and permission of instructor.

Sections

02449	ITAL019401	ARR	Baffoni-licata,	1.0	Two Courses Above Ital 22 And Consent
02450	ITAL019402	ARR	Pausini, Cristi	1.0	Two Courses Above Ital 22 & Consent
02451	ITAL019403	ARR	Pollina, Vincen	1.0	Two Courses Above Ital 22 & Consent

ITAL0199

HONORS THESIS

Open to qualified students. Variable credit.

Please see departmental website for specific details.

Prerequisites: ITAL 31 and 32 and permission of instructor.

Sections

02452	ITAL0199BT			1.0	Ital 31 And 32 And Consent
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Japanese

JPN 0002

ELEMENTARY JAPANESE

Pronunciation, basic grammar, and conversation. An introduction to modern written Japanese, including hiragana and katakana syllabaries and some kanji.

Please see departmental website for specific details:
<http://ase.tufts.edu/grall/japanese/>.

Prerequisites: JPN 1 or equivalent.

Sections

02454	JPN 0002A	E+EF	Kagawa, Kiyomi	1.0	Preq: Jpn 1
02455	JPN 0002B	G+GF	Cheung, Jun-ono	1.0	Preq: Jpn 1
02456	JPN 0002C	C+CF	Koizumi, Shiori	1.0	Preq: Jpn1

JPN 0004

INTERMEDIATE JAPANESE

Continuation of elementary Japanese. Emphasis on grammar, reading, writing, and conversation.

Please see departmental website for specific details:
<http://ase.tufts.edu/grall/japanese/>.

Prerequisites: JPN 3 or equivalent.

Sections

02458	JPN 0004A	E+EF	Morita, Kiyoko	1.0	Preq: Jpn 3
02459	JPN 0004B	G+GF	Morita, Kiyoko	1.0	Preq: Jpn 3

JPN 0022

READING & CONVERSATION

Continuation of Intermediate Japanese with more emphasis on reading, writing, and conversation. A considerable portion of the class will be conducted in Japanese.

Please see departmental website for specific details:
<http://ase.tufts.edu/grall/japanese/>.

Prerequisites: JPN 21 or permission of instructor.

Sections

02460	JPN 002201	F+FF	Koizumi, Shiori	1.0	Preq: Jpn 21
02461	JPN 002202	H+HF	Koizumi, Shiori	1.0	Preq: Jpn 21

JPN 0061

INTRO JAPANESE CULTURE

A first course in Japanese culture. The interplay between two opposing ideas: evanescence (all things always changing) and form (the unchanging). Literature, art, and film - ancient, medieval, modern, and postmodern eras. Required for all Japanese majors. Taught in English. (May be taken at 100 level with consent.) Inouye.

Please see departmental website for specific details:
<http://ase.tufts.edu/grall/japanese/>.

Sections

02462	JPN 006101	K+	Inouye, Charles	1.0	In English
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JPN 0094

DIRECTED STUDY

Guided independent study in Japanese language and culture. This is a 1/2 credit course.

Please see departmental website for specific details:
<http://ase.tufts.edu/grall/japanese/>.

Prerequisites: Permission of instructor.

Sections

02465	JPN 009401		Hirata, Hosea	0.5	Permission Of Instructor
02466	JPN 009402		Inouye, Charles	0.5	Permission Of Instructor
02467	JPN 009403		Kagawa, Kiyomi	0.5	Permission Of Instructor
02468	JPN 009404		Koizumi, Shiori	0.5	Permission Of Instructor
02469	JPN 009405		Morita, Kiyoko	0.5	Permission Of Instructor
04121	JPN 009406	ARR	Napier, Susan	0.0	Permission Of Instructor

JPN 0114

GENDER IN JPN CULTURE

The role of femininity and masculinity in Japanese culture, from the writings of Murasaki Shikibu, creator of "The Tale of Genji" to the heroines of contemporary Japanese animation (anime). Our sources will include literature, film, essays, television series, manga (comics) and anime. The role of women as a repository of tradition, the use of women in contemporary horror films, the rise and fall of the iconic salaryman, the crisis in contemporary masculinity, and issues in queer sexuality. Taught in English.

Sections

04122	JPN 011401	J+	Napier, Susan	1.0	In English
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JPN 0115

HARUKI MURAKAMI

In-depth study of one of the most important contemporary Japanese writers, Haruki Murakami. Readings include A Wild Sheep Chase, Hard-Boiled Wonderland and the End of the World, Norwegian Wood, The Wind-up Bird Chronicle, and other works. Murakami's status as an international writer. His relation to American Literature. Taught in English. Hirata.

Please see departmental website for specific details:
<http://ase.tufts.edu/grall/japanese/>.

Sections

02470	JPN 011501	N+	Hirata, Hosea	1.0	In English, No Preq
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JPN 0122

ADVANCED JAPANESE II

Discussion of Japanese literary and nonliterary texts in Japanese.

Please see departmental website for specific details:
<http://ase.tufts.edu/grall/japanese/>.

Prerequisites: JPN 121 or permission of instructor.

Sections

02471	JPN 0122A	ARR	Morita, Kiyoko	1.0	I+hf, Mw3-415, F230-320, Preq Jpn121 Or Consent
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JPN 0124

ADVANCED READ JPN CULTURE

For students with a good command of Japanese. Fiction, poetry, film, newspaper articles, and journalistic essays. Course work includes careful preparation of texts, intensive review of kanji, oral and written reports.

Please see departmental website for specific details:
<http://ase.tufts.edu/grall/japanese/>.

Prerequisites: JPN 123 or equivalent.

Sections

02472	JPN 012401	I+	Kagawa, Kiyomi	1.0	Jpn 123 Or Consent, In Japanese
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JPN 0192

SPECIAL TOPICS/SEMINAR

Special seminar on selected topics in Japanese literature and culture. Enrollment limited to 15. Taught in Japanese.

Please see departmental website for specific details:
<http://ase.tufts.edu/grall/japanese/>.

Sections

JAPANESE GOTHIC

02473	JPN 019201	12+	Inouye, Charles	1.0	In English
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Japanese

JPN 0194

ADVANCED DIRECTED STUDY

Guided independent study of Japanese language and culture.

Please see departmental website for specific details:
<http://ase.tufts.edu/grall/japanese/>.

Prerequisites: Permission of Instructor.

Sections

02475	JPN 019401		Hirata, Hosea	1.0	Permission Of Instructor
02476	JPN 019402		Inouye, Charles	1.0	Permission Of Instructor
02477	JPN 019403		Kagawa, Kiyomi	1.0	Permission Of Instructor
02478	JPN 019404		Koizumi, Shiori	1.0	Permission Of Instructor
02479	JPN 019405		Morita, Kiyoko	1.0	Permission Of Instructor
04123	JPN 019406	ARR	Napier, Susan	0.0	Permission Of Instructor

JPN 0199

HONORS THESIS

See Thesis Honors Program for details.

Please see departmental website for specific details:
<http://ase.tufts.edu/grall/japanese/>.

Prerequisites: Permission of instructor.

Sections

02480	JPN 019901		Hirata, Hosea	1.0	Permission Of Instructor
04124	JPN 019902	ARR	Inouye, Charles	0.0	Permission Of Instructor
04125	JPN 019903	ARR	Kagawa, Kiyomi	0.0	Permission Of Instructor
04126	JPN 019904	ARR	Koizumi, Shiori	0.5	Permission Of Instructor
04127	JPN 019905	ARR	Morita, Kiyoko	0.5	Permission Of Instructor
04128	JPN 019906	ARR	Napier, Susan	0.5	Permission Of Instructor

Judaic Studies

JS 0065

INTRO YIDDISH CULTURE

(Cross-Listed as REL 65). An examination of the roots of East European Jewish culture, beginning with a 6000-year survey of the religions of Abraham; a brief examination of the origins of Judaism, the evolution of Christianity and Islam; the historic migration of the Jewish people from Asia to Western Europe and eventually to Czarist Russia; the rise and fall of Yiddish literature; the end of the Shtetl world; and the American experience. Readings include Sholom Aleichem, Sholem Asch, I. B. Singer, Bernard Malamud, and Phillip Roth. Stress on universal cultural patterns and similarities of ethnic experience.

Sections

02481 JS 006501 H+ Gittleman, Sol 1.0 C-1st Rel 65, lvs 92-21

JS 0078

JEWISH WOMEN

(Cross-listed as REL 78.) Images, experiences, and accomplishments of Jewish women in life, literature, and tradition from Biblical times to the present. Focus on individual women from various times and cultures; discussion of basic issues, present conditions, and prospects.

Sections

02482 JS 007801 J+ Ascher, Gloria 1.0 C-1st Rel 78

JS 0091

LADINO LANG & CULTURE

Courses on selected themes and authors in Hebrew literature and in Jewish literature translated from various languages (Hebrew, Aramaic, Arabic, Yiddish, Spanyol, German, Russian), including both classical and modern authors; and on selected subjects, such as Ladino language and culture and Israeli film.

Sections

02483 JS 009101 F+TR Ascher, Gloria 1.0 C-1st Spn 92-a

JS 0092

SPECIAL TOPICS

Courses on selected themes and authors in Hebrew literature and in Jewish literature translated from various languages (Hebrew, Aramaic, Arabic, Yiddish, Spanyol, German, Russian), including both classical and modern authors; and on selected subjects, such as Ladino language and culture and Israeli film.

Please see departmental website for specific details.

Sections

HOLOCAUST STAGE & SCREEN

04666 JS 009201 H+TR Grossman, Barba 1.0

JS 0094

DIRECTED STUDY

Guided independent study of an approved topic. Variable credit.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02485 JS 009401 Ascher, Gloria 1.0 Permission Of Instructor
02486 JS 009402 Gittleman, Sol 1.0 Permission Of Instructor
02487 JS 009403 Rosenberg, Joel 1.0 Permission Of Instructor

JS 0126

ROOTS JEWISH IMAGINATION

(Cross-listed as REL 126.) An introduction to Jewish myths, legends, mystical doctrines, and other subjects influential in the formation of Jewish imaginative literature. Topics include: the journey of the soul; the righteous sufferer; Jewish heresy; Jewish dream lore; the Messiah and the end of days; legends of the Golem; the dybbuk and exorcism; metamorphosis; hunger, food, fasting, and eating; the comic book and graphic novel; modern trauma and Jewish experience; Kabbalah, mysticism, and religious search; JuBus (Jewish Buddhists); modern Israel and her neighbors in contemporary writing. All texts read in English.

Sections

02489 JS 012601 ARR Rosenberg, Joel 1.0 Meets Wed 4:30-7:15 Pm, c-1st Rel 126

JS 0142

JEWISH EXP ON FILM

(Cross-listed as REL 142.) Selected classic and contemporary films dealing with aspects of Jewish experience in America, Europe, and Israel, combined with reading on the cultural and philosophical problems illuminated by each film. One weekly session will be devoted to screenings, the other to discussion of the films and readings. In English.

Sections

02490 JS 014201 ARR Rosenberg, Joel 1.0 T 4:30-7:30pm&r4 :30-5:45pm, c-1st Rel 142

JS 0194

DIRECTED STUDY

For advanced and graduate students. Variable credit.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02494 JS 019401 Ascher, Gloria 1.0 Permission Of Instructor
02495 JS 019402 Gittleman, Sol 1.0 Permission Of Instructor
02496 JS 019403 Rosenberg, Joel 1.0 Permission Of Instructor

JS 0199

SENIOR HONORS THESIS

See Thesis Honors Program for details.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02499 JS 019901 1.0 Permission Of Instructor

Latin

LAT 0002 ELEMENTARY LATIN II

Continuation of LAT 1. This course includes further syntax and grammar and techniques for building vocabulary. Readings from Latin authors of increasing difficulty.

Prerequisites: LAT 1 or placement.

Sections

02503	LAT 000201	E	Setnik, Susan	1.0	Lat 1 Or Consent Or Placement
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LAT 0022 LATIN POETRY

Selections from Catullus or Ovid.

Please see departmental website for specific details.

Prerequisites: LAT 3 or AP/Achievement scores or placement.

Sections

OVID

02504	LAT 002201	G+	Setnik, Susan	1.0	Latin 3 Or Placement, Consent
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LAT 0026 PROSE, POETRY ROMAN MED

A close reading of selections from Cato the Elder, Lucretius, Ovid, and Celsus as a reflection of the development of Roman prose, poetry, and medicine in the Roman Republic and Early Empire.

Prerequisites: LAT 21 and/or LAT 22.

Sections

04205	LAT 002601	G+	Phillips, Joann	1.0	Prereq: Latin 21 Or 22 Or Consent
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LAT 0102 ROMAN DRAMA

Reading from the comedies of Plautus and Terence or from the tragedies of Seneca.

Sections

TERENCE

04206	LAT 010201	H+	Beaulieu, Marie	1.0	Prereq: Latin 21 Or 22 Or Consent
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Leadership Studies Minor

LMS 0095

SPECIAL TOPIC

Seminar - Please see Leadership Studies website for detailed information. Half-credit course.

Sections

02512	LMS 009501	ARR	Norman, George	0.5	Permission Of Instructor
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Mathematics

Please Note: Exams in Math 5, 6, 11, 12, 13, and 38 occur on selected Mondays from noon to 1:20 PM.

MATH0005

INTRO TO CALCULUS

Functions and their graphs, limits, derivatives, techniques of differentiation. Applications of derivatives, curve sketching, extremal problems. Integration: indefinite and definite integrals, some techniques of integration, Fundamental Theorem of Calculus. Logarithmic and exponential functions with applications.

Prerequisites: High school geometry and algebra. MATH 5 is a one-semester calculus course and is not adequate preparation for MATH 12. Students entering Tufts starting in the fall of 2007 will receive an additional half-credit (with grade) for passing MATH 11 after receiving credit for MATH 5. MATH 11 must be taken at Tufts and for a grade in order to obtain this extra half-credit. The extra half-credit will not count toward the mathematical sciences distribution requirement. Students who matriculated before the fall of 2007 and who pass MATH 11 at Tufts after receiving credit for MATH 5 should seek approval from the mathematics department if they choose to obtain this extra half-credit. MATH 5 may not be taken for credit after receiving credit for MATH 11. Engineering students are not permitted to take MATH 5 for credit.

Sections

02513	MATH000501	C	Staff	1.0	Hs Geom, Alg (all Sections)
02514	MATH000502	C	Staff	1.0	
02515	MATH000503	D	Quinto, Eric To	1.0	
02516	MATH000504	F	Garant, Linda B	1.0	

MATH0006

INTRO TO FINITE MATH

Topics selected from financial mathematics, matrix algebra, linear inequalities and linear programming, counting arguments, and statistics and probability.

Prerequisites: High school geometry and algebra. (Math 5 is not a prerequisite.) Engineering students are not permitted to take MATH 6 for credit.

Sections

02517	MATH000601	C	Mcninch, George	1.0	Hs Geom, Alg (all Sections)
02518	MATH000602	D	Glaser, Mary E	1.0	
02519	MATH000603	F	Gonzalez, Fulto	1.0	

MATH0007

MATHEMATICS IN ANTIQUITY

History of mathematics in four ancient civilizations: Babylonian, Egyptian, Greek, and Chinese. Number systems and computational techniques; achievements in elementary algebra, geometry, and number theory; famous results, proofs and constructions. Emphasis on solving problems in the style and spirit of each culture.

Prerequisites: MATH 4 or equivalent. Engineering students are not permitted to take MATH 7 for credit.

Sections

04464	MATH000701	H+	Feigenbaum, Len	1.0	Math 4 Or Equivalent (all Sections); Seniors Only
04465	MATH000702	H+	Feigenbaum, Len	1.0	Juniors Only
04466	MATH000703	H+	Feigenbaum, Len	1.0	Sophomores Only
04467	MATH000704	H+	Feigenbaum, Len	1.0	First Years Only

MATH0008

SYMMETRY

A mathematical treatment of the symmetries of wallpaper patterns. The main goal is to prove that the symmetries of these patterns fall into seventeen distinct types. In addition, students will learn to identify the symmetries of given patterns (with special emphasis on the periodic drawings of M.C. Escher) and to draw such patterns. Three lectures, one section.

Prerequisites: High school geometry. Engineering students are not permitted to take MATH 8 for credit.

Sections

02523	MATH000801	D	Kaufmann, Gail	1.0	High School Geom/mandator y Recitation
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02521	MATH0008RA	EF	Ginsberg, Jonat	0.0	Must Also Reg For Math 8-01
02522	MATH0008RB	FF	Ginsberg, Jonat	0.0	Must Also Reg For Math 8-01

MATH0009

MATH OF SOCIAL CHOICE

Introduction to mathematical methods for dealing with questions arising from social decision making. Topics vary but usually include ranking, determining the strength of, and choosing participants in multicandidate and two-candidate elections, and apportioning votes and rewards to candidates.

Prerequisites: High school algebra. Engineering students are not permitted to take MATH 9 for credit.

Sections

02524	MATH000901	H+	Garant, Linda B	1.0	High School Algebra (all Sections); Seniors Only
02525	MATH000902	H+	Garant, Linda B	1.0	Juniors Only
04468	MATH000903	J+	Plante, Donald	1.0	Seniors Only
04469	MATH000904	J+	Plante, Donald	1.0	Juniors Only

MATH0010

INTRO SPECIAL TOPICS

Content and prerequisites vary from semester to semester.

Please see departmental website for specific details:
<http://math.tufts.edu>

Prerequisites: Engineering students are not permitted to take MATH 10 for credit.

Sections

INTRODUCTORY STATISTICS

02526	MATH001001	G+	Staff	1.0	High School Algebra And Geometry
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MATH0011

CALCULUS I

Differential and integral calculus: limits and continuity, the derivative and techniques of differentiation, extremal problems, related rates, the definite integral, Fundamental Theorem of Calculus, derivatives and integrals of trigonometric functions, logarithmic and exponential functions.

Prerequisites: High school geometry, algebra, and trigonometry. Students entering Tufts starting in the fall of 2007 will receive an additional half-credit (with grade) for passing MATH 11 after receiving credit for MATH 5. MATH 11 must be taken at Tufts and for a grade in order to obtain this extra half-credit. The extra half-credit will not count toward the mathematical sciences distribution requirement. Students who matriculated before the fall of 2007 and who pass MATH 11 at Tufts after receiving credit for MATH 5 should seek approval from the mathematics department if they choose to obtain this extra half-credit. MATH 5 may not be taken for credit after receiving credit for MATH 11.

Sections

02527	MATH001101	B	Hahn, Marjorie	1.0	Hs Geom, Alg, Trig (all Sections)
02528	MATH001102	D	Gutierrez, Maur	1.0	
02529	MATH001103	E	Ruane, Kim	1.0	
02530	MATH001104	F	Wolak, Mathew	1.0	

MATH0012

CALCULUS II

Applications of the integral, techniques of integration, separable differential equations, improper integrals. Sequences, series, convergence tests, Taylor series. Polar coordinates, complex numbers.

Prerequisites: MATH 11.

Sections

02531	MATH001201	B	Duchin, Moon	1.0	Math 11 (all Sections)
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Mathematics

02532	MATH001202	F	Walsh, Geneviev	1.0
02533	MATH001203	F	Glaser, Mary E	1.0
02534	MATH001204	F	Kaufmann, Gail	1.0
02535	MATH001205	H	Christensen, Je	1.0

**MATH0013
CALCULUS III**

Vectors in two and three dimensions, applications of the derivative of vector-valued functions of a single variable. Functions of several variables, continuity, partial derivatives, the gradient, directional derivatives. Multiple integrals and their applications. Line integrals, Green's theorem and related results.

Prerequisites: MATH 12 or 17.

Sections

02537	MATH001301	C	Adler, James	1.0	Math 12 (all Sections)
02538	MATH001302	D	Martin, Alberto	1.0	
02539	MATH001303	E	Adler, James	1.0	
02540	MATH001304	H	Maclachlan, Sco	1.0	

**MATH0018
HONORS CALCULUS III**

Analysis of real- and vector-valued functions of one or more variables using tools from linear and multilinear algebra; stress is on theoretical aspects of the subject, including proofs of basic results. Topics include: geometry and algebra of vectors in 3-space, parametrized curves and arc length, linear transformations and matrices; Jacobian and gradient of a real-valued function, Implicit Function Theorem, extrema, Taylor's Theorem and Lagrange multipliers; multiple integrals, differential forms and vector fields, line integrals, parametrized surfaces and surface integrals, exact and closed forms, vector calculus.

Prerequisites: MATH 17 or permission of instructor. Students who receive credit for MATH 18 cannot receive credit for MATH 13.

Sections

02541	MATH001801	E+	Nitecki, Zbigni	1.0	Math 17 Or Consent
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**MATH0022
DISCRETE MATHEMATICS**

(Cross-Listed as COMP 22.) Sets, relations and functions, logic and methods of proof, combinatorics, graphs and digraphs.

Prerequisites: MATH 11 or COMP 11 or permission of instructor.

Sections

02542	MATH002201	B	Weiss, Richard	1.0	Math 11 Or Comp 11 (all Sections)c-1st Comp22-01
02543	MATH002202	D+	Cowen, Lenore J	1.0	C-1st Comp 22-02

**MATH0038
DIFFERENTIAL EQUATIONS**

An introduction to linear differential equations with constant coefficients, linear algebra, and Laplace transforms.

Prerequisites: MATH 13 or 18.

Sections

02544	MATH003801	B	Qing, Yulan	1.0	Math 13 (all Sections)
02545	MATH003802	C	Hoft, Thomas	1.0	
02546	MATH003803	E	Hoft, Thomas	1.0	
02547	MATH003804	F	Christensen, Je	1.0	
02548	MATH003805	H	Gutierrez, Maur	1.0	

**MATH0041
NUMBER THEORY**

An introduction to number theory, including the Euclidean algorithm, congruences, primitive roots, and the law of quadratic reciprocity.

Prerequisites: MATH 11 or permission of instructor.

Sections

02549	MATH004101	E+WF	Mcninch, George	1.0	Math 11 Or Consent
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**MATH0046
LINEAR ALGEBRA**

An introduction to the theory of vector spaces and linear transformations over the real or complex numbers, including linear independence, dimension, matrix multiplication, similarity and change of basis, and some applications. Topics such as eigenvalues and eigenvectors, the Cayley-Hamilton theorem, and inner product spaces may be included.

Prerequisites: MATH 12 or 17 or permission of instructor. Students may count only one of MATH 46 and MATH 54 for credit.

Sections

02550	MATH004601	F+TR	Martin, Alberto	1.0	Math 12 Or 17 Or Consent (all Sections)
02551	MATH004602	K+	Tu, Loring W	1.0	

**MATH0050
SPECIAL TOPICS**

Content and prerequisites vary from semester to semester. Topics covered in recent years have included combinatorics, knots, and transition to advanced mathematics.

Please see departmental website for specific details:
<http://math.tufts.edu>

Sections

VOTING AND FAIR DIVISION

04470	MATH005001	L+	Borgers, Christ	1.0	Math 11
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**MATH0054
ABSTRACT LINEAR ALGEBRA**

An introduction to the theory of linear algebra starting with vector spaces. Subspaces, bases, dimension. Linear transformations, invariant subspaces, eigenvalues, eigenspaces, and diagonalizing linear operators. Inner product spaces and orthogonal projections. The emphasis will, in general, be on proofs rather than computation. Additional topics may include normal forms, minimal polynomials, determinant of an operator, normal operators over complex vector spaces as well as applications of linear algebra.

Prerequisites: MATH 12 or 17 or permission of instructor. Students may count only one of MATH 46 and MATH 54 for credit.

Sections

02553	MATH005401	D+	Walsh, Geneviev	1.0	Math 12 Or 17 Or Consent
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**MATH0128
NUMERICAL LINEAR ALGEBRA**

(Cross-listed as COMP 128.) The two basic computational problems of linear algebra: solution of linear systems and computation of eigenvalues and eigenvectors.

Prerequisites: MATH 46 or 54 and COMP 11.

Sections

04471	MATH012801	G+	Kilmer, Misha E	1.0	Math 46 Or 54 And Comp 11 Or Equiv/c-1st Comp 128
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**MATH0136
REAL ANALYSIS II**

Applications of ideas from MATH 135 to further, in-depth study of functions on Euclidean spaces. Derivatives as linear maps, differentiable mappings, inverse and implicit function theorems. Further topics such as theory of the Riemann and Lebesgue integral, Hilbert spaces, and Fourier series.

Prerequisites: MATH 135 or permission of instructor.

Sections

02557	MATH013601	H+	Quinto, Eric To	1.0	Math 135 Or Consent
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Mathematics

MATH0146

ABSTRACT ALGEBRA II

Further topics in groups and rings. Field extensions and Galois theory.

Prerequisites: MATH 145 or 215, or permission of instructor.

Sections

02559 MATH014601 C Ruane, Kim 1.0 Math 145 Or Consent

MATH0150

ADVANCED SPECIAL TOPICS

Content and prerequisites vary from semester to semester. Topics covered in recent years have included mathematical neuroscience, Lie algebras, and nonlinear dynamics and chaos.

Please see departmental website for specific details:
<http://math.tufts.edu>

Sections

STOCHASTIC PROCESSES

02561 MATH015001 E+MW Umarov, Sabir 1.0 Math 161

GROUP THEORY

04473 MATH015002 E Weiss, Richard 1.0 Math 145 Or Consent

NONLIN DYNAMICS & CHAOS

04474 MATH015003 J Borgers, Christ 1.0 Math 38 Or Consent

MATH0151

APPL OF ADVANCED CALC

The solutions of certain boundary-value problems in mathematical physics, including the following topics: inner-product spaces, function spaces, orthogonalization, Fourier series, orthogonal families of polynomials, Sturm-Liouville problems, separation of variables in partial differential equations, applications.

Prerequisites: MATH 38. ME 150 may be substituted for MATH 151 and in no case may both courses be taken for credit.

Sections

02562 MATH015101 G+ Umarov, Sabir 1.0 Math 38; Also Offered As Me 150

MATH0158

COMPLEX VARIABLES

Introduction to the theory of analytic functions of a single complex variable, analytic functions, Cauchy's integral theorem and formula, residues, series expansions of analytic functions, conformal representation, entire and meromorphic functions, multivalued functions.

Prerequisites: MATH 13 or 18, or permission of instructor.

Sections

02564 MATH015801 D+ Duchin, Moon 1.0 Math 13 Or 18 Or Consent

MATH0162

STATISTICS

Statistical estimation, sampling distributions of estimators, hypothesis testing, regression, analysis of variance, and nonparametric methods.

Prerequisites: MATH 161 or permission of instructor.

Sections

02565 MATH016201 F+ Hahn, Marjorie 1.0 Math 161 Or Consent

MATH0167

DIFFERENTIAL GEOMETRY

Study of basic notations of differential geometry in the context of curves and surfaces. Curvature and torsion, implicit function theorem, coordinate systems, first and second fundamental forms, geodesics, Gauss-Bonnet theorem.

Prerequisites: MATH 46 or 54, and 135, or permission of instructor.

Sections

04476 MATH016701 I+ Tu, Loring W 1.0 Math 46 Or 54, And 135, Or Consent

MATH0196

SENIOR HONORS THESIS

Thesis course for thesis honors candidates; see Thesis Honors Program for details. Open to seniors. Normally two credits.

Prerequisites: Permission of instructor.

Sections

02568 MATH019601 ARR Staff 1.0 Permission Of Instructor

MATH0212

TOPICS IN ANALYSIS

A topics course in analysis to reinforce or develop further the measure theory and point-set topology taught in MATH 211. Topics change from year to year, and the course may be taken more than once for credit. Past topics have included linear operators and spectral theory, distributions and Fourier transforms, probability, ergodic theory, and dynamical systems.

Prerequisites: MATH 211 or equivalent, or permission of instructor.

Sections

DYNAMICAL SYSTEMS

02569 MATH021201 H+ Hasselblatt, Bo 1.0 Math 211 Or Consent

MATH0216

TOPICS IN ALGEBRA

Special topics in algebra, such as commutative algebra, homological algebra, and representation theory at the discretion of the instructor.

Prerequisites: MATH 215 or equivalent, or permission of instructor.

Sections

COMMUTATIVE ALGEBRA

02570 MATH021601 C Teixidor I Biga 1.0 Math 146 Or 215

MATH0250

GRADUATE SPECIAL TOPICS:

Please see departmental website for specific details:
<http://math.tufts.edu>

Sections

STOCHASTIC DIFF EQNS

02572 MATH025001 E+ Umarov, Sabir 1.0 Math 38 And Math 161

APPL MATH CLASSIC PAPERS

02573 MATH025002 F+TR Maclachlan, Sco 1.0 Permission Of Instructor

BRAID THEORY

02574 MATH025003 G+ Nitecki, Zbigni 1.0 Basic Algebraic Topology & Some Group Theory

NUMERICAL LINEAR ALGEBRA

02575 MATH025004 I+ Kilmer, Misha E 1.0 Permission Of Instructor

LIE GROUPS

04479 MATH025005 L+ Gonzalez, Fulto 1.0 Math 217

MATH0295

THESIS

Guided research on a topic that has been approved as suitable for a master's thesis. Credit as arranged.

Prerequisites: Permission of instructor.

Sections

02581 MATH029501 ARR Staff 1.0 Permission Of Instructor

Mathematics

MATH0296

THESIS

Guided research on a topic that has been approved as suitable for a master's thesis. Credit as arranged.

Prerequisites: Permission of instructor.

Sections

02582	MATH029601	ARR	Staff	1.0	Permission Of Instructor
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MATH0297

GRADUATE RESEARCH

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Prerequisites: Permission of instructor.

Sections

02584	MATH029701	ARR	Staff	1.0	Permission Of Instructor
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MATH0298

GRADUATE RESEARCH

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Prerequisites: Permission of instructor.

Sections

02585	MATH029801	ARR	Staff	1.0	Permission Of Instructor
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MATH0401

MASTERS DEGREE CONT P/T

Sections

02590	MATH0401PT	ARR	Staff	0.0	
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MATH0402

MASTERS DEGREE CONT F/T

Sections

02591	MATH0402FT	ARR	Staff	0.0	
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MATH0501

DOCTORAL CONTIN P/T

Sections

02594	MATH0501PT	ARR	Staff	0.0	
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MATH0502

DOCTORAL CONTIN F/T

Sections

02595	MATH0502FT	ARR	Staff	0.0	
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Mechanical Engineering

ME 0001

MECH DESIGN & FAB

Fabrication techniques focusing on manual and CNC machines. Engineering drawings. Fundamentals of machine design. Elastic and plastic deformation, theories of failure, impact, and fatigue of machine elements. The design of machines is approached through selected design problems that are integrated throughout the course.

Prerequisites: ES 5 (Statics and Dynamics)

Sections

02600	ME 000101	DTR	Saigal, Anil	1.0	Lab Section Required
04532	ME 0001L1	ARR	Staff	0.0	Meets In Me Undergrad Lab
04533	ME 0001L2	ARR	Staff	0.0	Meets In Me Undergrad Lab
04534	ME 0001L3	ARR	Staff	0.0	Meets In Me Undergrad Lab

ME 0016

HEAT TRANSFER

A first course in thermal analysis. Steady-state and transient conduction in solids; numerical solution of conduction problems; radiative heat transfer; forced and natural convection. Introduction to boiling and condensation heat transfer. Heat exchanger analysis. A mandatory weekly lab session designated as ME 16L (no credit) must be taken concurrently. These scheduled laboratory periods involve either experiments from ME 16 or 37, demonstrations both experimental and computational, and problem-solving recitations.

Prerequisites: ES 7 and 8, MATH 38.

Sections

02602	ME 001601	F+TF	Hodes, Marc	1.0
02603	ME 001602	D+	Abedian, Behrou	1.0

ME 0018

INSTRUMENTS/EXPERIMENTS

Design, execution, and analysis of experiments in different fields of mechanical engineering, such as fluid mechanics, heat transfer, dynamics, and materials. Specific topics include sensors, software-based data acquisition, instrument control, data reduction, report writing, and statistical analysis.

Sections

02607	ME 001801	EMW	Leisk, Gary	1.0	Lab Section Required
02608	ME 001802	EMW	Wong, Peter Y	1.0	Lab Section Required
04535	ME 0018L1	ARR	Staff	0.0	Meets In Me Undergrad Lab
04536	ME 0018L2	ARR	Staff	0.0	Meets In Me Undergrad Lab
04665	ME 0018L3	ARR	Staff	0.0	Meets In Me Undergrad Lab

ME 0080

SYSTEM DYNAMICS&CONTROLS

Fundamental design concepts in modeling and control of dynamic electromechanical systems. Differential mathematical models of continuous system physics. Behavior in the time and frequency domains. Performance tuning using feedback control, proportional-integral-derivative controllers, sensors, actuators, root locus methods, and frequency response methods. Computer tools for design and measurement.

Prerequisites: ME 37.

Sections

02609	ME 008001	L	White, Robert	1.0	Lab Section Required
02610	ME 008002	K	Staff	1.0	
04649	ME 0080L1	ARR	Staff	0.0	Meets In Me Undergrad Lab
04650	ME 0080L2	ARR	Staff	0.0	Meets In Me Undergrad Lab

ME 0094

UNDERGRADUATE RESEARCH

Independent undergraduate research in the field of mechanical engineering. Please see departmental website for specific details.

Prerequisites: Permission of instructor and Department Chair.

Sections

02611	ME 009401	ARR	Hannemann, Robe	1.0	Advisor Approval
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ME 0096

THESIS

Supervised research in some specialized field of mechanical engineering. Please see departmental website for specific details.

Prerequisites: Permission of instructor and Department Chair.

Sections

02612	ME 009601	ARR	Hannemann, Robe	1.0	Advisor Approval
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ME 0099

INTERNSHIPS IN ME

A mentored preprofessional experience in mechanical engineering at an off-site organization. The internship must conform to all the requirements of the School of Engineering Internship Program. The department will grant course credit for internships if the following conditions are met: 1) The student submits a written internship proposal that is approved by the department prior to the semester in which the internship will be performed (no internships with course credit will be approved once the semester of the internship has started), 2) a faculty mentor has supervisory control of any work that receives credit, and 3) a written report is submitted that will be evaluated by the faculty adviser and the outside institutional supervisor.

Prerequisites: Junior or senior standing. Permission of Instructor.

Sections

02613	ME 009901	ARR	Hannemann, Robe	1.0	Advisor Approval
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ME 0102

INVENTIVE DESIGN

The invention, design, and development of new products. The identification of product opportunities from marketing, manufacturing, and consumers' viewpoints. The organization of new product effort within a corporation. Primary assignments are design projects that are presented before a jury of professionals in the field.

Prerequisites: Senior Standing.

Sections

02614	ME 010201	K+	Leisk, Gary	1.0
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ME 0112

THERM-FLUID TRANSPORT II

(Cross-listed as CHBE 112). Multi-dimensional conduction. Transient conduction including moving boundary problems. External forced and natural convection. Internal forced and natural convection. Developing flows and transition to turbulence. Condensation and boiling heat transfer. Radiation and conjugate heat transfer involving radiation. Temperature and heat flux measurements. Numerical techniques.

Prerequisites: ME 111 Thermal-Fluid Transport I or equivalent.

Sections

02615	ME 011201	N+	Hodes, Marc	1.0
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Mechanical Engineering

ME 0125

MANF PROC & MATRL TECH

A study of traditional and nontraditional manufacturing processes related to processing of metals, ceramics, and polymers, including computer-aided manufacturing. Topics include properties and behavior of materials, selection of materials and processes subject to surface finish, tolerance, design, and economic constraints.

Prerequisites: ME 25.

Sections

02617	ME 012501	12+	Saigal, Anil	1.0
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ME 0127

POLYMER MATERIALS & PROC

Design processes for developing plastic parts. Physical, rheological, environmental and electrical properties of engineering polymers. Material selection methods, mold filling simulation techniques for plastics, mechanics of polymer processing, mold design techniques, secondary assembly techniques, secondary plastic part processing. Agency considerations and economics. Applications in injection molding.

Prerequisites: ME 25 or permission of instructor.

Sections

02618	ME 012701	10+	Zimmerman, Mich	1.0
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ME 0145

POWER GENERATION SYSTEMS

Design and engineering of electric power production systems. Thermal-mechanical principles of electrical energy conversion, cogeneration, and storage using fossil fuel, geothermal, hydroelectric, nuclear, ocean, solar thermal, and wind power sources. Direct generation using fuel cells and photovoltaics. Economic and environmental sustainability aspects.

Prerequisites: Senior standing. ES 7 and 8, or equivalent thermal-fluids background with permission of instructor.

Sections

02619	ME 014501	I+	Hannemann, Robe	1.0
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ME 0150

APPLD MTH FOR ENGNRS

Review of ordinary differential equations and oscillatory phenomena. Fourier series and applications. Orthogonal functions, Bessel functions. Partial differential equations and their applications to fluid mechanics, heat transfer, vibration and wave propagation. In no case may both ME 150 and MATH 151 be taken for credit.

Prerequisites: MATH 38 or equivalent.

Sections

02621	ME 015001	G+	Umarov, Sabir	1.0	Preq:math 38; Also Offered As Math 151
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ME 0181

ADV DYNAMICS/VIBRATIONS

Kinematics and dynamics of rigid bodies in three dimensions. Lagrange's equations for the derivation of system equations of motion. Vibrations of strings, beams, membranes, and plates. Linear partial differential equations. Modal analysis of vibrations. Introduction to numerical solution of nonlinear ordinary differential equations. Computer tools, measurement of vibration, and the design of mechanisms.

Prerequisites: ME 180 or consent.

Sections

02623	ME 018101	K+	Greif, Robert	1.0
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ME 0265

FLOW-REAL VISCOUS FLUIDS

Stress tensor in viscous fluids, incompressible boundary-layer equations, Blasius equation, Karman-Polhausen method, semiempirical and statistical theories of turbulence.

Sections

04115	ME 026501	D+	Rogers, Chris	1.0	Prereqs: Me111 & Me112
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ME 0292

GRADUATE SEMINAR

Presentation of individual reports on basic topics to a seminar group for discussion and criticism. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02630	ME 029201	H+R	Hannemann, Robe	0.0	Required For Ft Grads
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ME 0296

MASTER'S THESIS

Guided research on an approved topic suitable for a master's thesis. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02632	ME 029601	ARR	Hannemann, Robe	1.0-2.0	Advisor Approval
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ME 0298

GRADUATE RESEARCH

Guided research on a topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02633	ME 029801	ARR	Hannemann, Robe	1.0-3.0	Advisor Approval
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ME 0299

MASTER OF ENGIN PROJECT

Execution of a major project equivalent to one course credit under the guidance of a faculty adviser. Each project must address a substantive engineering analysis or design problem. Students are required to submit a written report and make an oral presentation of their project work. Students are expected to enroll in this course in the last term of their degree program. Enrollment is limited to and required for matriculated students in the master of engineering program.

Prerequisites: Permission of instructor.

Sections

02634	ME 029901	ARR	Hannemann, Robe	1.0	Advisor Approval
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ME 0401

MASTER'S DEGREE CONT.

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02635	ME 0401PT	ARR	Hannemann, Robe	0.0	Advisor Approval
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Mechanical Engineering

ME 0402

MASTER'S DEGREE CONT.

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02636	ME 0402FT	ARR	Hannemann, Robe	0.0	Advisor Approval
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ME 0501

DOCTORAL DEGREE CONT

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02639	ME 0501PT	ARR	Hannemann, Robe	0.0	Advisor Approval
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ME 0502

DOCTORAL DEGREE CONT

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02640	ME 0502FT	ARR	Hannemann, Robe	0.0	Advisor Approval
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Modern Languages

ML 0022

READING, COMP & CONV 2

A sixth semester of a modern language other than those regularly offered at Tufts.

Sections

02641	ML 002201	Downing, Carol	1.0	Created To Accommodate Dars/degree Cert.do Not Delete
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ML 0096

ROMANCE LINGUISTICS

(Cross-listed as LING 96). Broad overview of linguistic complexity of the Romance languages, their relation to the greater Indo-European group, and their specific transformation over many centuries. Basic synchronic and diachronic linguistic description and analysis.

Consideration of social, geographical, political, and cultural factors that hastened the fragmentation of Vulgar Latin and the development of its modern descendants, relation of language to cultural identity, and the advantages and disadvantages that this mosaic of languages poses for the European Union. In English.

Prerequisites: Knowledge of at least one Romance language (2 semesters) or Latin, or consent.

Sections

02642	ML 009601	G+	Julian, John	1.0	In English. Crosslisted Ling 96
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Music

**MUS 0001
INTRO TO WESTERN MUSIC**

Introduction to selected forms and genres of Western music. Emphasis on analytical listening and cultural critique through guided examinations of both the formal organization and the social/cultural background of a wide range of musical styles. Previous musical training not required.

Sections

02644 MUS 000101 J+ Rose, Gilbert 1.0

**MUS 0003
INTRO TO WORLD MUSIC**

Exploration of diverse musical traditions around the world. Musical systems, musical instruments, lives of musicians, social settings of performance, music, and culture. Previous musical training not required.

Sections

02645 MUS 000301 F+TR Locke, David 1.0

**MUS 0010
INTRO MUSIC THEORY**

Exploration of the basics of music theory, including notation, scales and modes, intervals, triads, seventh chords, chord progressions, rhythm, melody, form, and composition. An introduction to ear training, sight singing, and keyboard skills. Intended for nonmajors.

Sections

02646 MUS 001001 G+ Mcdonald, John 1.0
02647 MUS 001002 I+MW Mccann, John 1.0

**MUS 0012
INTRO POP MUS THEORY**

A study of the structure and forms used in popular music through score analysis, transcription, and aural skills. Focus includes the innovation and development within specific genres, as well as their shared common practices. Genres studied will include: rhythm and blues, soul, funk, hip-hop, rock, folk, musical theater numbers, and ballads from the 30's -50's.

Prerequisites: MUS 10 or consent.

Sections

04153 MUS 001201 D+ Mclaughlin, Mic 1.0

**MUS 0026
BEETHOVEN**

Beethoven's life and music (orchestral, chamber, solo, and vocal works), explored as an expression of cultural values central to his own times and still powerful today. Classical musical conventions and innovations that Beethoven inherited; the emergence of his musical persona as "hero"; the meditative character of many of his late works. His overarching influence on subsequent composers, critics, and theorists; his impact on romanticist, philosophical, ethical, literary, and political thought.

Sections

04154 MUS 002601 E+MW Schmalfeldt, Ja 1.0

**MUS 0032
COMPOSER OF THE YEAR**

A study of an important composer. Focus on significant works in the context of the composer's life and times.

Sections

PIERROT PROJECT

04155 MUS 003201 ARR Berman, Donald 1.0

No Prereq,
Open To
Performers And
Non-performers

**MUS 0042
HISTORY OF JAZZ**

Major figures and schools of this American music approached primarily through detailed study of recordings dating from about 1914 through the present. Artists include Louis Armstrong, Duke Ellington, Charlie Parker, Miles Davis, John Coltrane, and many others.

Sections

02651 MUS 004201 G+ Ullman, Michael 1.0

**MUS 0044
HISTORY OF ROCK 'N' ROLL**

An examination of sociocultural meaning and musical structure in rock 'n' roll and related idioms of popular music. Emergence of the idiom in context of the history of American music. Connections among various styles and major artists. Impact of technology and the music industry.

Sections

04156 MUS 004401 H+TR Pennington, Ste 1.0

**MUS 0059
PSYCHOLOGY OF MUSIC**

(Cross-listed as PSY 80.) Examination of a wide range of topics in the psychology of music: music perception; music cognition; music aesthetics; music and emotions; the influence of music on human behavior; the nature and measurement of musical abilities; music education; and child development.

Sections

02654 MUS 005901 J+ Cook, Robert G 1.0 C-1st Psy 80

**MUS 0064
COMPUTER TOOLS-MUSICIANS**

Using computer technology to compose, arrange, synthesize, transcribe, orchestrate, mix, and publish music. Tools to be covered include ProTools, Sibelius, Reason, and Digital Performer. Students will complete several creative projects using music hardware and software. Prerequisites: Music performance and/or composition experience, ability to read music, facility at the keyboard, familiarity with the Macintosh operating system.

Sections

02655 MUS 006401 K+ Lehrman, Paul D 1.0 Permission Of Instructor

**MUS 0066
ELEC MUS INST DESIGN**

(Cross-listed as ES 95.) Non-standard electronic musical instruments or "controllers," incorporating sensors that respond to touch, position, movement, finger pressure, wind pressure, and other human factors, and their translation to Musical Instrument Digital Interface (MIDI) data. Designing and building original systems using common materials and object-oriented music-specific programming languages and software-based synthesis. Students will complete several creative projects using music hardware and software.

Prerequisites: Experience in one or more of the following--electronic music, electronic prototyping, mechanical engineering, computer programming.

Sections

02656 MUS 006601 G+ Lehrman, Paul D 1.0 C-1st Es 95-me

**MUS 0068
PRIVATE LESSONS**

Individualized instruction by the Performance faculty or with private teachers approved by the department in an instrument or voice. Broad range of private lessons including Classical, Jazz, Rock, Klezmer, Eastern European, Middle Eastern, Arabic, North African, Mediterranean, Indian, and Japanese vocal and instrumental music: voice, winds, brass, strings, percussion, harp, guitar, piano, harpsichord, shakuhachi, viola da gamba, koto, and ud. Admission is by audition. For details, consult the Coordinator of Performance Studies. Extra tuition per semester is charged for this course; for music majors or minors, ninety percent of this fee will be waived for two semesters. Note: voice students must study for non-credit in the first semester and audition by trial jury to be accepted for credit. One-half course credit.

Prerequisites: Fourth-year level of competence.

Music

Sections

02659	MUS 006801	ARR	Auner, Edith Lo	0.5	
02660	MUS 006802	ARR	Auner, Edith Lo	0.5	For Second Instrument
02657	MUS 0068N1	ARR	Auner, Edith Lo	0.0	
02658	MUS 0068N2	ARR	Auner, Edith Lo	0.0	For Second Instrument

MUS 0069

TUFTS CONCERT CHOIR

Music for large vocal forces ranging from Bach to Bernstein, including major works in the Western canon, recent compositions, and arrangements of non-Western choral music. One-half course credit.

Sections

02662	MUS 006901	K+	Kirsch, Jamie	0.5	
02661	MUS 0069NC	K+	Kirsch, Jamie	0.0	No Credit, Pass/fail Only

MUS 0070

TUFTS CHAMBER SINGERS

Works for a small vocal ensemble, primarily a cappella, including Renaissance motets and madrigals, arrangements of jazz, pop, and Broadway, compositions by contemporary composers, and non-Western music. One-half course credit.

Prerequisites: MUS 69 (Tufts Concert Choir).

Sections

02664	MUS 007001	I+	Kirsch, Jamie	0.5	.5 Credit
02663	MUS 0070NC	I+	Kirsch, Jamie	0.0	No Credit, Pass/fail

MUS 0072

GOSPEL CHOIR

Selected repertory of choral works from the African American tradition of religious music. No prerequisite or previous musical experience necessary. One-half course credit.

Sections

02666	MUS 007201	ARR	Coleman, David	0.5	Fri 3:30-5:30/.5 Credit
02667	MUS 007202	K+M	Coleman, David	0.0	Coreq For Mus 72-02,03, Or 04
02668	MUS 007203	L+T	Coleman, David	0.0	Coreq For Mus 72-02, 03, Or 04
02669	MUS 007204	G+W	Coleman, David	0.0	Coreq For Mus 72-02, 03, Or 04
02665	MUS 0072NC	ARR	Coleman, David	0.0	Fri 3:30-5:30/0 Crdt Pass-fail

MUS 0074

OPERA ENSEMBLE

Music for beginning opera singers with emphasis on development of musical skills, staging techniques, acting and singing skills, and role interpretation. Public performance of opera scenes, including solo arias. One-half course credit.

Sections

02671	MUS 007401	ARR	Mastrodomenico,	0.5	Tue 4:30-6:30/.5 Crdt
02670	MUS 0074NC	ARR	Mastrodomenico,	0.0	Tr 4:30-6:30/0 Crdt,pass-fail

MUS 0077

TUFTS JAZZ ORCHESTRA

Jazz instrumental and ensemble improvisation skills developed through performance of classical jazz compositions and recent works for big band. Elements of jazz, including rhythms, blues, and other traditional song forms; jazz melody and harmony. One-half course credit.

Sections

02673	MUS 007701	ARR	Smith, Joel L	0.5	Tr 4:30-6:30/.5 Credit
02672	MUS 0077NC	ARR	Smith, Joel L	0.0	Tr 4:30-6:30/no Credit Pass Fail

MUS 0078

JAZZ IMPROVISATION ENSEM

Focus on a practical knowledge of jazz improvisation in small combo settings; includes blues and AABA structures, turnarounds, construction of chords, phrasing, scale and chord relationships, and rhythmic pulse. One-half course credit.

Sections

02677	MUS 007801	ARR	Ahlstrand, Paul	0.5	M 0645pm-945pm
02678	MUS 007802	ARR	Aruda, Scott	0.5	W 0645pm-0945pm
02674	MUS 0078N1	ARR	Ahlstrand, Paul	0.0	No Credit/pass-fail Only
02675	MUS 0078N2	ARR	Aruda, Scott	0.0	No Credit Pass/fail

MUS 0080

TUFTS SYMPHONY ORCHESTRA

Music ranging from the Baroque to the twenty-first century. Major works for chorus and orchestra regularly undertaken with the Tufts Concert Choir. One-half course credit.

Sections

02681	MUS 008001	ARR	Rose, Gilbert	0.5	Tr 4:30-6:45/.5 Crdt
02680	MUS 0080NC	ARR	Rose, Gilbert	0.0	Tr4:30-6:45/no Crdt,pass-fail

MUS 0083

UNIVERSITY WIND ENSEMBLE

Symphonic band and wind ensemble literature as well as contemporary works. One-half course credit.

Sections

02683	MUS 008301	ARR	Mccann, John	0.5	Mw 0430pm-0630pm
02682	MUS 0083NC	ARR	Mccann, John	0.0	0 Credit,pass-fail

MUS 0086

NEW MUSIC ENSEMBLE/NME

Recently written compositions by both established and student composers; free improvisation. Frequent performances. One-half course credit.

Sections

02685	MUS 008601	ARR	Berman, Donald	0.5	Arr W 4:00-6:00
02684	MUS 0086NC	ARR	Berman, Donald	0.0	No Credit, Pass-fail Only

MUS 0087

EARLY MUSIC ENSEMBLE/EME

Music from the medieval period to the eighteenth century. Ensembles include recorder consorts, lute ensemble, Renaissance wind band, small vocal ensembles, viols, and mixed ensemble. One-half course credit.

Sections

02687	MUS 008701	ARR	Hershey, Jane	0.5	T 0630pm-0930pm
02686	MUS 0087NC	ARR	Hershey, Jane	0.0	No Credit,pass/fail Only

MUS 0088

FLUTE ENSEMBLE

Composed of members of the flute family (piccolos, C-flutes, alto flute, bass flute). Performs music from several centuries and a wide variety of styles (Renaissance, Bach, Debussy, Joplin, avant-garde). One-half course credit.

Sections

02689	MUS 008801	ARR	Barwell, Nina	0.5	0715pm-0845pm
02688	MUS 0088NC	ARR	Barwell, Nina	0.0	No Credit, Pass-fail Only

Music

MUS 0089

CHAMBER-MUSIC ENSEMBLES

Study and coaching of selected works for small chamber ensembles. Audition required. For details, consult the Coordinator of Performance Studies. One-half course credit.

Sections

02692	MUS 008901	ARR	Auner, Edith Lo	0.5	Audition Required
02690	MUS 0089NC	ARR	Auner, Edith Lo	0.0	No Credit, Pass-fail Only, Audition Required

MUS 0091

AFRICAN MUS ENS/KINIWE

Repertory of traditional singing, instrumental ensemble music, and dance. May be repeated for credit. One-half course credit.

Prerequisites: MUS 91-01 (Fall) is the prerequisite for MUS 91-02 (Spring).

Sections

04171	MUS 009101	I+MW	Agbeli, Tommy N	0.5	For Students New To Course
02696	MUS 009102	I+MW	Agbeli, Tommy N	0.5	For Students New To Course
04204	MUS 0091N1	I+	Agbeli, Tommy N	0.0	No Credit, Ass-fail Only, For New Students
02694	MUS 0091N2	I+	Staff	0.0	No Credit, Pass-fail Only, For New Students

MUS 0092

ARB MUS ENS-TUFTS TAKHT

Performance of both classical and folk Arabic music. The Maqam micro-tonal scale system as applied to both Western and Arabic instruments. Improvisation, form, style, rhythmic cycles, as well as Arabic vocal diction. Some Arabic Ouds (lutes) to be made available. One half-course credit.

Sections

02699	MUS 009201	ARR	Roustop, Kareem	0.5	C-1st Arb 92-05
02698	MUS 0092NC	ARR	Roustop, Kareem	0.0	M 0600pm-0830pm

MUS 0093

JAVANESE GAMELAN ENSEMBL

Central Javanese music performed on a gamelan orchestra, a traditional ensemble consisting of mostly percussion instruments--gongs and metallophones. Repertory drawn from the centuries-old court tradition as well as more modern works of post-independence Indonesia. One-half course credit.

Sections

02701	MUS 009301	ARR	Drummond, Barry	0.5	Audition Or Permission Of Inst
02700	MUS 0093NC	ARR	Drummond, Barry	0.0	No Credit/pass-fail Only,no Exp.audition Or Per

MUS 0095

KLEZMER ENS-JUMBO KNISH

Old style and current Klezmer music, the celebratory art originating with the Ashkenazi Jews of Eastern Europe. Improvisation of lead melodies. Arrangements and instrumental roles. One-half course credit.

Prerequisites: Instrumental fluency (intermediate to advanced).

Sections

02703	MUS 009501	ARR	Mclaughlin, Mic	0.5	W 0630pm-0900pm
02702	MUS 0095NC	ARR	Mclaughlin, Mic	0.0	No Credit/pass-fail Only

MUS 0097

SPECIAL TOPICS

Study and research in a course involving one or more of the following: music history, composition, ethnomusicology, music theory. Please see departmental website for specific details. Does not count toward the Music major.

Prerequisites: Depend upon topic and level of instruction.

Sections

ELECTRONIC ENSEMBLE

04157	MUS 009702	ARR	Lehrman, Paul D	0.0	Permission Of Instructor
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BAROQUE TRAVELS

04158	MUS 009703	H+	Staff	1.0	No Prereq,
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MUS 0099

INTERNSHIP COMMUNITY SRV

Opportunity for students to apply their musical training in a practical setting, including community-based, profit or nonprofit, governmental, or other sites. Individual faculty sponsor internships in their areas of expertise. Students will work for 100+ hours, must have an on-site supervisor, and complete a piece of meaningful scholarly work related to the internship area. May be repeated for credit.

Sections

02707	MUS 009901	ARR	Auner, Joseph	1.0	Consent Of Instructor
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MUS 0102

PRIN OF TONAL THEORY II

An integrated approach to tonal harmony, counterpoint, and the analysis of form within complete tonal movements. Attention given to the development of aural skills such as sight singing and dictation; concurrent enrollment in the Ear-Training Lab 0102-LA required.

Prerequisites: MUS 101 or placement through the Music Theory Placement Test.

Sections

02710	MUS 010201	G+	Schmalfeldt, Ja	1.0	Mus 101 Or Consent Of Instructor
02708	MUS 0102LA	FTR	Mclaughlin, Mic	0.0	Co-req Mus 102
02709	MUS 0102LB	IMW	Mclaughlin, Mic	0.0	Co-req Mus 102

MUS 0104

JAZZ THEORY

Harmonic and melodic techniques of jazz and popular music. Extended chords (ninths, elevenths, thirteenth) and substitutions; modulations and free melodic treatment of dissonance. Song forms. Written exercises and analysis; emphasis on student composition. Continuation of aural and keyboard skills.

Prerequisites: MUS 102 or permission of instructor.

Sections

02711	MUS 010401	F+TR	Smith, Joel L	1.0	Mus 102 Or Consent Of Instructor
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MUS 0109

MUSICAL SYS - ARAB WORLD

Arabic musical traditions from a music theory perspective. In-depth study of the modal system (maqām) and rhythmic cycles (iqā'āt), approaches to modulation and improvisation, ensemble texture, formal analysis, the relationship between theory and practice, and theories of music and emotion.

Prerequisites: MUS 101 or permission of instructor.

Sections

04159	MUS 010901	E+MW	Jankowsky, Rich	1.0	
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Music

MUS 0118

SEMINAR: COMPOSITION

A project-oriented course with emphasis on the creative experience. Lectures on significant composers; attendance at concerts of contemporary music.

Prerequisites: MUS 103 or permission of the instructor.

Sections

02713	MUS 011801	ARR	Mcdonald, John	1.0	Mus 102 Or Consent Of Instructor
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MUS 0120

CONDUCTING

Vocal and instrumental conducting, stressing baton techniques and score reading. Preparation of vocal, orchestral, band, and other instrumental ensembles for conducting with the assistance of Tufts performing groups.

Prerequisites: MUS 102 or permission of instructor.

Sections

04160	MUS 012001	E+MW	Staff	1.0	Mus 102 Or Permission Of Instructor
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MUS 0130

JAZZ ARRANGING/COMPOSIT

Techniques of arranging jazz and popular compositions for ensembles of various sizes and types. Intensive work on student compositions.

Prerequisites: MUS 104 or permission of instructor.

Sections

04161	MUS 013001	J+	Smith, Joel L	1.0	Mus 104 Or Permission Of Instructor
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MUS 0143

HST WEST MUS (1770-PRES)

An historical and cultural overview of European art music from Haydn and Mozart through the present, with close readings of representative works.

Prerequisites: MUS 10 or equivalent with permission of instructor.

Sections

02714	MUS 014301	H+	Campana, Alessa	1.0	Mus 10 Or Consent Of Instructor
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MUS 0172

STUDIES-WEST AFRICAN MUS

Selected music cultures of West Africa studied in detail from an interdisciplinary perspective (history, anthropology, and music). Traditional and contemporary genres of music. Musical instruments, musical repertoires, musical systems, lives of musicians, musical meaning in the context of rapid cultural change and globalization. Comparison with other music cultures. Influence of West Africa on music of Europe and the Americas. Intended for advanced music majors and graduate students.

Prerequisites: MUS 101 or permission of instructor.

Sections

04162	MUS 017201	J+	Locke, David	1.0	
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MUS 0183

STUDIES-MUSIC & TRANCE

Cross-cultural approaches to understanding the relationship between music and trance. Topics include music and healing, spirit possession, and the religious experience. Case studies from Africa, Asia, Europe, and the Americas. Intended for advanced music majors and graduate students.

Prerequisites: Prerequisites: MUS 101 or permission of instructor.

Sections

04164	MUS 018301	ARR	Jankowsky, Rich	1.0	Graduate Or Advanced Undergraduate
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MUS 0185

STUDIES-WOMEN & MUSIC

Selected topics concerning women in music. Intended for advanced music majors and graduate students.

Prerequisites: MUS 101 or permission of instructor.

Sections

BLACK DIVAS

02716	MUS 018501	1	Pennington, Ste	1.0	Grad Standing Or Adv. Undergrad
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MUS 0195

SENIOR RECITAL

Recital-level competence; emphasis on solo literature and major repertory; solo recital required. One course credit.

Please see departmental website for specific details.

Prerequisites: Permission of Coordinator of Performance Studies.

Sections

02717	MUS 019501		Auner, Edith Lo	1.0	
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MUS 0197

SPECIAL STUDIES

Study and research in a seminar involving one or more of the following: music history, composition, ethnomusicology, music theory.

Please see departmental website for specific details.

Prerequisites: Prerequisites depend upon topic and level of instruction.

Sections

PIERROT PROJECT

02719	MUS 019701	0	Auner, Joseph	1.0	Preq: Mus 10 Or Equiv W/consent
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COMPOSING FOR FILM

02720	MUS 019702	I+	Roustom, Kareem	1.0	Mus 101 Or Consent Of Instructor
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FILM MUSIC

04168	MUS 019703	3	Campana, Alessa	1.0	Graduate Or Advanced Undergraduate
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MUS 0198

SPECIAL TOPICS-TUTORIALS

Guided independent study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Advanced undergraduate standing & permission of instructor.

Sections

02721	MUS 019801	ARR	Auner, Joseph	1.0	Meets Music Building
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MUS 0199

SENIOR HONORS THESIS

Guided research on a topic that has been approved as a suitable subject. A full-year course; two course credits.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02723	MUS 019901	ARR	Auner, Joseph	1.0	Meets Music Building
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Music

MUS 0200 COMBINED DEGREE-NEC

Combined Degree- NEC.

Please see departmental website for specific details.

Sections

02724 MUS 020001 ARR Dillon, Jeanne 1.0

MUS 0203 STUDIES IN FIELD WORK

Field techniques learned by doing: participant-observation, field notes, interview audio/video documentation, project design and management, fundraising. History of fieldwork, ethics, intercultural communication, self-other relationships and awareness.

Prerequisites: Graduate standing or permission of instructor.

Sections

02725 MUS 020301 4 Staff 1.0 Grad Standing

MUS 0299 MASTER'S THESIS

Guided research on a topic that has been approved as a suitable subject for a master's thesis. Please see departmental website for specific details.

Sections

02726 MUS 029901 ARR Bernstein, Jane 1.0
02727 MUS 029902 ARR Locke, David 1.0
02728 MUS 029903 ARR Mcdonald, John 1.0
02729 MUS 029904 ARR Auner, Joseph 1.0
02730 MUS 029905 Summit, Jeffrey 1.0
02731 MUS 029907 ARR Jankowsky, Rich 1.0
02732 MUS 029908 ARR Campana, Alessa 1.0
02733 MUS 029909 ARR Pennington, Ste 1.0

MUS 0401 MASTERS DEGREE CONT.

Part-time.

Please see departmental website for specific details.

Sections

02738 MUS 0401PT Auner, Joseph 0.0

MUS 0402 MASTERS DEGREE CONT.

Full-time.

Please see departmental website for specific details.

Sections

02739 MUS 0402FT Auner, Joseph 0.0

Nutrition

NUTR0101

HUMAN NUTRITION

To provide an understanding of basic nutrition science to non-science majors and students with a limited scientific background. Students will become familiar with: the principles of diet planning, government standards, and food labeling; the biological functions and food sources of each nutrient; energy balance, weight management, and physical activity; the role of nutrition in chronic disease development; nutrition throughout the life cycle; food safety issues; and current nutrition-related controversies. This course meets the science requirement for undergraduate non-science majors. It is not acceptable for biology credit for biology majors.

Sections

02744 NUTR010101 B+TR Kane, Kelly 1.0 Meets Tue & Thu 8:05-9:20 Medford Campus

NUTR0204

PRINCIPLES EPIDEMIOLOGY

(Cross-listed as CEE 154.) Methods that quantify disease processes in human populations. Topics include study design, sources of inaccuracy in experimental and observational studies, the methodology of data collection, and an introduction to the statistical evaluation of epidemiological data. Fall.

Prerequisites: Consent of instructor. Cannot receive credit for both CEE 154 and CEE 54

Sections

02746 NUTR020401 ARR Zhang, Fang-fan 1.0 F 0900am-1200pm

NUTR0205

COMMUNICAT HLTH INFO I

The objective of this course is to learn to write articles and on the editing process; the other will focus on pragmatic issues such as choosing topics, judging sources, elements of successful writings, and how to "break in" to the popular press. Note: 10-week course. Enrollment limited to 12. This course was formerly listed as NUTR 201A.

Prerequisites: NUTR 220 (formerly NUTR 229), graduate standing or consent. Enrollment priority is given to 1) Nutrition Communication program students, 2) Nutrition Communication minors.

Sections

02747 NUTR020501 ARR Shuman, Jill 0.5 Tue 6-7:30 At Jaharis Boston

NUTR0208

HUMAN PHYSIOLOGY

This course meets the physiology requirement for students in the following programs: Human Nutrition, Nutritional Epidemiology, Cell and Molecular Nutrition. This course will cover the functions of mammalian organisms as we understand them at various levels of organization - organ system, organ, cellular and subcellular levels. Our goal is to provide a working knowledge of the fundamental properties and regulation of these systems so that the student can understand and relate this material to that learned in other basic science courses with particular emphasis on those related to nutrition.

Prerequisites: Undergraduate level introductory biology and chemistry.

Sections

02749 NUTR020801 ARR Leavis, Paul C 1.0 Tues & Thurs 8:00-10:00am Jaharis

NUTR0210

SURVEY RESEARCH NUTR

A methods course focusing on field research in nutrition. How to identify policy-relevant issues, define hypotheses, and select and combine appropriate methods drawn from nutrition, epidemiology, anthropology, economics, psychology, sociology, education, and political science. How to develop research designs and samples, as well as how to analyze plans, and to construct and pretest the types of instruments commonly used in nutrition research and evaluation. Interviewer training, quality control, site operations, and database management.

Prerequisites: One semester of statistics or permission of instructor.

Sections

02750 NUTR021001 ARR Rogers, Beatric 1.0 Fridays 9:00am-12:00pm Jaharis

NUTR0214

STAT METHODS-HLTH CARE

In this course students critically evaluate, compare, interpret, judge, summarize and explain statistical results published in research articles in health and nutrition journals that are influencing nutrition science, research, policy, and clinical practice. Students will also develop an intermediate level ability to analyzing research data with Stata statistical software.

Prerequisites: Undegraduate level statistics and enrollment in Dietetics program.

Sections

02752 NUTR021401 ARR Houser, Robert 1.0 Thur 10:00-11:30 At Frances Stern

NUTR0216

MANAGEMENT PLANNING

Key management concepts and principles for managing nutrition and health programs and organizations will be addressed to equip students to function as program directors and project managers). Case studies and readings will be used to convey a practical understanding of how to manage and coordinate business functions to achieve the goals and objectives of the organization. This course will deal with for-profit and nonprofit organizations. Topics will include business and project planning, management control systems, financial management, budgeting, performance measurement, pricing and marketing of services, operations, management, cost analysis, human resource management, and the development of management information systems. The course is designed to provide practical tools in areas we believe students need to acquire skills. This course was formerly listed as NUTR 225.

Prerequisites: Graduate standing or instructor consent.

Sections

02753 NUTR021601 Hastings, David 1.0 Mon 6-8 Pm Jaharis-boston

NUTR0217

MONITORING & EVALUATION

Introduction to the principles and practice of program monitoring and evaluation with an emphasis on nutrition and nutrition-related programs in developing countries. By reviewing relevant literature and utilizing case studies in the areas of nutrition, primary health, agriculture, and other fields, students will garner basic literacy of the language and tools of evaluation. Focus on theory and practice of conducting program evaluation. Emphasis on participatory nature of the seminar: students will shape the curriculum, design assignments, and be expected to bring forth their personal experiences, opinions, and questions to the subject matter at hand.

Prerequisites: Graduate standing or permission of instructor.

Sections

02755 NUTR021701 ARR Coates, Jennife 1.0 Wed 3:00-6:00 Pm Jaharis Boston

NUTR0218

COMM STRATG HEALTH PROMO

A survey of communications strategies in health promotion. This course will provide students with the ability to decide when a health communication initiative is appropriate; to develop health communications programs based on appropriate theoretical foundations; and to select and plan evaluation strategies appropriate for the particular intervention. Spring.

Prerequisites: Graduate Standing or permission of instructor.

Sections

02757 NUTR021801 ARR Goldberg, Jeann 1.0 Fri 9-12 Noon Jaharis Boston

Nutrition

NUTR0219

FUNDAMENTALS FOOD SCIENC

This course will provide students a broad overview of certain aspects of both the U.S. and worldwide food supply. This course is intended to provide students with an understanding of : 1) the basic groups of foods in the food supply and their nutrient profiles; 2) the effects of harvesting, processing and storage; and 3) the important issues affecting food safety. Requirement for all students in the Food Policy and Applied Nutrition (FPAN), Agriculture, Food, and Environment (AFE), and Nutrition Communication programs who entered before the Fall of 2006. (0.5 credits)

Prerequisites: NUTR 202 (formerly NUTR 291SP) or NUTR 210 (formerly NUTR 291FN).

Sections

02759 NUTR021901 ARR Ausman, Lynne 0,5 Mondays 6-7:30
Jaharis 254

NUTR0221

GLOBAL FOOD BUSINESS

(Cross-listed as EIB N280 (Fletcher School). The purpose of this course is to introduce the student to the field of international food and agribusiness. Today, international trade in agricultural commodities and foods is a major segment of the world's business. This business continues to grow yearly, motivated by new and potential international trade agreements (GATT, NAFTA), expansion by both established and new multinational companies, and export policies by countries seeking new markets for their growing food and agricultural production. The focus of this course will be to develop in each student a conceptual knowledge of the analytical skills in administration, marketing, business strategy, research, governmental policies and technology that international food business requires today. The course also attempts to analyze the global food business from a transnational perspective, rather than any single nationalistic viewpoint of food and agribusiness. It is designed to meet the requirements of students aiming to enter the international food business world, as well as for students who in their professional careers (e.g., government, legal) will deal with this important sector of international business. This course was formerly listed as NUTR 245.

Prerequisites: Graduate standing or instructor consent.

Sections

02761 NUTR022101 ARR Tillotson, Jame 1.0 Tue & Thu
8:15-9:30 A.m.
Medford
Campus

NUTR0222

GEND,CULT&CONF HU EMER

(Cross-listed as DHP D232 -Fletcher). This course will examine humanitarian aid in conflict situations from a gender perspective and highlight the policy and program implications that this dimension presents. Topics covered will include the ways in which gender relations are affected by conflict; the relationship between gender and the militarization of societies and communities; violations of human rights and women's rights; women in peace building and conflict resolution; the gender dynamics of aid and post-conflict reconstruction. This course was formerly listed as NUTR 261.

Prerequisites: Graduate standing or instructor consent.

Sections

02763 NUTR022201 ARR Mazurana, Dyan 1.0 Mon 3:20-5:20;
C-1st Nutr
222-02

NUTR0223

SEM:HUMANITARIAN ASSIST

Open for credit only to Master of Arts in Humanitarian Assistance (MAHA) students. This seminar will explore in depth key issues in humanitarian assistance, for example, humanitarian law, ethics, psycho-social interventions, the role of the military, program and agency management, and fund-raising. A hands-on course with an opportunity to discuss in depth much of the theory and academic literature of prerequisite courses. This course was formerly listed as NUTR 273.

Prerequisites: NUTR 229 (formerly NUTR 221).

Sections

02765 NUTR022301 ARR Jacobsen, Karen 1.0 Fri 2-4 200
Boston
Ave,suite 480
Medford

NUTR0224

COMMUNITY FOOD PLANNING

This course will cover (domestic) community food programs that focus on or operate at the community or regional level. Such initiatives promote local/regional agriculture and food chain businesses that process, market, and use local or regional food products. In tandem, public sector and NGO initiatives now involve programs and policies with a 'community food' agenda. The content and focus will be on more complex initiatives such as farm-to-institution programs, regional wholesaling initiatives, and food policy councils. A major course objective is to provide practical skills and tools for design, strategic planning, and implementation of these programs, including assessments, research, policy components, and funding. We will also provide contextual analyses and critical perspectives of community-based strategies as alternative food systems models. To strengthen the course, there will be several visiting lecturers with significant expertise on a specific skills topic or community food program.

Sections

02766 NUTR022401 ARR Joseph, Hugh 1.0 Wed 9-12 Pm
Jaharis Boston

NUTR0226

PUBLIC POL HLTH CLMS FOOD

This course examines the U.S. food policies governing the use of diet and health information in commercial communications. In the mid-1980s, for the first time in history, the food industry began to use health claims in food advertising and labeling. This proved to be a highly effective marketing method for the food industry. However, industry use of health claims product promotion created public controversy and policies--a comprehensive new labeling law as well as many new FDA, USDA, and FTC regulations--governing food advertising and labeling that use nutritional and medical information. The object of this course is to review current food policies governing health claims and the regulatory regime controlling their use in commercial communications. Spring.

Prerequisites: Graduate standing or permission of instructor.

Sections

02768 NUTR022601 ARR Tillotson, Jame 1.0 Fridays
1:00-4:00pm
Jaharis Boston
Campus

NUTR0227

INTERNATIONAL NUTRITION

This intensive course provides presentations, readings, and exercises relating to the broad range of nutrition interventions utilized in international programs: growth monitoring and promotion, nutrition counseling and IEC, supplementary feedings and food-based income transfers, household food security and agricultural-based interventions, micronutrient activities, and breast-feeding. The course also covers malnutrition causality, nutrition and structural adjustment, social funds, economic and food aid, active learning capacity and the nutrition transition. Finally students become well versed in program design and appraisal techniques including dynamic models and program constraint assessments, and are responsible for major exercises relating to existing programs in Asia, Africa and Latin America. This course was formerly listed as NUTR 204.

Prerequisites: Graduate standing or instructor consent.

Sections

02770 NUTR022701 ARR Hendricks, Kris 1.0 Mon 9-12 Noon
Jaharis Boston

Nutrition

NUTR0230

INTERNATIONAL NGO MANAGE

(Cross-listed as DHP-P209 at the Fletcher School). Fundamental economic, political, cultural and social transitions are reshaping the world. The pace of change is dramatic. Traditional relief and development concepts are being challenged. In the face of this global change, individuals need the academic frameworks and constructs to allow for analysis, flexible understanding and mature reflection of world trends and events. Individuals must also, however, wrestle with their own personal values in this new world.

This course combines theory and practice. This course will look at some key ethical frameworks for individual action. This course will challenge students to reflect on the moral and ethical ideas underpinning today's changing world. As we witness humanitarian crises and failed development efforts, we will consider ethical and moral values that support the humanitarian and developmental interventions of international NGOs. The course will focus on international nongovernmental organizations (NGOs). The course concentrates on providing an overview of key NGO management concepts and discusses practical tools for effective action. It will introduce students to such essential skills such as strategic planning, advocacy, the use of the press, human resource management, fundraising, budgets, evaluation and reading financial statements.

Prerequisites: Graduate standing or instructor consent.

Sections

02772 NUTR023001 ARR Hammock, John C 1.0 Mon 5:30-9:00 Pm

NUTR0231

FUNDAMENTALS OF GIS

Most issues in the food system, from agricultural productivity to urban food security, cannot be completely understood without integrating many layers of information. Geographic information systems (GIS) provide a powerful tool for synthesizing data for which the only shared trait is a common geographic position. Consequently, geospatial analysis is critical for understanding such complex phenomena. This course will provide students with the fundamental knowledge and skills to begin using GIS in research and applied projects. It will cover the structure of spatial data, key concepts in geography, common vector-based and raster-based analyses, basic spatial modeling, and project management. Principles of GIS science will be introduced through lectures then reinforced through intensive laboratory exercises using the ArcGIS software package. The primary goal of this course is to cultivate a level of competence sufficient to enable the student to conduct a simple project independently.
Credit: 0.5

Prerequisites: Graduate standing or instructor consent.

Sections

02773 NUTR023101 ARR Peters, Christi 0.5 F 0100pm-0400pm

NUTR0233

AGRICULTURAL SCI&POL I

First part of a two-semester sequence required of AFE students. This course covers the major biological, chemical and physical components of agricultural systems. Each is discussed from the viewpoints of both the underlying natural processes and principles, and their significance for major agricultural, food safety, and environmental policy issues in the US today. In the first semester, the topics covered are soils, water, nutrients, and genetic resources.

Prerequisites: NUTR 215

Sections

02775 NUTR023301 ARR Griffin, Timoth 1.0 Tues & Thur 9:30-11:00 Jaharis Boston

NUTR0235

JUNIOR CLINICAL ROTATION

Required of junior standing students enrolled in the Combined Dietetic Internship/Masters Degree program. Grading is Satisfactory/Unsatisfactory. Formerly NUTR 880.

Sections

02777 NUTR023501 Kane, Kelly 0.0 Zero Credit Full Time

NUTR0236

PRACT BIORESEARCH TECHN

Biochemical and Molecular Nutrition students must enroll in one practicum in bioresearch techniques. Students who anticipate a career in basic nutritional sciences require extensive laboratory training. Practicums in bioresearch techniques, established as a single, 1.0 credit course, will provide students with an understanding of critical experimental evaluation as well as hands-on experience in essential techniques of modern biology. In the practicum, students will answer a specific biologic question through experimentation. Faculty in participating laboratories will be responsible for providing an overview of the biologic interest of the laboratory, overseeing the development of a specific, defined project, teaching the theory of specific techniques to be employed, and training the students in the application of these techniques. Students will be evaluated through a written report and oral presentation in a laboratory meeting-type setting. Formerly listed as NUTR 260A-D.

Sections

02778 NUTR023601 Obin, Martin 1.0

NUTR0238

EC FOOD POLICY ANALYSIS

NUTR 238 is a requirement for students in the FPAN program. This class is intended to provide students with an introduction to the basic micro and macroeconomic concepts essential to understanding food and nutrition policy. Students who take this course will have the equivalent of an introductory micro/macro course, with an emphasis on food policy applications and examples.

Sections

02779 NUTR023801 ARR Masters, Willia 1.0 Tues & Thur 3:30-5:00 Jaharis Boston

NUTR0239

EMERG TECH NCOMM

The course begins with an overview of the role of technology in nutrition communication through a grounding in core concepts and a survey of technology in the field of health and nutrition communication. It then provides an orientation to three specific uses of Internet-based communication technology (dissemination, collaboration, and knowledge) through hands-on opportunities that encourage students to use and evaluate specific tools and their appropriateness to various nutrition communication contexts. Throughout the course, students work on a group that utilizes one or more technologies covered.

Sections

02781 NUTR023901 ARR Giguere, Paul 1.0 Tue 2-5 Pm Jaharis Boston

NUTR0240

BMN JOURNAL CLUB

The principal goals of this student-run BMN Journal Club are to: (a) enhance graduate students' understanding of the current state of biochemical and molecular nutrition and (b) provide experience in reviewing and critiquing research articles. In alternate week sessions, students will critically evaluate peer-reviewed articles for class discussion that reinforce the principles of various research approaches (including in vitro experiments, animal models, observational studies, clinical trials) and analytical methods. This course will also help students to develop their evaluative skills and presentation performance.

All BMN MS and PhD students are encouraged to take this course within the first two years of matriculation to the Friedman School. This will be an intellectually stimulating course that will focus on recent findings in the field. In addition to the faculty advisor for this course, other faculty will be encouraged to attend to help facilitate discussions; for each session, faculty with expertise in a topic to be discussed during

Nutrition

that class will be invited to participate. This approach also has the benefit of allowing students in their first and second year of the BMN program to meet and interact with a variety of Friedman faculty.

The primary format of this course will be student-selected and -led presentations of recent publications in the biochemical and molecular nutrition literature. The course covers two semesters, meeting every two weeks. During the year, all participating students will be required to give at least one PowerPoint presentation, and submit to the class a one-page summary that addresses the study aims, methods and results, and provides a critical assessment of the article. Presentation dates will be selected at the beginning of the semester. This course will also include two introductory faculty-led lectures on: (a) developing the skills and knowledge essential to understanding and critiquing research reports and (b) effectively communicating the relevant supporting material, results, and conclusions of primary research reports.

Sections

04596 NUTR024001 0.0

NUTR0272

PHYS ACTIVITY NUTR HLTH

Inadequate physical activity and a sedentary lifestyle are thought to be important causes of many of the major diseases of developed societies, including coronary artery disease, stroke, hypertension, diabetes, obesity, osteoporosis, and arthritis. There has been an explosion of information over the past two decades on the health benefits of exercise. In addition, exercise and nutrition are closely linked, with each modifying the effects of the other. Athletes, for example, may have markedly increased needs for some nutrients, but not others. Exercise has potent effects on the metabolism of protein, energy, fat, and some micronutrients. In addition, exercise is an important form of oxidative stress, and the ability of nutrients to alter the effect of exercise is not well understood. Exercise and nutrition together offer an extremely powerful intervention for a variety of problems, including the frailty of aging, the wasting of AIDS, and the obesity that underlies most cases of diabetes and atherosclerosis. This course is designed to give students an understanding of the fundamental interactions between exercise and nutrition, and to offer students an opportunity to examine the application of nutrition to exercise and vice versa. Each lecture will also discuss how these factors are important in disease prevention, and where applicable, treatment.

Sections

02782 NUTR027201 ARR Nelson, Miriam 1.0 Tue 8-10:50am Jaharis Boston

NUTR0297

DIRECTED STUDY:NUTRITION

Guided individual study and/or tutorial on an approved topic. Extensive opportunities exist for students to study issues not covered in regular course offerings and/or to expand on material offered in class. Students are encouraged to discuss possible study areas with appropriate members of the faculty, and are requested to submit a completed directed study proposal form to register for credit. Grading is normally satisfactory/unsatisfactory.

Please see departmental website for specific details.

Sections

02796 NUTR029712 Folta, Sara C. 1.0
02797 NUTR029713 Peters, Christi 1.0
02798 NUTR029714 Jacobsen, Karen 1.0
02799 NUTR029715 Ordoas, Jose 1.0
02800 NUTR029716 Wu, Dayong 1.0
02801 NUTR029717 Booth, Sarah L. 1.0
02802 NUTR029718 Wang, Xiang-don 1.0

NUTR0301

NUTRITION IN LIFE CYCLE

This course covers nutrition issues from preconception throughout life. It considers factors that affect growth and development, and the aging process. Among these are food insecurity, environmental factors, nutrition and disease interactions, congenital abnormalities, and inborn errors of metabolism. This course was formerly listed as NUTR 251.

Prerequisites: NUTR 201 (formerly NUTR291FN).

Sections

02803 NUTR030101 ARR Truong, Jennife 1.0 Tue 2-5 Pm Thu 9-noon;jaharis Boston,meets First 7 Wks

NUTR0307

REGRESSION ANALYSIS NPOL

Part two of a one-year, two-semester course sequence in statistics. This course is intended for students whose main focus is non-experimental or survey-based research. The course covers non-experimental research design, simple linear regression, multiple regression, analysis of variance, non-linear functional forms, heteroskedasticity, complex survey designs, and real-world statistical applications in nutrition science and policy. Students will make extensive use of Stata for Windows. NOTE: Students cannot receive credit for both NUTR 249 Regression Analysis for Nutrition Policy and its second semester counterpart NUTR 209B Statistical Methods in Nutrition Research II. This course was formerly listed as NUTR 249.

Prerequisites: NUTR 207 or 209 (formerly NUTR 209A).

Sections

02807 NUTR030701 ARR Geyer, Judy 1.0 Mon 12:30-2:00& Wed 1:30-3:00 Pm Jaharis Boston

NUTR0308

NUTR-COMPLEX EMERGENCIES

(Cross-listed as DHP D237 (Fletcher School). Required for students enrolled in the Master of Arts in Humanitarian Assistance Program. This course will examine the central role and importance of food and nutrition in complex emergencies. The implications of this for nutrition assessment, policy development, program design and implementation will be examined. This will provide an understanding of; the nutritional outcomes of emergencies (malnutrition, morbidity and mortality); and also the causes of malnutrition and mortality in emergencies (the process and dynamics of an emergency). The course will also develop a broader range of management skills needed in relation to humanitarian response initiatives. This course was formerly listed as NUTR 264.

Prerequisites: Graduate standing or instructor consent.

Sections

02809 NUTR030801 ARR Sadler, Kate 1.0 Wed 9am-noon Jaharis Boston

NUTR0309

STAT MTDS NUTR RES II

The second of a two course sequence covering study design, descriptive statistics, graphical displays, confidence intervals, hypothesis testing, Student's t test, chi-square test, nonparametric tests, sample size calculations, multiple linear regression, multiple logistic regression, multi-factor experimental design, repeated measures, and multiple comparisons procedures. NUTR 309 starts up where NUTR 209 leaves off, usually beginning with multiple linear regression. Students will make extensive use of SAS for Windows.

NOTE: Students cannot receive credit for both NUTR 309 Statistical Methods in Nutrition Research II (Science)and its second semester counterpart NUTR 307 Regression Analysis for Nutrition Research II (Policy). This course was formerly listed as NUTR 209B.

Prerequisites: NUTR 209 (formerly NUTR 209A).

Sections

02811 NUTR030901 Dallal, Gerard 1.0 Mon 2:00-3:30 & Wed 1:15-2:45 Jaharis Boston J118

Nutrition

NUTR0310

QUAL RESEARCH MTHDS NUTR

Qualitative research allows researchers to address "how" and "why" questions and to document changes in complex processes and relationships over time. This year's course focuses on how the current financial crisis is affecting the every day lives of Bostonians and their communities. The students, teachers, and lecturer will collaborate to develop an interdisciplinary team approach to this inquiry. Given the diversity of backgrounds and professional interests, students are encouraged to contribute their respective experience and expertise in formulating the research exercises and to the overall project. The course is taught primarily from an anthropological perspective and specifically focuses on the practice of ethnography and developing critical theories based on grounded evidence and interpretation. From that perspective, students also learn specific qualitative techniques such as documentation, participant observation, interviewing, life history, and focus group interviews.

Prerequisites: One semester of statistics and either NUTR 204 (formerly NUTR 154) Introduction to Epidemiology or NUTR 210 Survey Research in Nutrition, or instructor consent.

Sections

02812 NUTR031001 ARR Sharma, Jeevan 0.5-2.0 Thu 2:00-5:00
Jaharis-boston

NUTR0312

NUTR & CHRONIC DISEASE S

This course covers issues in modern nutrition, public health and chronic disease. We will focus on the major non-infectious diseases present in Western countries that are caused by modifiable lifestyle choices and the role that diet plays in maintenance of health and the risk of chronic diseases.

Credit: 0.5

Prerequisites: NUTR 201.

Sections

02814 NUTR031201 ARR Truong, Jennife 1.0 Tue 2-5 & Fri
1-4pm;jaharis
Boston,meets
Last 7 Wks

NUTR0313

NUTRITIONAL ASSESSMENT

This course will provide an overview of the common nutritional and food security assessment tools. Laboratory and field methods for population wide nutritional deficiency assessment, nutritional screening and surveillance, dietary assessment, hunger and food security as well as diet diversity and food group indices will be examined. Clinical methods including body composition, biochemical and clinical factors related to macro and micronutrient deficiency will be discussed. Using practical training and demonstrations students will learn how to select and apply these methods in program-based or research-based settings. Issues of validity and reliability of these methods will be addressed mainly in the context of strengths and limitations of each method. At the end of the course, students should have some familiarity with the common nutritional assessment techniques as well as their practical applications at the individual and population wide levels. Credit: 0.5

Prerequisites: NUTR 202.

Sections

02816 NUTR031301 ARR Das, Sai Krupa 0.5 Thu 9-12 Pm
Jaharis Boston,
Meets Last 7
Wks

NUTR0314

DSGN EPI STUDS NUTR RSCH

This course examines epidemiological principles of study design for nutrition research. Focuses primarily on valid, efficient, and ethical methods for studying relationships between nutritional exposures and chronic disease. Includes written assignments and oral presentations requiring the application of design principles to specific research questions. This course was formerly listed as NUTR 262.

Prerequisites: NUTR 207 or 209 (formerly NUTR 209A) or equivalent, NUTR 204 (formerly NUTR 154) or equivalent, and familiarity with basic methods of dietary assessment.

Sections

02818 NUTR031401 ARR Dunn, Julie 1.0 Mon 8:30-11:30
Am Jaharis
Boston J156

NUTR0316

ADV MED NUTR THERAPY

Nutritional biochemistry and physiology as related to selected pathophysiological conditions, with attention paid specifically to dietary assessment and various indices of nutritional status. Conditions with particular relevance to clinical nutrition are emphasized. This course was formerly listed as NUTR 250B.

Prerequisites: Graduate standing or instructor consent.

Sections

02820 NUTR031601 ARR Kane, Kelly 1.0 Thur 1:30-4:30
Pm Jaharis
Boston

NUTR0324

HUMANITARIAN STU FIELD

This course will offer a practical and in-depth analysis of the complex issues and skills needed to engage in humanitarian work in field settings. Through presentations offered by the faculty of the Humanitarian Studies Initiative and guest speakers who are experts in their topic areas, students will gain familiarity with the primary frameworks in the humanitarian field (human rights, livelihoods, Sphere standards, international humanitarian law) and will focus on practical issues that arise in the field, such as rapid public health assessments, field cluster sampling techniques, application of minimum standards for food security, and operational approaches to relations with the military in humanitarian settings.

Credit:

Sections

02822 NUTR032401 ARR Walker, Peter 1.0

NUTR0325

MICRONUTRIENTS

This course will build on practical, up-to-date information on the functional role of several micronutrients across the lifecycle and emphasize the complex and challenging relationship of micronutrient nutrition to social development. Students will learn about, discuss and analyze several challenges of translating scientific knowledge about micronutrient nutrition into population level policies and interventions in the USA, but with added emphasis on developing countries. Iron, Iodine, Zinc, Vitamin A, Folic Acid are the primary focus but several other vitamins and minerals are covered as well. This one credit course requires NUTR 202 or permission of instructor as a prerequisite, and is being planned as an annual offering in the spring semester.

Sections

02824 NUTR032501 ARR Rosenberg, Irwi 1.0 Mon 2:00-5:00
Pm Jaharis
Boston

NUTR0335

SR CLINICAL ROTATIONS

Required of senior standing students enrolled in the Combined Dietetic Internship/Masters Degree program. Grading is Satisfactory/Unsatisfactory. Formerly NUTR 880.

Sections

02826 NUTR033501 ARR Kane, Kelly 0.0 Zero Credit Full
Time

NUTR0371

NUTR BIOCHEM&PHYSIOLOGY:

Required of all students in the Human Nutrition, Nutritional Epidemiology, and Cell and Molecular Nutrition programs; NUTR 271A&B are generally taken in the second year of graduate study or after the student has completed the prerequisites. Second part of a two-semester course. Students will explore the fundamental roles of nutrients in biological systems. Particular emphasis will be placed on the function of nutrients as defined by their chemistry, interrelationships between nutrient function, mechanistic approaches in the analysis of nutrient-disease relationships, and recent advances in the basic sciences related to nutrition and nutrient function. Students in an accompanying discussion section will review recent journal articles related to the major nutrient classes. This course was formerly listed as

Nutrition

NUTR 271B.

Prerequisites: BCHM 223 or equivalent, NUTR 208 Human Physiology or equivalent, NUTR 201 or 202 (formerly NUTR 202, NUTR 291 FN, NUTR 291SP), or equivalent.

Sections

MICRONUTRIENTS

02827	NUTR037101	ARR	Yeum, Kyung Jin	1.5	Tue & Thu 11-1 Jaharis Boston;on Line Fri 9-11am
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NUTR0397

DIRECTED STUDY

Guided individual study and/or tutorial in an approved topic. Extensive opportunities exist for students to study issues not covered in regular course offerings and/or to expand on material offered in class. Students are encouraged to discuss possible study areas with appropriate members of the faculty, and are required to submit a completed "Directed Study Proposal Form" to register for special topic credit. Grading is normally Satisfactory/Unsatisfactory. Directed Study courses are not in the call number system and are not included on pre registration paperwork.

Sections

02845	NUTR039711		Rogers, Beatric	1.0	
02846	NUTR039712		Rogers, Beatric	1.0	
02848	NUTR039714		Dwyer, Johanna	1.0	
02852	NUTR039718		Peters, Christi	1.0	
02853	NUTR039719		Goldin, Barry R	1.0	
02854	NUTR039720		Griffin, Timoth	1.0	
02855	NUTR039721		Joseph, Hugh	1.0	
02857	NUTR039723		Walker, Peter	1.0	
02859	NUTR039725		Griffin, Timoth	1.0	
02860	NUTR039726		Peters, Christi	1.0	
02861	NUTR039727		Griffin, Timoth	1.0	
02862	NUTR039728		Griffin, Timoth	1.0	
02863	NUTR039729		Peters, Christi	1.0	
02865	NUTR039731		Rogers, Beatric	1.0	
02834	NUTR0397MP1	ARR	Griffin, Timoth	1.0	
02833	NUTR0397MP	ARR	Zhang, Fang-fan	1.0	

NUTR0399

DOCTORAL CANDIDACY PREP

Students should register for this course while preparing for the Ph.D. Qualifying Examination in order to remain in active status. Full time equivalent – grading is Satisfactory/Unsatisfactory. This course was formerly listed as NUTR 397.

Sections

02867	NUTR039901H			0.0	
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NUTR0403

PHD THESIS ONLY

All doctoral students must register for NUTR403 every semester to remain in active and full time status (full time equivalent.) Grading is Satisfactory/Unsatisfactory.

Sections

02869	NUTR040301	ARR		0.0	
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NUTR0501

RESEARCH PRACTICUM

Required of Post-Doctoral and Training Grant Fellows. Grading is Satisfactory/Unsatisfactory.

Sections

02873	NUTR050101			0.0	
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Occupational Therapy

OTS 0103

NEUROANATOMY

(Cross-listed as BIO 5.) The structure and basic function of the nervous system: both central and peripheral nerves analyzed as to functional components, course, and action. Basic tracts of the central nervous system outlined and traced. Laboratory sessions weekly.

Prerequisites: OTS 102.

Sections

02876	OTS 010301	ARR	Pessina, Monica	1.0	Preq: Ots 102 & Bio 4, C-1st Bio 5-01
02874	OTS 0103LA	ARR	Whitney, Elizab	0.0	See Department Schedule
02875	OTS 0103LB	ARR	Pessina, Monica	0.0	See Department Schedule

OTS 0107

OCCUPTN/ADAPTN:ADULT

Developmental themes and theoretical models of the adult life cycle, from early to late adulthood including examination of physical, psychological, cognitive, and social changes and the influence of culture, race, and gender on occupations and adaptation. Emphasis on individual differences and the impact of sociocultural context or areas of occupation such as work, activities of daily living, play, education, social participation, and spiritual practices. Community field experience.

Prerequisites: PSY 1, junior or senior standing.

Sections

02878	OTS 010701	2+	Chippendale, Tr	1.0	See Dept Sched
02877	OTS 0107LA	TBA	Chippendale, Tr	0.0	Per Dates Scheduled Or Assigned

OTS 0138

MANDATORY FIELDWORK SEM

Seminar. No course credit.

Please see departmental website for specific details.

Sections

02879	OTS 013801	ARR	Roberts, Michae	0.0	Per Dates Scheduled/no Grade
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OTS 0207

CLIN REAS SEM III

Exploration of the procedural components of the clinical reasoning process with reference to the profession's practice framework, evidence-based practice, selected theoretical models and practice areas. Topics include principles of evaluation, outcome measures, evidence-based practice, client-centered practice, and clinical documentation.

Sections

02882	OTS 020701	ARR	Brooks, Janet C	0.5	Mon 9:30-11:30 Am
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OTS 0209

CLINICAL RESEARCH

Exploration of the components of the research process in the context of occupational therapy. Includes developing research questions, conducting a literature search and review, data collection and data analysis, drawing conclusions from data, ethics in research, and sharing research findings.

Prerequisites: Introductory statistics; open to undergraduates.

Sections

02883	OTS 020901	ARR	Staff	1.0	Wed 4:30-7:30pm
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OTS 0210

THESIS RESEARCH

(May be substituted for OTS 209.) An examination of methods of scientific inquiry and research applicable to human-service professions. Emphasis on formulating questions; methodology for their resolution, including sampling, measurement of variables, reliability and validity; selection of instruments; data collection and analysis; proposal writing for thesis.

Prerequisites: Permission of instructor.

Sections

02884	OTS 021001	ARR	Staff	1.0	Meets Arr Time In Bso1, check Dept Sched
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OTS 0219

GRP THEORY&COMM PRACTICE

Exploration of the dynamics of small and large group systems. Classes and readings focus on theories of group process that lead to effective group functioning. Group experiences in class to integrate theoretical learning about group observation, leadership, and individual membership skills. Understanding culture in relation to group development in small and large group systems and application of group theory to practice in occupational therapy. Lectures, mentoring groups, and assignments are integrated with weekly community-based service learning where the students facilitate small task-oriented groups. Level I fieldwork experience.

Prerequisites: Prior or concurrent OTS 106 or 107.

Sections

02887	OTS 021901	ARR	Schwartzberg, S	1.0	Meets Mondays 1:30 To 3:20
02885	OTS 0219LA	TBA	Barnes, Mary Al	0.0	Meets Mondays 3:30 To 4:20

OTS 0224

OT PRACTICE-PHYSICAL DYS

Basic intervention principles for neurologic, orthopedic, degenerative, and traumatic conditions, including CVA, arthritis, burns, fractures, and spinal cord injuries, as well as theory and research in relation to treatment, will be presented in lecture. Laboratory stresses conducting motor, sensory, and perceptual evaluations; comprehensive intervention planning; splint fabrication; transfers; and psychodynamics of physical rehabilitation. Level I fieldwork.

Prerequisites: OTS 102, 103, and 243 (taken concurrently or prior to OTS 101, 104, and 242).

Sections

02889	OTS 022401	5+	Brooks, Janet C	1.0	See Dept Schedule
02888	OTS 0224LA	ARR	Brooks, Janet C	0.0	Wed 1:30-3:30 Pm

OTS 0226

OT PRACTICE IN PEDIATRIC

This course prepares students to use clinical reasoning to apply knowledge of pediatric occupational therapy, principles to working with children and their families. Course content will focus on supporting the occupations of the child within an environmental context with an emphasis on family and sociocultural factors. Students will examine major theoretical frames of reference based upon current research and will learn to apply this to planning occupational therapy evaluations and interventions. As part of this course, students are required to participate in a Level I pediatric occupational therapy fieldwork experience.

Prerequisites: OTS 104, 106, 206, and either 224 and 227.

Sections

02890	OTS 022601	ARR	Staff	1.0	Mon 8:30 To 11:30 And Tues 8:30 To 11:30
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Occupational Therapy

OTS 0227

OT PRAC-PSYCHOSOCIAL DYS

Review of the theoretical backgrounds that have either historical or current significance in the practice of occupational therapy with individuals who are mentally ill. Students use a variety of learning activities to fully explore this area of practice, including lecture and lab. Practical application of theoretical concepts and clinical reasoning applied to a variety of treatment situations to guide clinical decisions from evaluation through discharge. Level I fieldwork.

Prerequisites: OTS 107 and 243 (taken concurrently or prior to OTS 106, 219, and 242).

Sections

02892	OTS 022701	9+	Trudeau, Scott	1.0	
02891	OTS 0227LA	ARR	Trudeau, Scott	0.0	Thurs 2:30-4:30pm

OTS 0229

OT PRACTICE OLDER ADULT

Study of contemporary issues of aging and social implications of worldwide longer lifespan. Examination of theories of aging, including physiological, psychological, and functional changes and the influence of culture, race, and gender in the experience of aging. Through clinical reasoning, students learn to evaluate and facilitate functional performance in older adults in a variety of environments, ranging from community to institutional settings. Professional roles, intervention strategies, and modes of service delivery, including interdisciplinary approaches to gerontic occupational therapy. Community field experience.

Prerequisites: Permission of instructor.

Sections

02893	OTS 022901	4+	Trudeau, Scott	1.0	
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OTS 0230

RUN EFFECT GRPS:INTERDIS

This interdisciplinary course explores the structure, dynamics, communication, and action patterns of small groups. Classes and readings will focus on theories of small group functioning and elements of group process that lead to effective group formation, development, and closure. Group experiences in class will assist in integrating theoretical learning, building upon skills in group observation, leadership, and individual membership. Understanding personal dynamics with organizational culture in relation to group development in small and large group systems will also be addressed. The class will be part of its own laboratory in small group dynamics. One course credit.

Prerequisites: Graduate student and consent.

Sections

02894	OTS 023001	ARR	Schwartzberg, S	1.0	C-list Ed 252, Uep 294-13
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OTS 0233

POLICY&MANG OCC THERAPY

Principles of management within the institutional and community health care system, including moving from clinician to manager, managerial roles, marketing, financial management of an occupational therapy department, staff development, recruitment and retention, ethics in the workplace, and professional issues.

Sections

02895	OTS 023301	ARR	Roberts, Michae	0.5	T 0130pm-0330p m
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OTS 0235

PRACTICUM

Supervised experience in occupational-therapy-related settings, e.g., clinics, community programs, and educational institutions. Experience may focus on specific areas of teaching, consultation, program development, or direct service.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02896	OTS 023501	9+	Roberts, Michae	0.5-1.0	Per Dates Scheduled, Assigned, S/u Only
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OTS 0237

LEVEL II FIELDWORK

No course credit.

Please see departmental website for specific details.

Sections

02897	OTS 023701	ARR	Roberts, Michae	0.0	
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OTS 0238

LEVEL II FIELDWORK

No course credit.

Please see departmental website for specific details.

Sections

02898	OTS 023801	ARR	Roberts, Michae	0.0	
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OTS 0243

HEALTH COND:PATH/PREV II

Incidence, prevalence, and etiology of health conditions that contribute to disruption in occupational performance focusing on conditions common in adults and older adults. The health practitioner's role in the treatment and management of these conditions and the role of risk-factor identification and prevention. The person-environment-occupation model and statistical significance of these conditions in relation to selected populations and the occupational impact. Discussion of conditions such as affective disorders, schizophrenia, anxiety disorders, substance abuse, traumatic brain injury, burns, personality disorders, dementia and delirium, neuromuscular disorders, orthopedic conditions, and selected central nervous system disorders.

Prerequisites: PSY 1, Gross Anatomy (OTS 102 prior or concurrent), Abnormal Psychology (PSY 12 for non-BSOT students), Neuroanatomy preferred (OTS 103).

Sections

02899	OTS 024301	ARR	Staff	0.5	See Dept Sched
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OTS 0244

HEALTH CON:PATH/PREV III

Incidence, prevalence, and etiology of health conditions that contribute to disruption in occupational performance. The health practitioner's role in the treatment and management of these conditions and the role of risk-factor identification and prevention. The person-environment-occupation model and discussion of statistical significance of these conditions in relation to selected populations and the occupational impact. Discussion of psychological, musculoskeletal, neurological, and general medical conditions with attention to public health model of prevention through intervention methods.

Prerequisites: BSOT students only; Gross Anatomy (OTS 102), Neuroanatomy (OTS 103), Human Physiology (OTS 101).

Sections

02900	OTS 024401	ARR	Everhart-skeels	0.5	Please See Dept Schedule
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OTS 0275

HAND&UPPER EXTR REHAB II

This graduate level course, geared toward occupational therapy practitioners and students, will be team taught by Dept of OT faculty and specialists in hand and upper extremity rehabilitation from the Massachusetts General Hospital. This course may serve as the second in a series designed to introduce the class participant to the specialization of hand therapy within the field of occupational therapy. Participants may also begin with this class. Participants may elect to continue their study of the upper extremity with courses offered in the summer and fall semester. Clinicians who participate in all three would be eligible to apply for a hand therapy fellowship at the Massachusetts General Hospital.

Sections

Occupational Therapy

02901 OTS 027501 ARR Brooks, Janet C 0.5-1.0 Mon 5:30-8:30 Pm

**OTS 0286
LEADERSHIP PLANNING**

Students under advisement of faculty sponsors plan and develop, in an area of specialty in occupational therapy practice, a comprehensive leadership project that can be either community or clinically based. The project involves a need assessment and feasibility study, interfacing with potential agencies, and the development of appropriate methodology for evaluation and successful implementation. The project proposal must be approved by a committee of the doctoral faculty.

Prerequisites: OTD students only. Co-requisites: OTS 208 and 288.

Sections

02903 OTS 028602 ARR Schwartzberg, S 0.5 Permission Of Inst,s/u Only,yearlong Course

**OTS 0287
LEADERSHIP PROJECT IMPLE**

Students implement in the setting they have chosen the project approved in OTS 286. They carry out an outcome monitoring system involving data collection, management, and data analysis. Successful completion reflects interpretation and discussion of findings, project evaluation, a publishable article, and an oral defense by a committee of the doctoral faculty.

Prerequisites: PERMISSION OF INSTRUCTOR OTS 286; OTD students only.

Sections

02904 OTS 028701 ARR Bedell, Gary 1.5 Permission Of Inst,s/u Only, Yearlong Course

02905 OTS 028704 ARR Schwartzberg, S 1.5 Permission Of Inst,s/u Only,yearlong Course

**OTS 0289
INTEGRATIVE PAPER**

This paper is designed to be a culmination of the OTD program. The student will integrate information from coursework, proseminars, and a critical examination of the literature, and use this body of knowledge to explain how the Leadership Project experience demonstrated leadership and expertise in an area of specialty. The final paper must be approved by a committee of the doctoral faculty.

Prerequisites: OTD students only and permission of instructor.

Sections

02907 OTS 028902 ARR Bedell, Gary 1.0
02908 OTS 028904 ARR Schwartzberg, S 1.0 Permission Of Inst,s/u Only,yearlong Course

**OTS 0294
SPECIAL TOPICS**

Guided individual study of an approved topic.

Please see departmental website for specific details.

Sections

INTERDISC SEM IN AGING

02915 OTS 029406 ARR Staff 0.5-1.0 Th5:30-8:30pm At Harvard,perm Of Inst,letter Grade

**OTS 0298
PRO SEMINAR**

A forum for review, critique, evaluation, and discussion of the research and practice of occupational therapy. Features student integration of coursework and common themes across specialties. Required each semester in the OTD program.

Please see departmental website for specific details.

Prerequisites: OTD students only.

Sections

02920 OTS 029801 ARR Bedell, Gary 0.0 Tues 4:30-6:30 Pm,perm On Inst

**OTS 0401
MASTERS DEGREE CONT P/T**

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02921 OTS 0401PT ARR Staff 0.0 Permission Of Instructor

**OTS 0402
MASTERS DEGREE CONT F/T**

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02922 OTS 0402FT ARR Staff 0.0 Permission Of Instructor

**OTS 0501
DOCTORIAL CONT PART TIME**

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02925 OTS 0501PT ARR Staff 0.0 Permission Of Instructor

**OTS 0502
DOCTORAL CONT FULL TIME**

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02926 OTS 0502FT ARR Staff 0.0 Permission Of Instructor

Peace & Justice Studies

PJS 0001

INTRO PEACE/JUSTICE STDY

Main concepts in the field of peace and justice studies. Extent of global militarization and its impact on human needs. Social movements and nonviolent social change. Possibilities of building a stable and just peace.

Sections

03113	PJS 000101	ARR	Joseph, Paul	1.0	Mw 1030am-1120a m, W 0930am-1020a m
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PJS 0002

ART HISTORY 1700-PRESENT

(SPRING 2012 & BEYOND). (Cross-listed as FAH 2). Major monuments and themes of world art and architecture from 1700 to the present, with emphasis on the function of art in society, politics, technology, and commerce; art and the idea of the modern; nature and abstraction. Tools and approaches to analyze and understand the language of the visual arts and how art affects us today. Includes field trips to local museums.

Sections

04296	PJS 000201	EMW	Mctighe, Monica	1.0	
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PJS 0099

INTERNSHIP-SOCIAL CHANGE

(Cross-listed with CIS 0099). Supervised fieldwork in a wide range of community, peace, justice, and social change organizations. Readings, guided group discussions, and written reports to integrate analysis and experience.

Prerequisites: PJS 1, one intermediate course each from core areas A through D, and one intermediate course from core area E which may be taken simultaneously.

Sections

03114	PJS 009901	ARR	Bryan, Dale	1.0	Meets Mon 4:30-7:15 Pm
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PJS 0130

WEALTH,POVERTY&INEQUALIT

(Cross-listed as SOC 130.) Socioeconomic class in U.S. with some global comparison. Intersections with race and gender. Social analysis of distribution of economic, social, political resources. Alternative visions and strategies for change. Opportunity for field placements in local community organizations.

Prerequisites: One sociology or comparable course, or permission of instructor.

Sections

03116	PJS 013001	G+	Ostrander, Susa	1.0	C-1st Soc 130
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PJS 0141

GLOBAL JUSTICE

(Cross-listed as PHIL 141.) A philosophical study of justice in a global context. Topics selected from the following: nationalism, identity and group rights, political resistance and revolution, the conduct of war, human rights and duties of aid, population control and environmental justice. Theoretical discussions of cultural pluralism and the requirements of justice, universalism versus relativism, and the limits of partiality.

Prerequisites: Junior standing or one course in philosophy, or permission of instructor.

Sections

03118	PJS 014101	D+	Mcperson, Lion	1.0	1 Phil Crs Or Jr Standing,c-1st Phil141
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PJS 0150

SPECIAL TOPICS

Please see departmental website for detailed information.

Sections

03119	PJS 015003				1.0	
03120	PJS 015004	2	Camara, Kathlee		1.0	C-list Cd 014304
03121	PJS 015005	D+	Ammons, Elizabe		1.0	C-1st Eng 160, Env 160

ARAB SPRING & NONVIOLENC

04654	PJS 015007	12+	Atshan, Saed		1.0	Pjs 001 Or Permission
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PEACE IMPLEMENT'N BOSNIA

04655	PJS 015008	8	Hitchner, Bruce		1.0	
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THE BLACK PANTHER PARTY

04619	PJS 015009	5	Joseph, Peniel		1.0	
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PJS 0160

ENV JUSTICE & U.S. LIT

(Cross-listed as ENG 160 and ENV 160). An examination of contemporary multicultural U.S. literature in relation to environmental justice concerns. Works by Helena María Viramontes, Gloria Naylor, Karen Tei Yamashita, Simon Ortiz, Annie Proulx, with particular attention to issues of environmental racism, ecofeminism, homophobia and the social construction of nature, U.S. environmental imperialism, and urban ecologies. Emphasis on the role of literature and the arts in social change, including practical strategies for activism.

Prerequisites: ENG 1, 2 REQUIRED or Fulfillment of College Writing Requirement. Recommended that the student already have taken either ENG 20,21,22, or 23.

Sections

04656	PJS 016001	D+	Ammons, Elizabe		0.0	
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PJS 0172

WAR & AMERICAN VALUES

(Cross-listed as ENG 172). Seminar on the relation of war to US culture and society. What values are Americans defending? What are they defending them against? In what respects are they vulnerable? The class will consider these questions through close analysis of literary texts, images, cultural criticism, political and military documents, and religious texts.

Prerequisites: ENG 1 & 2 or equivalent.

Sections

04657	PJS 017201	K+	Takayoshi, Ichi		0.0	Clist Eng 0172, Amer 0180-03
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PJS 0190

INTG SEM:PCE,JUS,SOC CHG

Guided development of senior research projects. Exploration of different obstacles and paths to peace and justice through interdisciplinary integration of a wide range of projects.

Please see departmental website for specific details.

Sections

03122	PJS 019001	6+	Cohen, Steven D		1.0	High Demand Reg At Dept
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PJS 0198

SENIOR HONORS THESIS

Seniors Honors Thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03124	PJS 019801	ARR	Hitchner, Bruce		1.0	Permission Of Instructor
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Philosophy

PHIL0001 INTRO TO PHILOSOPHY

The major types of philosophical thought and the central problems of philosophy are presented through study of some classic texts of the great philosophers. Offered each term. (May be used to satisfy the second half of the college writing requirement by students with credit for ENG 1.)

Sections

02957	PHIL000101	M+	Link, Monica	1.0
02958	PHIL000102	P+	Link, Monica	1.0
02959	PHIL000103	I+	Phillips, Chris	1.0
02960	PHIL000104	G+	Mcconnell, Jeff	1.0

INTRO TO PHIL THRU FILM

02961	PHIL000105	K+	Mcconnell, Jeff	1.0
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Must Also Register For Film Section 000105r

INTRO TO PHIL THRU FILM

02962	PHIL000105R	ARR	Mcconnell, Jeff	0.0
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Mandatory Film Screening Mondays 7:30-9:30pm

02963	PHIL000106	K+	Phillips, Chris	1.0
02964	PHIL000108	D+	Urbanek, Valent	1.0
02965	PHIL000109	F+TR	Urbanek, Valent	1.0
02966	PHIL000110	L+	Kober, Gal	1.0
02967	PHIL000111	J+	Kober, Gal	1.0

High Demand, Freshmen Only
High Demand, Freshmen Only

PHIL0006 REASONING&CRIT THINK

Introduction to the analysis of arguments as they occur in everyday legal, moral, and academic contexts. Topics include identifying fallacies in reasoning, elementary logical principles, standards of evidence, and constructing and evaluating arguments. Suitable for those who wish to develop their reasoning skills without taking a course in formal logic. Cannot be taken for credit if student has already taken PHIL 33.

Sections

02968	PHIL000601	F+TR	Russinoff, Susa	1.0
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PHIL0016 PHILOSOPHY OF RELIGION

(Cross-listed as REL 6.) Introduction to the philosophical analysis of major religious concepts, such as God, human nature, freedom of will, immortality, and the problem of evil through a study of representative types of religious philosophies.

Sections

02969	PHIL001601	F+TR	Lemons, Elizabe	1.0	C-1st Rel 0006
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PHIL0024 INTRO TO ETHICS

An introduction to moral judgment--and the reasoning it is based on--by a detailed study of current issues such as abortion, vegetarianism, and responsibility for war crimes, and the application to such problems of ethical theories, such as egoism, utilitarianism, and the doctrine of rights. Spring.

Sections

02975	PHIL002401	H+	Denby, David A	1.0
02970	PHIL0024RA	DR	Staff	0.0
02971	PHIL0024RB	DR	Staff	0.0
02972	PHIL0024RC	JR	Staff	0.0
02973	PHIL0024RD	LR	Staff	0.0
02974	PHIL0024RE	EF	Staff	0.0

Also Reg For Mandatory Recitation
Mandatory Rct Phil 24-01
Mandatory Rct Phil 24-01
Mandatory Rct Phil 24-01
Mandatory Rct Phil 24-01
Mandatory Rct Phil 24-01

PHIL0033 LOGIC

(Cross-listed as LING 33). An introduction to fundamental concepts of modern formal logic, including sentence logic, quantification theory, and identity. Emphasis on the application of formal methods to reasoning in philosophy, mathematics, and everyday affairs. Please note: only one of PHIL, LING 33 and 103 may be taken for credit.

Sections

02976	PHIL003301	JMJ+	Russinoff, Susa	1.0
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PHIL0038 RATIONAL CHOICE

Introduction to the systematic development of decision theory, game theory, and social choice theory. Emphasizes their application to problems in philosophy and the social sciences, and examines their foundations in the philosophical analysis of rationality.

Sections

02977	PHIL003801	D+	Forber, Patrick	1.0
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PHIL0042 WESTERN POL THOUGHT II

(Cross-listed as PS 42.) Central concepts of modern political thought. The views of those writers who challenged the dominance of Christianity: Machiavelli, Descartes, Hobbes, and others. Some of the main transformations of political thinking that characterized the Enlightenment: the possibility of scientific thinking and reasoning as the basis for human freedom. Nietzsche's critique of the Enlightenment, and the ability to find political principles that are genuinely true or liberating.

Sections

02978	PHIL004201	I+	Rasmussen, Denn 1.0	C-1st Ps 42
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PHIL0091 SPECIAL TOPICS

Special Topics.

Please see departmental website for specific details.

Sections

HAPPINES & THE GOOD LIFE				
04420	PHIL009101	K+	Olfert, Christi	1.0
A TOOL KIT FOR THINKING				
04637	PHIL009102	7	Dennett, Daniel	1.0

Frosh & Soph, Must Reg. In Philosophy Office

PHIL0094 HONORS THESIS

Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

02983	PHIL009402	ARR	Staff	1.0
02984	PHIL009403	ARR	Staff	1.0
02985	PHIL009404	ARR	Staff	1.0

PHIL0100 DEPT DISC GRP-DO NOT REG

See department for details.

Prerequisites: Consent only.

Sections

02986	PHIL0100RCT			0.0	Dept Use Only/do Not Reg For This Rct
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Philosophy

PHIL0110

BIOL FDNS OF LANGUAGE

(Cross-listed as LING 153 and PSY 153). Is the human ability to learn and use language a specialized cognitive capacity encoded in the genome, or is it just a consequence of having a large brain? Addresses the evidence bearing on this question, based on the character of language, language learning, and language disability. The degree to which the language faculty draws on other cognitive capacities, the relation of language to forms of animal communication, and hypotheses about the evolution of the language faculty.

Prerequisites: LING 15/PHIL 15, or consent.

Sections

04423	PHIL011001	I+MW	Jackendoff, Ray	1.0	Phil 15/psy 64 Or Consent
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PHIL0112

SYNTACTIC THEORY

(Cross-listed as PSY 151 and LING 112.) Syntax, the study of grammatical structure is the core subcomponent of contemporary linguistics. Syntactic categories, phrase structure, long-distance dependencies, the balance between grammar and lexicon and between syntax and semantics, syntactic universals, and the innate predispositions required for children to learn syntactic structure of their native languages.

Prerequisites: PHIL 15 or PSY 64 or LING 15.

Sections

04426	PHIL011201	E+MW	Jackendoff, Ray	1.0	Intro To Linguistics Or Consent
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PHIL0117

PHILOSOPHY OF MIND

A study of theories of the mind and examination of mental concepts such as memory, imagination, consciousness, belief, volition, sensation, and emotion.

Prerequisites: PHIL 1, and either PHIL 33 or a major in psychology.

Sections

02989	PHIL011701	G+	White, Stephen	1.0	Phil 01 Req, One Above 100 Level Rec, Or Consent
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PHIL0120

METAPHYSICS

A philosophical examination of concepts basic to our understanding of the world around us: the nature of abstract and concrete reality, problems of space and time, existence and identity, unity and plurality.

Prerequisites: PHIL 1 and 33, or permission of instructor.

Sections

02990	PHIL012001	F+TR	Denby, David A	1.0	Phil 0033 Or Phil 0103 Or Consent
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PHIL0124

BIOETHICS

A survey of major ethical problems of interest to the public and the medical profession, including life-and-death issues (abortion, euthanasia) as well as issues raised by medical research and technology (organ transplants, cloning, genetic engineering, psychosurgery, human experimentation) and the delivery of health services. The implications of ethical theories for the particular problem issues. Spring.

Prerequisites: Junior standing.

Sections

02991	PHIL012401	11	Silver, Mitchel	1.0	Phil 1 Or 24 Or Jr. Standing Or Greater Or Consent
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PHIL0133

PHILOSOPHY OF LANGUAGE

(Cross-listed as LING 133). Examination of concepts fundamental to the nature of language and speech: reference, meaning, speech acts and linguistic competence, the syntax and semantics of natural languages. Philosophical views on these topics, including those of Frege, Russell, Wittgenstein, Quine, Grice, Chomsky, and others.

Prerequisites: PHIL 1 and 33, or permission of instructor.

Sections

04431	PHIL013301	D+	Staff	1.0	At Least One Previous Phil Course
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PHIL0141

GLOBAL JUSTICE

(Cross-listed as PJS 141.) A philosophical study of justice in a global context. Topics selected from the following: nationalism, identity and group rights, political resistance and revolution, the conduct of war, human rights and duties of aid, population control, and environmental justice. Theoretical discussions of cultural pluralism and the requirements of justice, universalism vs. relativism, and the limits of partiality.

Prerequisites: Junior standing, or one course in philosophy, or permission of instructor.

Sections

02993	PHIL014101	D+	Mcperson, Lion	1.0	1 Phil Course Or Jr Standing Or Permis ,cl Pjs 141
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PHIL0152

HIST OF MODERN PHIL

Development of the main themes in Western philosophy since the seventeenth century through a reading of major texts by such philosophers as Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant.

Prerequisites: PHIL 1 or junior standing.

Sections

02995	PHIL015201	F+TR	Olfert, Christi	1.0	1 Philosophy Course Or Consent
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PHIL0168

NEWTON'S PRINCIPIA

Systematic examination of Newton's Principia, focusing on the revolutionary conception of scientific theory and evidence it puts forward, as well as on its substantive results. Issues within the philosophy of science raised by the Principia and by its reception over the 150 years following its publication.

Prerequisites: PHIL 167.

Sections

04433	PHIL016801	12+	Smith, George E	1.0	Phil 167 Or Permission Of Instructor
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PHIL0170

COMPUTATION THEORY

The nature and limits of symbol manipulation. Automata theory: McCulloch-Pitts networks; the relationship between machines and languages; computable functions; abacuses; the relationship between computation and formal logic; Gödel's incompleteness theorems for arithmetic.

Prerequisites: One or more courses taken from PHIL 33, EE 14, MATH 46, COMP 15.

Sections

04436	PHIL017001	JMJ+	Smith, George E	1.0	1 Of:phil33, Elec Engineer 14, Math46, Comp Sci 15
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Philosophy

PHIL0192

SEMINARS IN PHILOSOPHY

Systematic investigation of selected problems in philosophy, the subject to vary from term to term.

Please see departmental website for specific details.

Prerequisites: Two courses in philosophy.

Sections

SEMINAR IN METAETHICS

04438 PHIL019205 6+ Mcpherson, Lion 1.0

One Phil Course Of Permission Of Instructor

PHILOSOPHY OF LANGUAGE

04441 PHIL019206 K+ White, Stephen 1.0

CON PROBS IN PHIL OF SCI

04454 PHIL019207 7 Forber, Patrick 1.0

2 Courses In Phil Or Grad Student Or Consent

ARTIFI AGENTS & AUTONOMY

04458 PHIL019208 5 Dennett, Daniel 1.0

Grad-stu Or Upper Div Maj In Cog&brain Or Phil Cs

THE SELF

04489 PHIL019209 2 Staff 1.0

One Course In Philosophy

03012 PHIL029701 Russinoff, Susa 1.0 Kelly

PHIL0401

MASTERS DEGREE CONT.

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03018 PHIL0401PT 0.0 Philosophy Grad Students Only

PHIL0402

MASTERS DEGREE CONT.

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03019 PHIL0402FT 0.0 Philosophy Grad Students Only

PHIL0194

SPECIAL TOPICS

Individual tutorial study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03010 PHIL019401 ARR Staff 1.0 Register Via A One-on-one Course Form

PHIL0195

SPECIAL TOPICS

Courses on various topics in problems of philosophy or history of philosophy.

Please see departmental website for specific details.

Prerequisites: Sophomore standing. According to course topic and instructor.

Sections

04617 PHIL019501 6 Krinsky, Sheldo 1.0 Cross-listed With Uep 0286

PHIL0294

INDEPENDENT STUDY

Guided individual study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Sections

03011 PHIL029401 ARR Staff 1.0 Register Via A One-on-one Course Form

PHIL0297

GRADUATE WRITING SEMINAR

A writing workshop open to all Philosophy master's degree candidates who have completed at least one semester in the program. Graded SAT/UNSAT.

Prerequisites: Master's degree candidacy in Philosophy or permission of department chair; submission in advance of an acceptable paper draft or detailed paper outline to be polished during the course.

Sections

03012 PHIL029701 10+ Russinoff, Susa 1.0 1 Sem Tufts Phil Grad Pgm, Or Poi, 2nd Inst

Physical Education

**PE 0002
SWIMMING I**

This course should improve the student's physiological condition, teach an awareness of proper stroke technique, involve methods of teaching swimming, and explore some of the recent research projects in exercise physiology related especially to swimming. One-half course credit.

Sections

02927	PE 0002A	D+	Hoyt, Adam	0.5	Hamilton Pool, Beginning Level
02928	PE 0002B	E+MW	Hoyt, Adam	0.5	Hamilton Pool, pass/fail Only/adv Level

**PE 0006
YOGA**

Introduction to the fundamentals of yoga techniques, including exercises, breathing, and posture. One-half course credit.

Sections

POWER YOGA

02929	PE 0006B	G+	Mceldowney, Ell	0.5	Power Yoga/jackson Gym/ Lab Fee \$20
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POWER

02930	PE 0006C	I+	Mceldowney, Ell	0.5	Power/yogajaxl Gym, Lab Fee \$20
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IYENGAR

02932	PE 0006E	E+WF	Santora, Brenda	0.5	Iyengar Yoga/jackson Gym, Lab Fee \$20
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IYENGAR

02933	PE 0006F	ARR	Santora, Brenda	0.5	Iyengar Yoga/meets 9:05-10:20/jaxl Gym/\$20
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**PE 0007
ADVANCED YOGA**

Yoga poses with emphasis on advanced positions and techniques. May be repeated for credit.

Prerequisites: PE 06 - Beginning Yoga or consent.

Sections

POWER

04147	PE 0007A	H+	Mceldowney, Ell	0.5	Jackson Gym, Lab Fee \$20
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**PE 0008
PILATES**

Introduction to basic Pilates techniques including strengthening and lengthening of muscles, improving posture, tone and tightening body core.

Sections

02934	PE 0008A	K+	Graves, Sharon	0.5	Jaxl Gym, Lab Fee \$30
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**PE 0010
YOGALATES**

Yogalates integrates the practice of yoga with Pilates. Helps develop strength, flexibility through mind and body practice. Various poses and exercises explored throughout the semester. [0.5 credit course]

Sections

04148	PE 0010A	E+MW	Bigelow, Nancy	0.5	Undergrads Only/chase Gym
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**PE 0023
ROPES & ROCKS**

Introduction to rock climbing and ropes with emphasis on efficient technique and safety procedures. Field trips to local ropes courses and selected rock climbing sites. Mountain rescue techniques. One-half course credit.

Sections

02935	PE 002301	7+	Whiting, Martha	0.5	Metro Rock Everett/fee\$300 /pass/fail
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**PE 0024
DOWNHILL SKIING/SNOWBOARD**

Lessons at all levels, from beginner to advanced. Includes instruction in safety and appropriate equipment. Transportation and equipment rental provided by department. One-half course credit.

Sections

02936	PE 002401	ARR	Thompson, Cora	0.5	Meets 6 Wednesdays 4:30-9:30pm. Lab Fee \$350-\$385
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**PE 0032
SQUASH I**

Introduction to various shots, techniques, and strategy. One-half course credit.

Sections

02937	PE 0032A	G+	Eng, Douglas	0.5	Squash Courts/lab Fee \$40
02938	PE 0032B	H+	Velez, Belkys M	0.5	Squash Courts/lab Fee \$40

**PE 0033
TENNIS I**

Introduction to basic strokes, body mechanics, and strategy. One-half course credit.

Sections

02939	PE 0033A	F+TR	Eng, Douglas	0.5	Gantcher/students Provide Their Own Rackets
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**PE 0034
TENNIS II**

Advanced shots and tactics for students with consistent basic strokes. One-half course credit.

Prerequisites: Tennis I or permission of instructor.

Sections

04149	PE 0034A	H+TR	Kenney, Jaime C	0.0	Gantcher/students Provide Their Own Rackets
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**PE 0038
SQUASH II**

Review of basic squash skills with emphasis on advanced techniques and strategies. One-half course credit.

Prerequisites: PE 32 or permission of instructor.

Sections

04150	PE 0038A	D+	Eng, Douglas	0.5	Squash Courts/lab Fee \$40
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Physical Education

PE 0041

GOLF I

Basic background knowledge and experience in various elementary strokes. One-half course credit.

Sections

02940 PE 0041A D+ Shapiro, Josh 0.5 Carzo Cage, \$20 Lab Fee

PE 0042

SPINNING

Aerobic exercise that takes place on a stationary bicycle. Pedalling routines coordinated with music. No prior experience required. [0.5 credit course]

Sections

04151 PE 0042A H+TR Mcdavitt, Chris 0.5 Gantcher Center

PE 0043

MUSCLE CONDITIONING

Introduction to use of free weights and resistance bands to increase muscular strength, endurance, flexibility, toning, and maintenance of bone density. Emphasis on safety, proper technique, enjoyment, and lifetime adherence to fitness. One-half course credit.

Sections

02941 PE 0043A D+ Carr, Marlene 0.5 Chase Gym

PE 0046

WEIGHT TRAINING

Introduction to weight training activities through use of resistance exercises, free weights, and mechanical apparatus. Emphasis on various exercises, techniques, safety, and physiological benefits of strength, muscle tone, and power. One-half course credit.

Sections

02943 PE 0046A D+ Berube, Carla 0.5 Ames Fitness Center
 02944 PE 0046B H+TR Civetti, Jay 0.5 Ames Fitness Center
 02945 PE 0046C F+TR Staff 0.5 Ames Fitness Center
 04598 PE 0046D G+ Staff 0.5 Ames Fitness Center

PE 0047

AEROBICS - STEP

Low impact, rhythmic exercise, and aerobic movements to music. Emphasis on safety, enjoyment, and lifetime adherence to fitness. One-half course credit.

Sections

02946 PE 004701 F+TR Carr, Marlene 0.5 Chase Gym

PE 0048

STRENGTH TRAINING-WOMEN

Introduction to weight training for women with emphasis on resistance exercises and overall body fitness to build strength and muscle tone. Techniques, safety, and physiological benefits in using mechanical apparatus and free weights.

Sections

02947 PE 0048A E+MW Mcdavitt, Chris 0.5 Ames Fitness Center

PE 0049

SOCCER/BASKETBALL

Introduction to skills, strategy, and rules of various team sport activities such as soccer, basketball, and volleyball. One-half course credit.

Sections

04152 PE 0049A E+WF Shapiro, Josh 0.5 Carzo Cage, Main Gym

PE 0131

EMERGENCY CARE

A state-approved course in emergency medical technology. Trains participants for the Massachusetts EMT certification exam. Techniques in the comprehensive management of medical, traumatic, and psychiatric emergencies. Laboratory fee required. One course credit

Sections

02952 PE 013101 ARR Knowles, Edward 1.0 Lab Fee \$850

PE 0145

ADVANCED PRIN EXERCISE

Comprehensive approach to studying anatomy, physiology, and biomechanics of exercise. Principles and program development as related to exercise will be presented based on current exercise-science research. Designed to provide students with laboratory and theoretical background for teaching and coaching in sport and athletics. One course credit.

Prerequisites: PE 46 or permission of instructor.

Sections

02953 PE 014501 1+ Pimentel, Micha 1.0 Halligan Room 217a

Physics

NOTE: Students registering for PHY 1-01 or PHY 11-01 must register for PHY 1 labs. Unless you register for a lab, you can not register for PHY 1-01 or PHY 11-01.

PHY 0002

INTRO TO PHYSICS II W/LA

Continuation of PHY 001. Principles and concepts of electricity and magnetism, properties of waves, light, sound, atomic physics, nuclear and particle physics. Lectures, recitations, laboratories. Algebra, non-calculus based. PHY 002 and PHY 012 can not both be taken for credit.

Prerequisites: PHY 001 or 001N, 011, or 011N.

Sections

03028	PHY 000201	E	Napier, Austin	1.0	You Must Reg Phy 2 Recitation And Phy 12 Lab School Of Medicine, C-1st Phy 000201
03029	PHY 000202	E	Napier, Austin	1.0	
03022	PHY 0002RA	JT	Staff	0.0	
03023	PHY 0002RB	LT	Staff	0.0	
03024	PHY 0002RC	CW	Staff	0.0	
03025	PHY 0002RD	IW	Staff	0.0	
03026	PHY 0002RE	AR	Staff	0.0	
03027	PHY 0002RF	LR	Staff	0.0	
04646	PHY 0002RG	KW	Staff	0.0	

PHY 0006

PHYSICS FOR HUMANISTS

Intended for those who are intellectually and emotionally curious but do not intend to specialize in the natural sciences. Facts and concepts of classical and modern physics; eminent scientists and the emotions that have impelled them; nuclear energy and nuclear bombs; the interaction, both constructive and destructive, between science and society.

Sections

04301	PHY 000601	E+MW	Goldstein, Gary	1.0
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PHY 0011

GENERAL PHYSICS I W/LAB

Principles of classical mechanics, fluids, heat, thermodynamics. Lectures, recitations, laboratories. Calculus based. PHY 1 and PHY 11 can not both be taken for credit.

Prerequisites: Must be preceded or accompanied by MATH 11 or equivalent.

Sections

03047	PHY 001101	D+	Hammer, David	1.0	Must Register For Lab And Recitation
03030	PHY 0011LA	5	Staff	0.0	
03031	PHY 0011LB	5	Staff	0.0	
03032	PHY 0011LC	10	Staff	0.0	
03033	PHY 0011LD	10	Staff	0.0	
03034	PHY 0011LE	11	Staff	0.0	
03035	PHY 0011LF	11	Staff	0.0	
03036	PHY 0011LG	7	Staff	0.0	
03037	PHY 0011LH	7	Staff	0.0	
03038	PHY 0011LI	12	Staff	0.0	
03039	PHY 0011LJ	12	Staff	0.0	
03040	PHY 0011LK	13	Staff	0.0	
03041	PHY 0011LL	13	Staff	0.0	
03042	PHY 0011RA	JT	Staff	0.0	
03043	PHY 0011RB	LT	Staff	0.0	
03044	PHY 0011RC	KW	Staff	0.0	
03045	PHY 0011RD	MW	Staff	0.0	
03046	PHY 0011RE	CW	Staff	0.0	

PHY 0012

GENERAL PHYSICS II W/LAB

Continuation of PHY 0011. Principles of electricity and magnetism, waves, sound, and light. Lectures, recitations, laboratories. Calculus based. PHY 002 and PHY 012 cannot both be taken for credit.

Prerequisites: PHY 1, 1N, 11, or 11N. Must be preceded or accompanied by MATH 12 or equivalent.

Sections

03080	PHY 001201	C	Mann, A. Willia	1.0	Register For Phy 12 Lab And Phy 12
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03080	PHY 001201		Mann, A. Willia	1.0	Recitation
03048	PHY 0012LA	5	Staff	0.0	
04658	PHY 0012LAA	0	Staff	0.0	
03049	PHY 0012LB	5	Staff	0.0	
04659	PHY 0012LBB	ARR		0.0	Monday 4:15-6:45pm
03050	PHY 0012LC	ARR	Staff	0.0	Mon 7:00 -9:30 Pm
04660	PHY 0012LCC	ARR	Staff	0.0	Monday 4:15-6:45pm
03051	PHY 0012LD	ARR	Staff	0.0	Mon 7:00-9:30pm
04661	PHY 0012LDD	ARR		0.0	Tuesday 4:15-6:45pm
03052	PHY 0012LE	1	Staff	0.0	
04662	PHY 0012LEE	ARR	Staff	0.0	Tuesday 4:15-6:45pm
03053	PHY 0012LF	1	Staff	0.0	
03054	PHY 0012LG	6	Staff	0.0	
03055	PHY 0012LH	6	Staff	0.0	
03056	PHY 0012LI	ARR	Staff	0.0	
03057	PHY 0012LJ	11	Staff	0.0	
03058	PHY 0012LK	2	Staff	0.0	
03060	PHY 0012LM	7	Staff	0.0	
03061	PHY 0012LN	7	Staff	0.0	
03062	PHY 0012LO	12	Staff	0.0	
03063	PHY 0012LP	12	Staff	0.0	
03064	PHY 0012LQ	3	Staff	0.0	
03065	PHY 0012LR	3	Staff	0.0	
03066	PHY 0012LS	8	Staff	0.0	
03067	PHY 0012LT	8	Staff	0.0	
03068	PHY 0012LU	13	Staff	0.0	
03069	PHY 0012LV	13	Staff	0.0	
03072	PHY 0012LY	9	Staff	0.0	
03073	PHY 0012LZ	9	Staff	0.0	
03074	PHY 0012RA	J+T	Staff	0.0	
03075	PHY 0012RB	AR	Staff	0.0	
03076	PHY 0012RC	KW	Staff	0.0	
03077	PHY 0012RD	IW	Staff	0.0	
03078	PHY 0012RE	IM	Staff	0.0	
03079	PHY 0012RF	JM	Staff	0.0	

PHY 0016

SPECIAL TOPICS

A course in which the widespread application of physics will be discussed in a way suitable for a broad spectrum of undergraduates of variable and, possibly, minimal backgrounds in physics.

Please see departmental website for specific details.

Sections

TOPICS IN QUANTUM MECHAN					
03081	PHY 001601	L+	Tobin, Roger	1.0	Phy 61 Or Equivalent
THERMO: SCI/PEDAGOGY					
03082	PHY 001602	ARR	Gallagher, Hugh	1.0	Calc(math13 Or Equiv);1yr Intro Sci;consent;w 4:30-715

PHY 0025

BIOPHYSICS

(Cross-listed as BIO 119, BME 25 and 125.) Presentation at an introductory level of selected topics in physics relevant to modern medicine and biology. Development of topics to the point of application to biomedical problems. Topics drawn from acoustics, physics of fluids, diffusion, laser physics, and other subjects varying from year to year. Offered alternate years.

Prerequisites: PHY 1, 2, or 11, 12 or permission of instructor.
Corequisite: MATH 13.

Sections

04651	PHY 002501	D	Cebe, Peggy	1.0
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Physics

**PHY 0041
ELECTRONICS**

Resistors, capacitors and inductors, network analysis of linear circuits, power transfer, response of linear circuits to voltage steps and to sinusoidal voltages, semiconductor diodes, bipolar and field effect transistors, transistor amplifiers, negative feedback, operational amplifiers. Two lectures, one laboratory. Physics majors may substitute EE 3 and 4.

Prerequisites: PHY 2 or 2N, or 12 or 12N.

Sections

03084 PHY 004101 C Oliver, William 1.0 Prereq: Phy 2 Or 12

**PHY 0052
THERMAL PHYSICS**

Temperature, work, heat, and the laws of thermodynamics: reversibility and irreversibility, entropy, the properties of pure substances, and changes of phase. Introduction to statistical thermodynamics. Applications to astrophysics, atmospheric physics, biophysics, chemistry, cosmology, nuclear physics, and solid-state physics.

Prerequisites: PHY 013 and MATH 013. MATH 038 is desirable.

Sections

04647 PHY 005201 G+ Beauchemin, Pie 1.0 Prereq:phy 013 And Math 013,math 038 Is Desirable

**PHY 0064
EXPERMTL MODERN PHYSICS**

An advanced laboratory course featuring six experiments performed at two-week intervals. Typical experiments are the Cavendish experiment, the Millikan oil-drop experiment, the Franck-Hertz experiment, the Compton effect, positron annihilation, and the muon lifetime.

Prerequisites: PHY 13.

Sections

03086 PHY 006401 ARR Sliwa, Christop 1.0 Prereq: Physics 13

**PHY 0096
SENIOR THESIS**

A reading and research course open to seniors to study the experimental and theoretical aspects of a particular problem. Credit as arranged.

Please see departmental website for specific details.

Sections

03090 PHY 009601 ARR Staff 0.0-3.0 One On One Form Required

**PHY 0146
ELECTROMAG THEORY II**

Electro- and magnetostatics, the Maxwell equations, electromagnetic potentials, covariant formulation of electrodynamics, energy and momentum in the electromagnetic field, electromagnetic waves, radiation, and multipole expansions.

Sections

03093 PHY 014601 J+ Atherton, Timot 1.0

**PHY 0153
STATISTICAL MECHANICS**

Principles and applications of classical and quantum statistical mechanics; microcanonical, canonical, and grand canonical ensembles; Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac distributions; statistical basis of thermodynamics; and applications.

Prerequisites: PHY 52 or ES 7.

Sections

03094 PHY 015301 G+ Gunther, Leon 1.0 Pre Req: Physics 52 Or Engineering Science 7

**PHY 0164
QUANTUM PHYSICS II**

Wave functions and the Schrödinger equation, axioms of quantum mechanics and their meaning, equivalence of wave and matrix mechanics, angular momentum and spin, central forces, approximation methods and applications, scattering theory, identical particles and the exclusion principle.

Prerequisites: PHY 0163.

Sections

03095 PHY 016401 I+MW Ford, Lawrence 1.0

**PHY 0192
PHYSICS SEMINAR**

A weekly discussion course for seniors and first-year graduate students on topics of current interest in physics.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03097 PHY 019201 ARR Sliwa, Christop 1.0 For Both Undergraduate And Graduate Students

**PHY 0194
SELECTED TOPICS**

Lectures on advanced problems of physics. Topics to be announced. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03098 PHY 019401 ARR Staff 1.0 One On One Form Required

**PHY 0264
QUANTUM THRY OF FIELDS**

Topics vary from year to year, drawn from quantum electrodynamics, gauge theories, theory of weak interactions, many-body theory, and group theory.

Prerequisites: PHY 263.

Sections

04648 PHY 026401 E+MW Blanco-pillado, 1.0

**PHY 0268
COSMOLOGY**

The standard (big bang) cosmological model; expanding universe; background radiation, production of helium and other elements; galaxy formation; cosmological phase transitions; inflation; monopoles, strings and walls; quantum cosmology.

Prerequisites: Familiarity with general relativity and statistical physics.

Sections

04652 PHY 026801 D+ Vilenkin, Alexa 1.0

**PHY 0294
SPECIAL TOPICS**

Guided individual study of an approved topic. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03101 PHY 029401 ARR Staff 0.0-3.0 One On One Form Required

Physics

PHY 0296

THESIS

Guided research on a topic that has been approved as a suitable subject for a master's thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03104	PHY 029601		0.0-3.0	Permission Of Instructor
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PHY 0298

GRADUATE RESEARCH

Research on a topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03105	PHY 029801	Mann, A. Willia	0.0-3.0	Permission Of Instructor
03106	PHY 029802		0.0-3.0	Permission Of Instructor
03107	PHY 029803	Cebe, Peggy	0.0-3.0	Permission Of Instructor

PHY 0401

MASTERS DEGREE CONT.

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03108	PHY 0401PT		0.0	Permission Of Instructor
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PHY 0501

DOCTORAL DEGREE CONT

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03111	PHY 0501PT	ARR	Staff	0.0	Part Time, Permission Of Instructor
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PHY 0502

DOCTORAL DEGREE CONT

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03112	PHY 0502FT	ARR	Staff	0.0	Full Time, Permission Of Instructor
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Political Science

PS 0015

SO SEM: POLITICS & CITY

Three major problems in urban politics: the political economy of cities, especially issues involving community economic development; race and the city, emphasizing the problems facing the poorest residents of the inner city; and political empowerment, including analysis of neighborhood government. A methodologically focused course.

Sections

04077 PS 001501 5 Berry, Jeffrey 1.0 Soph Standing Only

PS 0019

SO SEM:AMER POLITICS

Sophomore seminar. Please see departmental website for specific details.

Sections

04078 PS 001902 G+ Masuoka, Natali 1.0

PS 0021

INTRO COMPAR POL

Theories and evidence in comparative politics, preparing students for upper-level courses that focus on specific regions, countries, and themes. The rise and fall of democracy in selected countries from different regions such as Western Europe, Eastern Europe and Russia, East Asia, South Asia, Africa, the Middle East, and Latin America.

Sections

03133 PS 002101 E+MW Shevel, Oxana 1.0

PS 0042

WESTERN POL THOUGHT II

(Cross-listed as PHIL 42.) Central concepts of modern political thought. The views of those writers who challenged the dominance of Christianity: Machiavelli, Descartes, Hobbes, and others. Some of the main transformations of political thinking that characterized the Enlightenment: the possibility of scientific thinking and reasoning as the basis for human freedom. Nietzsche's critique of the Enlightenment, and the ability to find political principles that are genuinely true or liberating.

Sections

03134 PS 004201 I+ Devigne, Robert 1.0 C-1st Phil 42

PS 0061

INTRO INTERNATIONAL REL

Examination of several conceptual designs intended to make order out of the essential anarchy in international relations, from a theoretical assessment of the nation-state and the nature of national power to an exploration of behavior among nation-states, including the ultimate problem of war and peace and an appraisal of the factors that give an age its particular characteristics.

Sections

03144 PS 006101 D+ Eichenberg, Ric 1.0 Reg For Mand Rct Ps 61-ra-rh,crs Meets Mon&wed Only

03135 PS 0061RA FT Eichenberg, Ric 0.0
 03136 PS 0061RB FR Eichenberg, Ric 0.0
 03137 PS 0061RC GF Eichenberg, Ric 0.0
 03138 PS 0061RD GF Eichenberg, Ric 0.0
 03139 PS 0061RE HF Eichenberg, Ric 0.0
 03140 PS 0061RF IW Eichenberg, Ric 0.0
 03141 PS 0061RG IF Eichenberg, Ric 0.0
 03142 PS 0061RH FF Eichenberg, Ric 0.0
 03143 PS 0061RI EF Eichenberg, Ric 0.0

PS 0099

FIELDWORK IN POLITICS

Internship placements with such employers as legislators, campaigns, news media, lobbies, law firms, and administrative agencies. Twelve to fifteen hours of work per week. Written assignments, with supporting readings, on organizational structure, goals and strategies, and occupational socialization.

Prerequisites: Permission of instructor.

Sections

03145 PS 009901 ARR Gleason, Nancy 1.0 By Arrangement With Instructor

PS 0102

CONGRESS,BUREAU,PUB POL

The focus of this course is on the national policy-making process. Examination of such topics as agenda building, the relationship between congressional elections and public policy outcomes, legislative process, congressional-agency relations, bureaucratic politics, and program implementation.

Prerequisites: Sophomore standing or permission of instructor.

Sections

03147 PS 010201 E+MW Berry, Jeffrey 1.0

PS 0118

TOPICS IN AMER POLITICS

Politics - Please see departmental website for specific details.

Sections

POL PARTIC & MASS BEHAV

04080 PS 011802 K+ Masuoka, Natali 1.0

PS 0120

SEM:POWER & POL IN CHINA

Advanced seminar on sources of political power and resistance in post-Mao Chinese politics. Debates in recent research over state strength, origins of political reform, development of civil society, prospects for democratization, corruption, censorship, religion, and protest.

Please see departmental website for specific details.

Prerequisites: PS 126 or HIST 44, or permission of instructor.

Sections

04081 PS 012001 7 Remick, Elizabe 1.0 Ps 126 Or Hist 40 Or Consent

PS 0128

GENDER,WORK&POL E ASIA

Gendered experiences of work in the East Asian economic "miracle." The state's role in creating, challenging, or mitigating gender considerations in work, the centrality of women's labor in development, and women's work as an international relations issue. Readings on factory, office, domestic, and sex work.

Prerequisites: Sophomore standing or permission of instructor.

Sections

04082 PS 012801 D+ Remick, Elizabe 1.0

PS 0130

SEM:AFRICAN POL ECONOMY

Theories of political economy with a focus on political liberalization and economic change. Issues include political reform, economic development, gender and sex roles, agricultural policy, debt, poverty, structural adjustment, and emerging African markets.

Please see departmental website for specific details.

Prerequisites: Sophomore standing or permission of instructor.

Sections

04083 PS 013001 6+ Robinson, Pearl 1.0 Soph Standing Or Above; Meets Packard Hall Conf Room

Political Science

**PS 0131
DEM & CAPITALISM JAPAN**

Survey of the world's second largest economy and postwar Asia's most stable democracy. Investigation of whether Japan's democracy is fundamentally different from the one practiced in the West; whether Japan's capitalism offers an alternative model that is more efficient and fair; and whether Japan should adopt a more assertive foreign policy in the post-cold war world.

Prerequisites: Sophomore standing or permission of instructor.

Sections

04084 PS 013101 P+ Fujihira, Shinj 1.0

**PS 0134
COMP POLITICS MID EAST**

Survey of the political development of the Arab states, Israel, Turkey, and Iran since the fall of the Ottoman Empire in World War I. Focus on the various factors that have helped shape the emergence of political institutions in those countries: history, economics, culture, religion, and foreign intervention. Prospects for future change (socioeconomic development, political liberalization, war and peace) in the Middle East.

Prerequisites: Sophomore standing or permission of instructor.

Sections

03152 PS 013401 F+TR Mufti, Malik 1.0

**PS 0136
CONTEMP EUR POLITICS**

Examination of contemporary issues in individual European states as well as those affecting the region as a whole. Topics include the political systems of individual European states, political parties and ideologies, immigration and the integration of foreigners, the welfare state, and the relationship between the European Union and individual member state.

Sections

03153 PS 013601 G+ Art, David 1.0

**PS 0138
TOPICS IN COMPAR POL**

Please see departmental website for specific details.

Sections

AUTHORITARIANISM

04085 PS 013801 2 Art, David 1.0

Meets Packard Hall Conference Room

POLITICAL VIOLENCE

03154 PS 013802 I+MW Cruz, Consuelo 1.0

CULTURE, POL & ENVI

03155 PS 013803 D+ Gleason, Nancy 1.0

POLITICAL ECONOMY INDIA

04641 PS 013811 N+ Mazaheri, Nimah 1.0

**PS 0139
SEM IN COMPAR POLITICS**

Please see departmental website for specific details.

Sections

GOVT, BUSINESS & PUB POL

04087 PS 013904 3 Mazaheri, Nimah 1.0

**PS 0167
STUDIES WAR & EMPIRE**

An introduction to basic issues in international relations theory such as the causes of war, the motivations behind imperialism, strategic thinking in various cultures, and the role of leadership. Major strategic thinkers such as Thucydides, Sun Tzu, Machiavelli, and Clausewitz.

Prerequisites: Sophomore standing or permission of instructor.

Sections

04088 PS 016701 D+ Mufti, Malik 1.0

**PS 0168
INTERNATIONAL LAW**

The function of international law in the international community and its relation to international politics, with special emphasis on the nature of the legal process.

Prerequisites: PS 61.

Sections

03169 PS 016801 ARR Staff 1.0 Prereq: Ps 61

**PS 0174
RISE & FALL GREAT POWERS**

Examination of international and domestic forces that have shaped strategies of rising and declining powers since 1648. Survey of various theoretical approaches (balance-of-power, hegemonic stability, domestic politics, culture) to understanding the diplomatic, military, and foreign economic strategies of major states: Great Britain, Germany, France, United States, Russia, and Imperial Japan.

Prerequisites: PS 61.

Sections

04664 PS 017401 D+ Taliaferro, Jef 1.0 T/r 10:30-11:45am

**PS 0176
MIGRATION/REFUGEES/CITIZ**

Analysis of the causes and consequences of modern population movements that have occurred around the world since the late twentieth century, and recipient states' reactions to it. Topics include the political, economic, social, and security determinants of refugee and migration flows; the political and social responses of receiving governments and societies; the security and crime-related issues and concerns engendered by international migration; changing conceptions of citizenship and nationality in receiving states; the role played by the international institutions in influencing state policies towards refugees and immigrants, and the moral and ethical issues for public policy posed by international population movements. Cases examined are drawn from throughout the world, with particular emphasis on Europe and the United States.

Prerequisites: PS 021, PS 061, or consent.

Sections

03171 PS 017601 G+ Greenhill, Kell 1.0 Co-taught Greenhill/shevel Prereq Ps61 Or Ps21

**PS 0180
REGIONALISM IN AFRICA**

The intersection of domestic politics and international relations in Africa: examination of regional economic communities, regionally based solutions to problem-solving, and new regionalism in the post Cold War era. Particular attention given to state-building and national sovereignty as they impinge on regional projects. Theories of the state, regional integration theory, international regime theory, and constructivist international relations theory frame five themes: the construction of regional norms, transnational civil society, peace and security, trade and economic development, and the African human rights system.

Prerequisites: Sophomore standing or consent.

Sections

04089 PS 018001 G+ Robinson, Pearl 1.0 Soph Standing Or Above

**PS 0188
TOPICS IN INTERN'L REL**

Please see departmental website for specific details.

Sections

03173 PS 018803 J+ Eichenberg, Ric 1.0 Prereq Ps 61 Recommended

03174 PS 018819 8 Swett, Katrina 1.0

03175 PS 018820 H+ Gleason, Nancy 1.0

03176 PS 018824 D+ Psalidopoulos, 1.0

04537 PS 018825 K+ Staff 1.0

Political Science

PS 0189

SEM IN INT'L RELATIONS

Please see departmental website for specific details.

Sections

FABRICATED FACTS IN IR

04091	PS 018907	12	Greenhill, Kell	1.0	Ps61;junior Standing Or Senior Standing;phcr
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PS 0195

SEM POL SUSTAINABLE COMM

Theories and practice of sustainability applied to cities and communities in the U.S. Comparison of specific cities' programs and policies. Patterns of variation in cities' operational definitions of sustainability, and specific local programs and policies that represent local sustainability initiatives. Political conditions conducive to local communities' pursuit of sustainability policies.

Please see departmental website for specific details.

Prerequisites: Sophomore standing or permission of instructor.

Sections

03178	PS 019501	6	Portney, Kent E	1.0	Ps 11 Or Consent
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PS 0199

SENIOR HONORS THESIS

Senior Honors Thesis.

Please see departmental website for specific details.

Sections

03198	PS 019901	ARR	Eichenberg, Ric	1.0	
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Portuguese

POR 0002

ELEMENTARY PORTUGUESE II

A continuation of POR 1. The course advances and completes the study of basic grammar and vocabulary. It provides the linguistic skills and cultural information needed in a broad range of situations met when studying, working or traveling in a Portuguese-speaking country. Students are required to register for a recitation section that consists of a weekly 40-minute conversation group. Conducted in Portuguese.

Prerequisites: POR 1 or equivalent.

Sections

03125	POR 0002A	C	Furtado, Ana El	1.0	Must Also Register For Recitation
03126	POR 0002B	E	Furtado, Ana El	1.0	Must Also Register For Recitation
04207	POR 0002C	H	Soares, Cristia	1.0	Must Also Register For Recitation
03127	POR 0002RA	ARR	Soares, Cristia	0.0	Mon 12:00-12:40
03128	POR 0002RB	ARR	Soares, Cristia	0.0	Mon 12:45-1:25 Pm
03129	POR 0002RC	ARR	Soares, Cristia	0.0	Wed 12:00-12:40 Pm

POR 0004

INTERMED PORTUGUESE II

Continues the review of fundamentals of grammar begun in POR 3 and encourages the development of a large active vocabulary and a greater awareness of Portuguese-speaking cultures. It aims at developing a level of language proficiency sufficient for survival in unusual or complicated situations (i.e., coping with an unforeseen event); and at participating in conversations about practical topics and current events. There will be regular lab assignments, compositions, class discussions, debates and oral presentations. Students are required to register for a recitation section that consists of a weekly 40-minute conversation group. Conducted in Portuguese.

Writing Workshop Section (WW) - Students will use writing as a means to become more deeply engaged in the readings and films, develop critical thinking, and improve their writing and discussion skills in Portuguese. No extra graded work will be assigned. The workshop will provide the opportunity to map ideas for compositions, engage in peer discussion of drafts, and have individual conferences with the instructor. The writing workshop requires an extra 50 minutes of class time each week, and in recognition of the extra time commitment, a record of participation will appear on the student's transcript. Participants must register for both POR 004 and POR 004WW.

Prerequisites: POR 3 or equivalent.

Sections

04208	POR 0004A	C	Soares, Cristia	1.0	Por 3 Or Consent
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POR 0192

SP TOP/PORTUGUESE CULTRE

This course is an advanced examination of a cultural topic (be it a literary genre, an author, a film tradition, a specific manifestation of popular culture, etc.) from any country or area where Portuguese is the main language. Conducted in Portuguese.

Sections

IMAGES OF BRAZIL

03131	POR 0192A	11+	Soares, Cristia	1.0	Por 22 Or Consent
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Psychology

**PSY 0001
INTRO TO PSYCHOLOGY**

Systematic survey of the field of psychology, covering important general principles in the topics of psychological development, sensory processes, perception, motivation, emotion, learning, thinking, intelligence, aptitudes, social problems, and personality.

Sections

03233 PSY 000101 D+ Nathanson, Sina 1.0
03234 PSY 000102 F+TR Nathanson, Sina 1.0

**PSY 0009
INTRO COGNITIV&BRAIN SCI**

Survey of the cognitive, computational and neuronal basis of thought. Topics include the relationship of cognitive and brain systems underlying language, memory, perception, attention, consciousness and development.

Sections

03235 PSY 000901 J+ Holcomb, Philli 1.0

**PSY 0011
DEVELOPMENTAL PSYCH**

A survey of behavioral, mental, and socio-emotional development during childhood from birth through adolescence. General principles of development and related empirical findings will be emphasized. Lectures, demonstrations, and observations of children.

Prerequisites: Psychology 1or junior or senior standing.

Sections

03236 PSY 001101 6 Goldsmith, Marc 1.0 Psy 1, Or Psy 9
Or Jr Or Sr
Standing

**PSY 0012
ABNORMAL PSYCHOLOGY**

An introduction to the field of mental and behavioral disorders, emphasizing the relationship between normal and abnormal processes. Empirical and experimental findings relevant to abnormal behavior will be presented.

Prerequisites: PSY 1 or 9 or junior/senior standing.

Sections

03237 PSY 001201 8 Kuperberg, Gina 1.0 Psy 1 Or Psy 9
Or Jr. Or Sr.
Standing

**PSY 0013
SOCIAL PSYCHOLOGY**

How situations and the people around us influence our thoughts, feelings, and behavior. Aggression, attitudes, attraction, attribution, conformity, group processes, helping behavior, non-verbal behavior, self-knowledge, social cognition, social influence, and stereotypes and prejudice. Applications of social psychological concepts to topics such as health, intergroup relations, and law.

Prerequisites: PSY 1 or junior or senior standing.

Sections

03239 PSY 001301 G+ Sommers, Sam 1.0 Psy 1 Or 9

**PSY 0017
INDUST/ORGANIZ PSYCH**

An examination of the roles, contributions, and limitations of psychology in business and industrial organizations. Topics include selection, training, and motivation of personnel; management and leadership; and consumer psychology.

Prerequisites: Junior or senior standing.

Sections

03240 PSY 001701 5+ Miller-jacobs, 1.0 Jr Or Sr
Standing

**PSY 0028
COGNITIVE PSYCHOLOGY**

Introduction to human mental processes. Topics include attention, perception, problem solving, pattern recognition, imagery, memory retention, language comprehension, and knowledge acquisition as fundamental processes of cognition.

Prerequisites: PSY 1.

Sections

03241 PSY 002801 L+ Chechile, Richa 1.0 Psy 1 Or 9 Or Jr
Or Sr Standing

**PSY 0029
HUMAN NEUROPSYCHOLOGY**

Survey of studies of the neuronal basis of human thought. Topics include human neuroanatomy and neurophysiology; relationship of brain systems to language, memory, and visual-spatial processes; neurological syndromes (e.g., split brain and aphasia).

Prerequisites: PSY 1.

Sections

03242 PSY 002901 12 Paczynska, Mart 1.0 Psy 1 Or Psy 9

**PSY 0031
STATS FOR BEHAV SCI**

Statistical methods for the treatment of data in the behavioral sciences. Descriptive and inferential methods will be considered. Computers will be used to explore conceptual issues and analyze data. One laboratory period in addition to lectures.

Prerequisites: PSY 1

Sections

03243 PSY 0031A ARR Kimball, Grayso 1.0 Psy 1 Or Psy 9
(reg For A,b,c,d
Only)
03244 PSY 0031B ARR Kimball, Grayso 1.0 Psy 1 Or Psy 9
(reg For A,b,c,d
Only)
03245 PSY 0031C ARR Kimball, Grayso 1.0 Psy 1 Or Psy 9
(reg For A,b,c,d
Only)
04094 PSY 0031D ARR Kimball, Grayso 1.0 Psy 1 Or Psy 9
(reg For A,b,c,d
Only)

**PSY 0032
EXPERIMENTAL PSYCHOLOGY**

A laboratory based on individual and group experiments designed to familiarize students with research methods in psychological investigations. Required for psychology majors. Lectures and one laboratory period.

Prerequisites: PSY 31.

Sections

03249 PSY 0032A ARR Urry, Heather 1.0 Psy 31 Or Bio
132 (reg For
A,b,c Only)
03250 PSY 0032B ARR Urry, Heather 1.0 Psy 31 Or Bio
132 (reg For
A,b,c Only)
03251 PSY 0032C ARR Urry, Heather 1.0 Psy 31 Or Bio
132 (reg For
A,b,c Only)

**PSY 0036
EXP SOCIAL PSY**

Laboratory and field approaches to the experimental study of social behavior. Attention will be directed to both classical research and recent innovation in social psychology. Lectures and laboratory.

Prerequisites: PSY 13 and 32.

Sections

03252 PSY 003601 10 Staff 1.0 Psy 13, 31, 32

Psychology

PSY 0037

RES METH:DEV PSY

A research methods course designed to familiarize students with observational and experimental techniques used to study child development. Students participate in research experiences involving naturalistic and laboratory procedures with infants and children.

Please see departmental website for specific details.

Prerequisites: CD 1 or PSY 11, and PSY 32

Sections

04092	PSY 003701	2	Bushnell, Emily	1.0	Psych 31 & 32: Cd1 Or Psych 11
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PSY 0038

RES METH CLIN PSY

Methods used to study personality and psychopathology, their nature and etiology. Methods include laboratory and naturalistic studies, projective and objective tests, methods for assessing reliability and validity, and single case studies.

Please see departmental website for specific details.

Prerequisites: PSY 31 and either PSY 12 or 15.

Sections

04541	PSY 003801	1	Shin, Lisa	1.0	Psy 31 & Either Psy 12 Or Psy 15
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PSY 0048

PSYCHOPHARM LAB

This laboratory course provides experience with experimental strategies and methods in psychopharmacology, using animals as subjects. Students will investigate how drugs affect motor and sensory processes, behavioral measures of memory, anxiety, depression, and psychosis.

Prerequisites: PSY 25 and 123 (may be concurrent), or equivalent.

Sections

03255	PSY 004801	ARR	Miczek, Klaus A	1.0	Psy 25 & 123 (may Be Concurrent) Or Equiv, Undrgrd
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PSY 0049

LAB:PSYCHOPHYSIOLOGY

Research methods used to study relationships between physiological systems and human behavior, including measures of autonomic (e.g., heart rate), sensory, and cognitive functions (e.g., EEG and evoked potentials).

Prerequisites: PSY 32; PSY 25, 29, 103 or 129, or BIO 134

Sections

04095	PSY 004901	10+	Midgley, Kather	1.0	Psy32 & 1 Of Psy09,25,26,28, 29,103,129,bio 134 Or Cons
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PSY 0055

HUM SEXUAL BEHAVIOR

A review of the psychology, physiology, and anatomy of sex with emphasis on human sexuality. Topics include embryogenesis and differentiation of sexual dimorphism, hormones and sexual behavior, cross-cultural studies of sexual behavior, heterosexual and homosexual scripts, contraception, sexual dysfunction, sex and the law, and pornography.

Prerequisites: PSY 1 or junior or senior standing.

Sections

03256	PSY 005501	D	Debold, Joseph	1.0	
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PSY 0056

DRUGS & BEHAVIOR

Introductory examination of how drugs, toxins, food additives, and other chemicals alter human behavior. Topics may include history and societal views of drug use, drugs for recreational purposes, alcohol, medicinal drugs, drugs in food and food as drugs, and environmental toxins; theories of why drugs are used and reasons for prescribing psychoactive drugs.

Prerequisites: PSY 1 or junior or senior standing.

Sections

03257	PSY 005601	6	Cohen, Carolyn	1.0	Psy 1 Or Jr Or Sr Standing
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PSY 0065

PHONOLOGICAL THEORY

(Cross-listed as LING 65). An introduction to phonological analysis -- the study of the sound patterns of the world's languages. Topics will include the structure of phonological representations (features, syllables, metrical structure), cross-linguistic universals, and how abstract phonological competence is related to articulatory and perceptual processes. Analysis of primary linguistic data and introduction to current debates in phonological theory.

Prerequisites: PSY 64, PHIL 15, LING 15, CD 143, or consent.

Sections

03259	PSY 006501	H+	Goldberg, Ariel	1.0	Psy 64
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PSY 0071

CLINICAL METHODS

Basic clinical concepts and skills, such as the helping relationship, interviewing, history taking, psychological testing, and report writing; their theoretical and empirical basis and appropriate application of the basic skills.

Prerequisites: Clinical Psych Major (declared); Psychology 12

Sections

03260	PSY 007101	2+	Jampel, Robert	1.0	Clin Psy Maj, Psy12 & Jr/sr Stat Or Perm
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PSY 0080

PSYCHOLOGY OF MUSIC

(Cross-listed as MUS 59). Examination of a wide range of topics in the psychology of music. Music perception; music cognition; music aesthetics; music and emotions; the influence of music on human behavior; the nature and measurement of musical abilities; music education and child development.

Sections

03261	PSY 008001	J+	Cook, Robert G	1.0	C-1st Mus 59*
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PSY 0092

RESEARCH IN PSYCHOLOGY

Designed for students who wish to participate in an ongoing program of research. The student is expected to do background reading relevant to the research and to participate in as many phases of the research as possible.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03262	PSY 009201	ARR	Ambady, Nalini	1.0	2 Previous Courses In Psych & Permission
03263	PSY 009202	ARR	Bushnell, Emily	1.0	2 Previous Courses In Psych & Permission
03264	PSY 009203	ARR	Chechile, Richa	1.0	2 Previous Courses In Psych & Permission
03265	PSY 009204	ARR	Cook, Robert G	1.0	2 Previous Courses In Psych & Permission

**Course Listings
Spring 2012**

Psychology

03266	PSY 009205	ARR	Debold, Joseph	1.0	2 Previous Courses In Psych & Permission	03290	PSY 009810	ARR	Miczek, Klaus A	1.0	Permission Of Instructor
03267	PSY 009206	ARR	Harder, David W	1.0	2 Previous Courses In Psych & Permission	03291	PSY 009812	ARR	Nathanson, Sina	1.0	Permission Of Instructor
03268	PSY 009207	ARR	Holcomb, Philli	1.0	2 Previous Courses In Psych & Permission	03292	PSY 009813	ARR	Staff	1.0	Permission Of Instructor
03269	PSY 009208	ARR	Kanarek, Robin	1.0	2 Previous Courses In Psych & Permission	03293	PSY 009814	ARR	Shin, Lisa	1.0	Permission Of Instructor
03270	PSY 009209	ARR	Maddox, Keith	1.0	2 Previous Courses In Psych & Permission	03294	PSY 009815	ARR	Sommers, Sam	1.0	Permission Of Instructor
03271	PSY 009210	ARR	Miczek, Klaus A	1.0	2 Previous Courses In Psych & Permission	03295	PSY 009816	ARR	Taylor, Holly	1.0	Permission Of Instructor
03272	PSY 009212	ARR	Nathanson, Sina	1.0	2 Previous Courses In Psych & Permission	03296	PSY 009817	ARR	Goldberg, Ariel	1.0	Permission Of Instructor
03273	PSY 009213	ARR	Staff	1.0	2 Previous Courses In Psych & Permission	03297	PSY 009818	ARR	Kuperberg, Gina	1.0	Permission Of Instructor
03274	PSY 009214	ARR	Shin, Lisa	1.0	2 Previous Courses In Psych & Permission	03298	PSY 009819	ARR	Urry, Heather	1.0	Permission Of Instructor
03275	PSY 009215	ARR	Sommers, Sam	1.0	2 Previous Courses In Psych & Permission	03299	PSY 009820	ARR	Thomas, Ayanna	1.0	Permission Of Instructor
03276	PSY 009216	ARR	Taylor, Holly	1.0	2 Previous Courses In Psych & Permission						
03277	PSY 009217	ARR	Goldberg, Ariel	1.0	2 Previous Courses In Psych & Permission						
03278	PSY 009218	ARR	Kuperberg, Gina	1.0	2 Previous Courses In Psych & Permission						
03279	PSY 009219	ARR	Urry, Heather	1.0	2 Previous Courses In Psych & Permission						
03280	PSY 009220	ARR	Thomas, Ayanna	1.0	2 Previous Courses In Psych & Permission						

**PSY 0099
INTERNSHIP**

Internship in settings (laboratories, hospitals, clinics, schools) where work is primarily psychological. Relevant course work must precede internship. A faculty member in the psychology department must sponsor students. Twelve hours per week and written work are required. Grading is pass/fail but the course may be used as an elective for psychology majors.

Please see departmental website for specific details.

Prerequisites: Sophomore standing, prior relevant course work, and permission of instructor.

Sections

03300	PSY 009901	ARR	Ambady, Nalini	1.0	Pass/fail Only & Permission Of Instructor
03301	PSY 009902	ARR	Bushnell, Emily	1.0	Pass Fail Only, Permission Of Inst
03302	PSY 009903	ARR	Chechile, Richa	1.0	Pass Fail Only, Permission Of Inst
03303	PSY 009904	ARR	Cook, Robert G	1.0	Pass Fail Only, Permission Of Inst
03304	PSY 009905	ARR	Debold, Joseph	1.0	Pass Fail Only, Permission Of Inst
03305	PSY 009906	ARR	Harder, David W	1.0	Pass Fail Only, Permission Of Inst
03306	PSY 009907	ARR	Holcomb, Philli	1.0	Pass Fail Only, Permission Of Inst
03307	PSY 009908	ARR	Kanarek, Robin	1.0	Pass Fail Only, Permission Of Inst
03308	PSY 009909	ARR	Maddox, Keith	1.0	Pass Fail Only, Permission Of Inst
03309	PSY 009910	ARR	Miczek, Klaus A	1.0	Pass Fail Only, Permission Of Inst
03310	PSY 009912	ARR	Nathanson, Sina	1.0	Pass Fail Only, Permission Of Inst
03311	PSY 009913	ARR	Staff	1.0	Pass Fail Only, Permission Of Inst
03312	PSY 009914	ARR	Shin, Lisa	1.0	Pass Fail Only, Permission Of Inst
03313	PSY 009915	ARR	Sommers, Sam	1.0	Pass Fail Only, Permission Of Inst
03314	PSY 009916	ARR	Taylor, Holly	1.0	Pass Fail Only, Permission Of Inst
03315	PSY 009917	ARR	Goldberg, Ariel	1.0	Pass Fail Only, Permission Of Inst
03316	PSY 009918	ARR	Kuperberg, Gina	1.0	Pass Fail Only, Permission Of Inst
03317	PSY 009919	ARR	Urry, Heather	1.0	Pass Fail Only, Permission Of Inst

**PSY 0098
READINGS IN PSYCHOLOGY**

A supervised readings course mutually arranged by a student and a faculty member. The goal of the course is to enable the student to become better informed on a specialized topic within psychology. An annotated bibliography or other written summary is ordinarily required. One credit each.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03281	PSY 009801	ARR	Ambady, Nalini	1.0	Permission Of Instructor
03282	PSY 009802	ARR	Bushnell, Emily	1.0	Permission Of Instructor
03283	PSY 009803	ARR	Chechile, Richa	1.0	Permission Of Instructor
03284	PSY 009804	ARR	Cook, Robert G	1.0	Permission Of Instructor
03285	PSY 009805	ARR	Debold, Joseph	1.0	Permission Of Instructor
03286	PSY 009806	ARR	Harder, David W	1.0	Permission Of Instructor
03287	PSY 009807	ARR	Holcomb, Philli	1.0	Permission Of Instructor
03288	PSY 009808	ARR	Kanarek, Robin	1.0	Permission Of Instructor
03289	PSY 009809	ARR	Maddox, Keith	1.0	Permission Of Instructor

Psychology

03318 PSY 009920 ARR Thomas, Ayanna 1.0 Pass Fail Only, Permission Of Inst

**PSY 0103
BRAIN & BEHAVIOR**

Advanced course on the relation between behavior and the structure and function of the nervous system. Lectures and demonstrations. Students cannot receive credit for both PSY 25 and PSY 103. Biopsychology majors, who completed PSY 25 before declaring the major, should speak with an advisor about substituting PSY 104 for the PSY 103 major requirement.

Prerequisites: Biopsychology major, or BIO 13 and 14; CHEM 1 is recommended; cannot receive credit for 103 if 25 has already been taken

Sections

03319 PSY 010301 J+ Debold, Joseph 1.0 Biopsy Maj Or Bio 13&14;chem 1 Recmnd

**PSY 0106
SEM:CLINICAL PSYCHOLOGY**

Issues involved in the clinical evaluation, measurement, and treatment of psychological disturbances. Emphasis will be on psychotherapeutic intervention.

Please see departmental website for specific details:
<http://ase.tufts.edu/psychology/>

Prerequisites: PSY 12; PSY 32 or 71, or permission of instructor.

Sections

03321 PSY 010601 8 Harder, David W 1.0 Psy 12, 31, Or 71 And Consent

**PSY 0108
ADV STATISTICS II**

Consideration of certain multivariate designs, regression, and the analysis of covariance.

Prerequisites: PSY 107.

Sections

03322 PSY 010801 F+ Chechile, Richa 1.0 Psy 107

**PSY 0119
FAMILY DYNAMICS&THERAPY**

Introduction to family dynamics as well as to techniques of family diagnosis, interventions, and therapy.

Prerequisites: PSY 12 or permission of instructor.

Sections

04096 PSY 011901 9 Greenwald, Debo 1.0 Psy 12

**PSY 0123
PSYCHOPHARMACOLOGY**

Introduction to the study of the relationship between drugs, brain, behavior, and environment. Analysis of drug effects on motor function, appetite, sleep, sex, aggression, learning, and memory. Mental disorders and animal models of drug addiction. Lectures and laboratory.

Prerequisites: PSY 25 or 103.

Sections

03324 PSY 012301 F+TR Miczek, Klaus A 1.0 Psy 25 Or Psy 103

**PSY 0130
ADV ENGINEERING PSY**

Seminar on the various functions that humans perform in complex modern human-machine systems. Examination of psychological and engineering theories and models as they relate to these functions.

Prerequisites: Three courses in psychology, including PSY 53, or graduate standing.

Sections

03326 PSY 013001 4 Brunye, Tad 1.0 Psy 53 Or Graduate Standing

**PSY 0133
PSYCHOLOGY & THE LAW**

Seminar examining legal system from perspective of experimental psychology. Topics include criminal behavior, police investigations and interrogations, eyewitness performance, child testimony, abuse memory, jury deliberations, and use of psychology in court.

Prerequisites: One of the following: PSY 11, 13, 25, 27, 28, 29, or 32.

Sections

04097 PSY 013301 E+MW Sommers, Sam 1.0 Psy 32

**PSY 0149
PSYCH OF LANGUAGE**

(Cross-listed as LING 149). Study of language as a perceptual and cognitive process with particular focus on theory and data as they relate to comprehension, production, and speech perception. Critical examination of contributions of linguistic theory, theories of language learning, and data from areas such as language disorders, cerebral dominance, sociolinguistics, and reading processes.

Prerequisites: Any 2 courses in Psychology or Graduate Standing

Sections

03329 PSY 014901 J+ Goldberg, Ariel 1.0 Graduate Standing Or Any Two Courses In Psych

**PSY 0151
SYNTACTIC THEORY**

(Cross-listed as PHIL 112 and LING 112.) Syntactic theory, the study of grammatical structure, is the core subcomponent of contemporary linguistics. Topics of the course include: Syntactic categories, phrase structure, long-distance dependencies, the balance between grammar and lexicon and between syntax and semantics, syntactic universals, and the innate predispositions required for children to learn the syntactic structure of their native languages. Multiple theoretical approaches will be compared.

Prerequisites: PHIL 15 or PSY 64 or LING 15.

Sections

04450 PSY 015101 E+MW Jackendoff, Ray 1.0

**PSY 0153
BIOL FDNS OF LANGUAGE**

(Cross-listed as LING 153 and PHIL 110). Is the human ability to learn and use language a specialized cognitive capacity encoded in the genome, or is it just a consequence of having a large brain? Addresses the evidence bearing on this question, based on the character of language, language learning, and language disability. The degree to which the language faculty draws on other cognitive capacities, the relation of language to forms of animal communication, and hypotheses about the evolution of the language faculty.

Prerequisites: LING 15/PHIL 15, or consent.

Sections

04447 PSY 015301 I+MW Jackendoff, Ray 1.0

**PSY 0182
SEM:FIELDWORK**

A didactic and supervisory group seminar for students in field placement. At least twelve hours per week doing supervised clinical work in a mental health facility is required. The presentation of clinical work by students will be the basis of discussion.

Please see departmental website for specific details.

Prerequisites: Clinical Psych Major and Senior year only.

Sections

03330 PSY 0182A 13 Kuperberg, Gina 1.0 Clinical Psy Major & Sr Only; Preq: Psy 181 (cont)
03331 PSY 0182B 4 Harder, David W 1.0 Psy 12, 71, And 106 Or Consent

Psychology

**PSY 0192
UNDERGRAD INDEP RESEARCH**

Graduate students and advanced undergraduates participate in all phases of a research project. The student's contribution should be such as to warrant inclusion of his or her name among the authors of a publication. One credit each.

Please see departmental website for specific details.

Prerequisites: PSY 32 is ordinarily required. Permission of instructor.

Sections

03332	PSY 019201	ARR	Ambady, Nalini	1.0	2 Previous Courses In Psych & Permission
03333	PSY 019202	ARR	Bushnell, Emily	1.0	2 Previous Courses In Psych & Permission
03334	PSY 019203	ARR	Chechile, Richa	1.0	2 Previous Courses In Psych & Permission
03335	PSY 019204	ARR	Cook, Robert G	1.0	2 Previous Courses In Psych & Permission
03336	PSY 019205	ARR	Debold, Joseph	1.0	2 Previous Courses In Psych & Permission
03337	PSY 019206	ARR	Harder, David W	1.0	2 Previous Courses In Psych & Permission
03338	PSY 019207	ARR	Holcomb, Philli	1.0	2 Previous Courses In Psych & Permission
03339	PSY 019208	ARR	Kanarek, Robin	1.0	2 Previous Courses In Psych & Permission
03340	PSY 019209	ARR	Maddox, Keith	1.0	2 Previous Courses In Psych & Permission
03341	PSY 019210	ARR	Miczek, Klaus A	1.0	2 Previous Courses In Psych & Permission
03342	PSY 019212	ARR	Nathanson, Sina	1.0	2 Previous Courses In Psych & Permission
03343	PSY 019213	ARR	Staff	1.0	2 Previous Courses In Psych & Permission
03344	PSY 019214	ARR	Shin, Lisa	1.0	2 Previous Courses In Psych & Permission
03345	PSY 019215	ARR	Sommers, Sam	1.0	2 Previous Courses In Psych & Permission
03346	PSY 019216	ARR	Taylor, Holly	1.0	2 Previous Courses In Psych & Permission
03347	PSY 019217	ARR	Goldberg, Ariel	1.0	2 Previous Courses In Psych & Permission
03348	PSY 019218	ARR	Kuperberg, Gina	1.0	2 Previous Courses In Psych & Permission
03349	PSY 019219	ARR	Urry, Heather	1.0	2 Previous Courses In Psych & Permission
03350	PSY 019220	ARR	Thomas, Ayanna	1.0	2 Previous Courses In Psych & Permission

**PSY 0195
SR SEM:COGNITIVE&BRAIN S**

Year-long weekly research meeting of seniors in Cognitive and Brain Science. Provides a forum for discussion, presentation and planning of senior research projects, as well as exposing students to a range of faculty and graduate student research.

Prerequisites: Senior standing or consent.

Sections

03362	PSY 019501	ARR	Cook, Robert G	0.5	Senior Standing (.5 Credit Course)
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**PSY 0196
SEMINAR IN PSYCHOLOGY**

Contemporary problems in selected areas of psychology.

Please see departmental website for specific details.

Prerequisites: PSY 1.

Sections

SEMINAR IN SOCIAL PSYCH					
03363	PSY 019601	12	Freeman, Jon	1.0	Psy 1
AUTISM & NEURODEV DISORD					
03364	PSY 019602	13	Griffin, Richar	1.0	Preq: Psy 11 Or Cd 001 Or Permission Of Instructor

**PSY 0198
SUPERV READ IN SP TOP**

Supervised Reading in Special Topics.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03367	PSY 019801	ARR	Ambady, Nalini	1.0	Permission Of Instructor
03368	PSY 019802	ARR	Bushnell, Emily	1.0	Permission Of Instructor
03369	PSY 019803	ARR	Chechile, Richa	1.0	Permission Of Instructor
03370	PSY 019804	ARR	Cook, Robert G	1.0	Permission Of Instructor
03371	PSY 019805	ARR	Debold, Joseph	1.0	Permission Of Instructor
03372	PSY 019806	ARR	Harder, David W	1.0	Permission Of Instructor
03373	PSY 019807	ARR	Holcomb, Philli	1.0	Permission Of Instructor
03374	PSY 019808	ARR	Kanarek, Robin	1.0	Permission Of Instructor
03375	PSY 019809	ARR	Maddox, Keith	1.0	Permission Of Instructor
03376	PSY 019810	ARR	Miczek, Klaus A	1.0	Permission Of Instructor
03377	PSY 019812	ARR	Nathanson, Sina	1.0	Permission Of Instructor
03378	PSY 019813	ARR	Staff	1.0	Permission Of Instructor
03379	PSY 019814	ARR	Shin, Lisa	1.0	Permission Of Instructor
03380	PSY 019815	ARR	Sommers, Sam	1.0	Permission Of Instructor
03381	PSY 019816	ARR	Taylor, Holly	1.0	Permission Of Instructor
03382	PSY 019817	ARR	Goldberg, Ariel	1.0	Permission Of Instructor
03383	PSY 019818	ARR	Kuperberg, Gina	1.0	Permission Of Instructor
03384	PSY 019819	ARR	Urry, Heather	1.0	Permission Of Instructor
03385	PSY 019820	ARR	Thomas, Ayanna	1.0	Permission Of Instructor

Psychology

**PSY 0199
SENIOR HONORS THESIS**

Senior Honors Thesis.

Please see departmental website for specific details.

Sections

03386	PSY 019901	ARR	Ambady, Nalini	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03387	PSY 019902	ARR	Bushnell, Emily	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03389	PSY 019904	ARR	Cook, Robert G	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03390	PSY 019905	ARR	Debold, Joseph	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03391	PSY 019906	ARR	Harder, David W	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03392	PSY 019907	ARR	Holcomb, Philli	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
04522	PSY 019908	ARR	Kanarek, Robin	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03394	PSY 019909	ARR	Maddox, Keith	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03395	PSY 019910	ARR	Miczek, Klaus A	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03396	PSY 019912	ARR	Nathanson, Sina	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03397	PSY 019913	ARR	Griffin, Richar	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03398	PSY 019914	ARR	Shin, Lisa	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03399	PSY 019915	ARR	Sommers, Sam	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03400	PSY 019916	ARR	Taylor, Holly	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03401	PSY 019917	ARR	Goldberg, Ariel	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03402	PSY 019918	ARR	Kuperberg, Gina	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03403	PSY 019919	ARR	Urry, Heather	1.0	Recv Y Grade, Once Completed Will Recv 2 Credits;poi
03404	PSY 019920	ARR	Thomas, Ayanna	1.0	Recv Y Grade, Once Completed Will

03404 PSY 019920 Thomas, Ayanna 1.0 Recv 2 Credits;poi

**PSY 0212
PSYCHOPATHOLOGY**

Research approaches to the etiology, maintenance, and change of abnormal behavior.

Prerequisites: Graduate Standing.

Sections

04098 PSY 021201 5 Shin, Lisa 1.0 Grad Standing Or Permission Of Instructor

**PSY 0213
CONTEM ISSUES SOC PSY**

Current debate on selected topics in social psychology, with emphasis on such areas as research methodology, analytic approaches, and professional issues. Topics vary by semester.

Prerequisites: Graduate standing or permission of instructor.

Sections

AUTISM & NEURODEV DISORD

04099 PSY 021301 13 Griffin, Richar 1.0 Graduate Standing/meets Concurrently W Psy 196-02

**PSY 0245
ISSUES ACROSS PSYCHOLOGY**

General interest graduate seminar on mentally representing and using information. Topics include mental representation formats, normal and atypical representations, conscious and unconscious access to mental representations, internal and external influences on mental representations, distortions and errors in representations, and how mental representations are used across contexts.

Prerequisites: Graduate standing or consent.

Sections

04130 PSY 024501 ARR Taylor, Holly 1.0 Graduate Standing

**PSY 0292
GRADUATE RESEARCH**

Guided individual experimentation in an approved area. Credit as arranged.

Please see departmental website for specific details.

Sections

03410	PSY 029201	ARR	Ambady, Nalini	1.0	Permission Of Instructor
03411	PSY 029202	ARR	Bushnell, Emily	1.0	Permission Of Instructor
03412	PSY 029203	ARR	Chechile, Richa	1.0	Permission Of Instructor
03413	PSY 029204	ARR	Cook, Robert G	1.0	Permission Of Instructor
03414	PSY 029205	ARR	Debold, Joseph	1.0	Permission Of Instructor
03415	PSY 029206	ARR	Harder, David W	1.0	Permission Of Instructor
03416	PSY 029207	ARR	Holcomb, Philli	1.0	Permission Of Instructor
03417	PSY 029208	ARR	Kanarek, Robin	1.0	Permission Of Instructor
03418	PSY 029209	ARR	Maddox, Keith	1.0	Permission Of Instructor
03419	PSY 029210	ARR	Miczek, Klaus A	1.0	Permission Of Instructor
03420	PSY 029212	ARR	Nathanson, Sina	1.0	Permission Of Instructor
03421	PSY 029213	ARR	Staff	1.0	Permission Of Instructor
03422	PSY 029214	ARR	Shin, Lisa	1.0	Permission Of Instructor
03423	PSY 029215	ARR	Sommers, Sam	1.0	Permission Of Instructor
03424	PSY 029216	ARR	Taylor, Holly	1.0	Permission Of Instructor

**Course Listings
Spring 2012**

Psychology

03425	PSY 029217	ARR	Goldberg, Ariel	1.0	Permission Of Instructor	03460	PSY 029814	ARR	Shin, Lisa	1.5	Permission Of Instructor
03426	PSY 029218	ARR	Kuperberg, Gina	1.0	Permission Of Instructor	03461	PSY 029815	ARR	Sommers, Sam	1.5	Permission Of Instructor
03427	PSY 029219	ARR	Urry, Heather	1.0	Permission Of Instructor	03462	PSY 029816	ARR	Taylor, Holly	1.5	Permission Of Instructor
03428	PSY 029220	ARR	Thomas, Ayanna	1.0	Permission Of Instructor	03463	PSY 029817	ARR	Goldberg, Ariel	1.5	Permission Of Instructor
						03464	PSY 029818	ARR	Kuperberg, Gina	1.5	Permission Of Instructor
						03465	PSY 029819	ARR	Urry, Heather	1.5	Permission Of Instructor
						03466	PSY 029820	ARR	Thomas, Ayanna	1.5	Permission Of Instructor

**PSY 0296
MASTERS THESIS**

Guided research on a topic that has been approved as a suitable subject for a master's thesis.

Sections

03429	PSY 029601	ARR	Ambady, Nalini	0.0-3.0	Permission Of Instructor
03430	PSY 029602	ARR	Bushnell, Emily	0.0-3.0	Permission Of Instructor
03431	PSY 029603	ARR	Chechile, Richa	0.0-3.0	Permission Of Instructor
03432	PSY 029604	ARR	Cook, Robert G	0.0-3.0	Permission Of Instructor
03433	PSY 029605	ARR	Debold, Joseph	0.0-3.0	Permission Of Instructor
03434	PSY 029606	ARR	Harder, David W	0.0-3.0	Permission Of Instructor
03435	PSY 029607	ARR	Holcomb, Philli	0.0-3.0	Permission Of Instructor
03436	PSY 029608	ARR	Kanarek, Robin	0.0-3.0	Permission Of Instructor
03437	PSY 029609	ARR	Maddox, Keith	0.0-3.0	Permission Of Instructor
03438	PSY 029610	ARR	Miczek, Klaus A	0.0-3.0	Permission Of Instructor
03439	PSY 029612	ARR	Nathanson, Sina	0.0-3.0	Permission Of Instructor
03440	PSY 029613	ARR	Staff	0.0-3.0	Permission Of Instructor
03441	PSY 029614	ARR	Shin, Lisa	0.0-3.0	Permission Of Instructor
03442	PSY 029615	ARR	Sommers, Sam	0.0-3.0	Permission Of Instructor
03443	PSY 029616	ARR	Taylor, Holly	0.0-3.0	Permission Of Instructor
03444	PSY 029617	ARR	Goldberg, Ariel	0.0-3.0	Permission Of Instructor
03445	PSY 029618	ARR	Kuperberg, Gina	0.0-3.0	Permission Of Instructor
03446	PSY 029619	ARR	Urry, Heather	0.0-3.0	Permission Of Instructor
03447	PSY 029620	ARR	Thomas, Ayanna	0.0-3.0	Permission Of Instructor

**PSY 0298
PHD DISSERTATION**

Guided research on a psychological topic suitable for a doctoral dissertation. Credit as arranged.

Please see departmental website for specific details.

Sections

03448	PSY 029801	ARR	Ambady, Nalini	1.5	Permission Of Instructor
03449	PSY 029802	ARR	Bushnell, Emily	1.5	Permission Of Instructor
03450	PSY 029803	ARR	Chechile, Richa	1.5	Permission Of Instructor
03451	PSY 029804	ARR	Cook, Robert G	1.5	Permission Of Instructor
03452	PSY 029805	ARR	Debold, Joseph	1.5	Permission Of Instructor
03453	PSY 029806	ARR	Harder, David W	1.5	Permission Of Instructor
03454	PSY 029807	ARR	Holcomb, Philli	1.5	Permission Of Instructor
03455	PSY 029808	ARR	Kanarek, Robin	1.5	Permission Of Instructor
03456	PSY 029809	ARR	Maddox, Keith	1.5	Permission Of Instructor
03457	PSY 029810	ARR	Miczek, Klaus A	1.5	Permission Of Instructor
03458	PSY 029812	ARR	Nathanson, Sina	1.5	Permission Of Instructor
03459	PSY 029813	ARR	Staff	1.5	Permission Of Instructor

PSY 0401

MASTERS DEGREE CONT P/T

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03475	PSY 0401PT	ARR	Staff	0.0	Permission Of Instructor
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PSY 0402

MASTERS DEGREE CONT F/T

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03476	PSY 0402FT	ARR	Staff	0.0	Permission Of Instructor
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PSY 0501

DOCTORAL DEGREE CONT

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03479	PSY 0501PT	ARR	Staff	0.0	Part Time/perm Of Inst
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PSY 0502

DOCTORAL DEGREE CONT

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03480	PSY 0502FT	ARR	Staff	0.0	Ft;perm Of Inst;fewer Than3 Crs,sign Up Psy 502 Ft Con
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Religion

REL 0006

PHILOSOPHY OF RELIGION

(Cross-listed as PHIL 16.) Introduction to the philosophical analysis of major religious concepts, such as God, human nature, freedom of will, immortality, and the problem of evil, through a study of representative types of religious philosophies.

Sections

03481 REL 000601 F+TR Lemons, Elizabe 1.0 C-1st Phil 0016

REL 0022

INTRO TO NEW TESTAMENT

Study of the origins of Christianity and the evolution of its earliest beliefs and practices, as reflected in the writings ultimately selected for its canon. Jesus and his interpreters, Paul and his letters, beginnings of the church, interaction between Christians and their Jewish and Greco-Roman environments, women's participation in the shaping of early Christian history. Occasional readings from non-canonical literature to add perspectives.

Sections

03483 REL 002201 F+TR Hutaff, Margare 1.0

REL 0025

MEDIEVAL ARCHITECTURE

(Cross-listed as FAH 25) Social histories of medieval buildings from c.300 - c. 1400 CE., with particular attention to space, audience and experience. Course themes include: architecture and remembrance in the early Christian period; liturgy and ritual; gendered spaces in medieval monasteries; architects, masons and engineering; castles and the ideology of conquest; late medieval civic architecture; timber/stone construction; symbolism in the Gothic cathedral; and cross-cultural forms. May be taken at 100 level with consent.

Sections

04186 REL 002501 H+ Overbey, Karen 1.0 C-list Fah 002501

REL 0028

MEDIEVAL ART MEDITERRANE

(Cross-listed as FAH 28.) Integrated study of the shared art and culture of the Mediterranean from late antiquity through medieval times (3rd – 13th centuries CE). Architecture, painting, mosaic and luxury objects will be considered with a focus on continuities and dynamic cultural intersections across religious and political boundaries in European, Islamic, and Byzantine realms. Topics include the early church, synagogue, and mosque; figural and non-figural imagery in Pagan, Jewish, Christian, and Islamic contexts; relationships between secular and sacred and between majority and minority cultures. (May be taken at the 100 level by advanced students for which research papers are required.)

Sections

04188 REL 002801 J+ Hoffman, Eva R 1.0 C-list Fah 002801

REL 0040

HISTORY OF REL IN AMER

(Cross-listed as HIST 31). Historical survey of religion in America, from Columbus's voyage in 1492 to the present. Native American and African-American traditions, the first plantings of European traditions (Catholicism, Anglicanism, Puritanism, Lutheranism, and Judaism), the birth of uniquely American denominations (Mormonism, Adventism, Christian Science, and Pentecostalism). Colonialism, slavery, the Enlightenment, biblicism, church-state relations, and the religious history of the Boston area.

Sections

03485 REL 004001 G+ Curtis, Heather 1.0 C-1st Hist 31, Amer 194-02

REL 0044

INTRO TO HINDUISM

Aspects of Hinduism, ancient and modern. Readings include the more important texts of the tradition. Emphasis on issues of God, gods, the soul, ritual, and caste duties. Modern Hindu practices in India and the impact of the Ramayana on religion and politics.

Sections

03486 REL 004401 J+ Hatcher, Brian 1.0

REL 0053

INTRO RELIGIONS OF CHINA

Historical introduction to texts and contexts of major Chinese religions from Shang Dynasty shamanic practices to debates about religion in contemporary China. Historical and literary approaches to the study of religions in China. Interactions between folk and elite traditions, and alternating syncretism and competition between religions.

Sections

03487 REL 005301 1 Walsler, Joseph 1.0

REL 0065

INTRO YIDDISH CULTURE

(Cross-Listed as JS 65). An examination of the roots of East European Jewish culture, beginning with a 6000-year survey of the religions of Abraham; a brief examination of the origins of Judaism, the evolution of Christianity and Islam; the historic migration of the Jewish people from Asia to Western Europe and eventually to Czarist Russia; the rise and fall of Yiddish literature; the end of the Shtetl world; and the American experience. Readings include Sholom Aleichem, Sholem Asch, I. B. Singer, Bernard Malamud, and Phillip Roth. Stress on universal cultural patterns and similarities of ethnic experience.

Sections

03488 REL 006501 H+ Gittleman, Sol 1.0 C-1st Js 65, Ilvs 92-21

REL 0078

JEWISH WOMEN

(Cross-listed as JS 78.) Images, experiences, and accomplishments of Jewish women in life, literature, and tradition from Biblical times to the present. Focus on individual women from various times and cultures; discussion of basic issues, present conditions, and prospects.

Sections

03489 REL 007801 J+ Ascher, Gloria 1.0 C-1st Js 78*

REL 0098

MUSIC&PRAYER JEWISH TRAD

(Cross-listed as MUS 54.) The role and function of music in Jewish worship and cultural identity. Focus on the Kabbalat Shabbat. Topics to include participation vs. performance in worship, music and historical authenticity in prayer, music and religious experience, and the invention and presentation of tradition. Liturgical music and dual culturalism in the American Jewish community.

Sections

03490 REL 009801 H+ Summit, Jeffrey 1.0 C-1st Js 192-04 & Mus 54

REL 0104

FEMINIST THEOLOGIES

Survey of feminism's impact on the religious commitments of women and on traditional religious institutions, beliefs, and practices. Feminist scholarship in the study of scriptural texts and other historical sources, the rise of women's rituals and alternative spiritualities, religious feminism in relation to other struggles for human dignity and liberation and how the inclusion of women's perspectives is influencing the craft of theology itself.

Sections

03491 REL 010401 H+ Hutaff, Margare 1.0

Religion

**REL 0106
CONTEM RELIGIOUS THOUGHT**

Intensive reading and discussion of selected issues in contemporary religious thought.

Please see departmental website for specific details.

Sections

04302 REL 010601 D+ Lemons, Elizabe 1.0

**REL 0122
ICONOCLASM&ICONOPHOBIA**

(Cross-listed as FAH 122.) The proscription of representational images in Jewish, Christian, and Islamic ideologies, and resulting iconic modes of expression (signs, symbols, architectural forms) at various times in the first millennium; the avoidance or removal of images, and motivations for and the effect of the art which it produces (Byzantine "iconoclasm"; Islamic avoidance; Protestantism; the French Revolution; the Jesse Helms syndrome). (Also offered as lower-level.)

Sections

04275 REL 012201 F+TR Hoffman, Eva R 1.0 C-listed With Fah 0122

**REL 0124
EARLY MEDIEVAL ART**

(Cross-listed as FAH 124) Production, function and reception of art in the early Middle Ages, especially in Western Europe from c. 300-1100 CE. Germanic, Frankish, Anglo-Saxon, Carolingian, Scandinavian and Norman jewelry, sculpture, textiles, architecture and manuscripts. Central themes include tradition and innovation; cultural and artistic hybridity; visualizing self and other.

Sections

04278 REL 012401 D+ Overbey, Karen 1.0 Undergrad Pre-req: Fah1 Or Permiss; C-list Fah 124

**REL 0125
MEDIEVAL ARCHITECTURE**

(Cross-listed as FAH 125) Social histories of medieval buildings from c.300 - c. 1400 CE., with particular attention to space, audience and experience. Course themes include: architecture and remembrance in the early Christian period; liturgy and ritual; gendered spaces in medieval monasteries; architects, masons and engineering; castles and the ideology of conquest; late medieval civic architecture; timber/stone construction; symbolism in the Gothic cathedral; and cross-cultural forms. Also offered as lower-level.

Prerequisites: Consent

Sections

04280 REL 012501 H+ Overbey, Karen 1.0 Undergrad Pre-req: Fah 1 Or Fah 8; C-list Fah 125

**REL 0126
ROOTS JEWISH IMAGINATION**

(Cross-listed as JS 126.) An introduction to Jewish myths, legends, mystical doctrines, and other subjects influential in the formation of Jewish imaginative literature. Topics include: the journey of the soul; the righteous sufferer; Jewish heresy; Jewish dream lore; the Messiah and the end of days; legends of the Golem; the dybbuk and exorcism; metamorphosis; hunger, food, fasting, and eating; the comic book and graphic novel; modern trauma and Jewish experience; Kabbalah, mysticism, and religious search; JuBus (Jewish Buddhists); modern Israel and her neighbors in contemporary writing. All texts read in English.

Sections

03493 REL 012601 ARR Rosenberg, Joel 1.0 C-1st Js 126*

**REL 0128
MEDIEVAL ART MEDITERRANE**

(Cross-listed as FAH 128.) Integrated study of the shared art and culture of the Mediterranean from late antiquity through medieval times (3rd – 13th centuries CE). Architecture, painting, mosaic and luxury objects will be considered with a focus on continuities and dynamic cultural intersections across religious and political boundaries in European, Islamic, and Byzantine realms. Topics include the early church, synagogue, and mosque; figural and non-figural imagery in Pagan, Jewish, Christian, and Islamic contexts; relationships between secular and sacred and between majority and minority cultures. Research papers are required. (Also offered as lower-level.)

Sections

04281 REL 012801 J+ Hoffman, Eva R 1.0 C-list Fah 128

**REL 0142
JEWISH EXP ON FILM**

(Cross-listed as JS 142.) Selected classic and contemporary films dealing with aspects of Jewish experience in America, Europe, and Israel, combined with reading on the cultural and philosophical problems illuminated by each film. One weekly session will be devoted to screenings, the other to discussion of the films and readings. In English.

Sections

03494 REL 014201 ARR Rosenberg, Joel 1.0 C-1st Js 142*

**REL 0144
TANTRA**

Advanced seminar examining the origins and practices of Asian tantra and its connections to indigenous medical and alchemical theories. Focus on theory and social context of two systems: Saivism and Buddhist Vajrayana.

Prerequisites: Permission of Instructor.

Sections

04303 REL 014401 10 Walser, Joseph 1.0

**REL 0152
ISLAM & MODERNITY**

The encounter between Islam and modernity and the diverse ways muslims have responded to the challenges posed by modernity. Discourses of various Muslim thinkers from the Middle East, Africa, the Indian subcontinent, southeast Asia, and Europe will be examined.

Sections

03495 REL 015201 I+ Garden, Kenneth 1.0 C-1st Ir

**REL 0154
MUHAMMAD AND QUR'AN**

Survey of the full range of Islamic scripture and sacred literature: the Qur'an, Hadith, Sira (Biography of Muhammad), and Tales of the Prophets. The objective is an understanding of these genres individually, their relationship to one another, as well as their relationship to the scriptures of other Abrahamic religions.

Sections

04304 REL 015401 E+MW Garden, Kenneth 1.0

**REL 0191
SPECIAL TOPICS**

Please see departmental website for detailed information.

Sections

INDEPENDENT STUDY

04396 REL 019101 ARR Staff 1.0 Permission Of Instructor; Reg. In Eaton 302

Religion

**REL 0192
SPECIAL TOPICS**

Directed reading and study in selected areas of religious thought and practice. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of the department.

Sections

RELIGION, RACE & NATION

04305	REL 019227	2	Curtis, Heather	1.0	Dual Instructors Curtis+hicks; C-1st Amer 180-02
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**REL 0196
RELIGIONS & IR**

An exploration of religion as both a transnational and subnational force in international relations, focused on five of the world's major faith groups/spiritual paths: Hinduism, Buddhism, Judaism, Christianity, and Islam. How a region's religious traditions and practices play, or should play, a central role understanding a region.

Sections

03503	REL 019601	10	O'leary, David	1.0	C-list Ir
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**REL 0199
SENIOR HONORS THESIS**

Honors Thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03505	REL 019901	ARR	Curtis, Heather	1.0	Permission Of Instructor; Reg. In Eaton 302
03506	REL 019902	ARR	Curtis, Heather	1.0	Permission Of Instructor; Reg. In Eaton 302
03507	REL 019903	ARR	Hatcher, Brian	1.0	Permission Of Instructor; Reg. In Eaton 302
03508	REL 019904	ARR	Hatcher, Brian	1.0	Permission Of Instructor; Reg. In Eaton 302
03509	REL 019905	ARR	Hutaff, Margare	1.0	Permission Of Instructor; Reg. In Eaton 302
04306	REL 019906	ARR	Hutaff, Margare	1.0	Permission Of Instructor; Reg. In Eaton 302
04308	REL 019907	ARR	Lemons, Elizabe	1.0	Permission Of Instructor; Reg. In Eaton 302
04309	REL 019908	ARR	Lemons, Elizabe	1.0	Permission Of Instructor; Reg. In Eaton 302
04310	REL 019909	ARR	O'leary, David	1.0	Permission Of Instructor; Reg. In Eaton 302
04312	REL 019910	ARR	O'leary, David	1.0	Permission Of Instructor; Reg. In Eaton 302
04313	REL 019911	ARR	Garden, Kenneth	1.0	Permission Of Instructor; Reg. In Eaton 302
04314	REL 019912	ARR	Garden, Kenneth	1.0	Permission Of Instructor; Reg. In Eaton 302
04316	REL 019913	ARR	Walser, Joseph	1.0	Permission Of Instructor; Reg. In Eaton 302
04317	REL 019914	ARR	Walser, Joseph	1.0	Permission Of Instructor; Reg. In Eaton 302

Russian

**RUS 0002
ELEMENTARY RUSSIAN**

Basic conversation and communication skills. Fundamentals of pronunciation and grammar. One additional hour.

Sections

03512	RUS 0002A	C	Petrov, Nancy	1.0	Preq: Rus 1
03513	RUS 0002B	F	Marquette, Scar	1.0	Preq: Rus 1

**RUS 0004
INTERMEDIATE RUSSIAN**

Completion of the formal study of grammar. Emphasis on conversational and compositional skills.

Prerequisites: RUS 2 or equivalent.

Sections

03515	RUS 0004A	ARR	Petrov, Nancy	1.0	Meets Tr1340-2:45, F12:00-12:50, Preq: Rus 3
04109	RUS 0004B	ARR	Staff	1.0	Meets Mw 3:00-4:15, F1:30-2:20, Preq: Rus 3

**RUS 0022
COMPOSITION/CONVERSATION**

Selected grammar topics. Advanced oral and written drill. Compositions, reports, and discussions based on readings of journalistic and literary prose and film viewings.

Prerequisites: RUS 4 or equivalent.

Sections

03516	RUS 002201	D+	Johnson, Vida T	1.0	Preq: Rus 21; + 1 Arr Hour
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**RUS 0066
TOLSTOY**

Tolstoy's development as literary master and spiritual force; his life and its counterpoint with the fictional worlds he created. The philosophy of history in War and Peace; morality, social conventions, and sexual roles in Anna Karenina and other works. Tolstoy's spiritual crisis, turn to populism, and the concept of nonresistance to violence. Readings include Childhood, The Sevastopol Sketches, The Cossacks, and Khadzhi-Murat. Alternate years.

Sections

04110	RUS 006601	J+	Marquette, Scar	1.0	In English
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**RUS 0072
CONTEMP RUSSIAN CULTURE**

Exploration of Russian culture through literature, film, the media, and the arts from the era of "stagnation" to glasnost, perestroika, and the post-Soviet period. The destruction and reconstruction of cultural and political canons and myths: the Stalinist legacy and reevaluation of Soviet history; the revival of religion and nationalism; social dislocation: the problems of youth, the generation gap, and women's issues; the breaking of taboos and the dark side of freedom--violence, crime, pornography, and neofascism; the liberalization and commercialization of art. All readings and films are in English.

Sections

04111	RUS 007201	G+	Carleton, Grego	1.0	In English
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**RUS 0092
SPECIAL TOPICS**

Courses on selected themes and authors given in English.

Please see departmental website for specific details.

Sections

WARRIOR NATIONS:U.S.&RUS

03518	RUS 009201	E+MW	Carleton, Grego	1.0	In English; C-list llvs 9203
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FILM&NATION:RUS&CEN.ASIA

03519	RUS 009202	ARR	Johnson, Vida T	1.0	Meets Tr4:30-7:00; In Eng.; C-1st llvs9210, Civ9101
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**RUS 0094
DIRECTED STUDY: LANG/LIT**

Guided independent study of an approved topic. Variable credit.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03521	RUS 009401		Carleton, Grego	0.0-3.0	Permission Of Instructor
03522	RUS 009402		Gassel, Tatyana	0.0-3.0	Permission Of Instructor
03523	RUS 009404		Petrov, Nancy	0.0-3.0	Permission Of Instructor

**RUS 0122
ADVANCED RUSSIAN**

Classes conducted entirely in Russian, advanced concepts in grammar and stylistics, intensive reading, and discussions.

Prerequisites: RUS 22.

Sections

03524	RUS 012201	ARR	Gassel, Tatyana	1.0	Meets Mw 4:30-5:45, F10:30-11:45, Preq:rus 121
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**RUS 0192
SPECIAL TOPICS**

Study of selected authors, themes, genres, or literary movements given in Russian. Seminar or lecture/discussion format.

Please see departmental website for specific details.

Sections

MEN&WOMEN IN TODAY'S RUS

04112	RUS 019201	M+	Gassel, Tatyana	1.0	Preq: Russ 122 Or Placement
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**RUS 0194
ADVANCED DIRECTED STUDY**

Guided independent study of an approved topic conducted in Russian. Variable credit.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03527	RUS 019401		Gassel, Tatyana	1.0	Permission Of Instructor
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**RUS 0199
SENIOR HONORS THESIS**

See Thesis Honors Program for details.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03530	RUS 019901	ARR		0.0-3.0	Permission Of Instructor
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Sociology

SOC 0001 INTRO TO SOCIOLOGY

Basic concepts for the systematic study of human interaction and social structure. Social groups, categories, and modern complex social systems. Deviance, social change, and system maintenance. Values, norms, socialization, roles, stratification, and institutions. Sociological analysis of selected areas of social life, such as the family, religion, large-scale organizations, minority relations, mass communications, and crime.

Sections

03536 SOC 000101 I+ Marrow, Helen B 1.0

SOC 0020 FAMILY & INTIMATE RELATN

Understanding the contemporary American family, defined broadly as those with whom one shares resources and values and to whom one has a long-term commitment. Topics include historical and cross-cultural variations, dating and romantic love, cohabitation and marriage, parenting, family roles of men and women, divorce and family stability, and the future of the family.

Sections

03537 SOC 002001 K+ Aymer, Paula 1.0

SOC 0070 IMMIGRATION

The United States as a lens for understanding the movement of people across nation-state boundaries and their settlement in various receiving societies. Why people migrate across international borders; ability of the nation-state to control migration flows; assimilation and incorporation of foreign "outsiders" into American social life; ways that migrants build and sustain lives across international borders; and challenges to two traditional types of membership: race and ethnicity, and citizenship and national belonging.

Sections

04133 SOC 007001 E+MW Marrow, Helen B 1.0

SOC 0099 INTERNSHIP

Opportunity for students to apply a body of sociological knowledge in a practical setting, including community-based, profit or nonprofit, governmental, or other sites. Individual faculty sponsor internships in their areas of expertise. Students must have an on-site supervisor, and complete a piece of meaningful scholarly work related to the internship area.

Please see departmental website for specific details.

Prerequisites: SOC 1 or 10, plus one additional course in sociology related to internship area. To be arranged by individual members of the department.

Sections

03540 SOC 009901 ARR Staff 1.0 Permission Of Instructor

SOC 0101 QUANT RESEARCH METHODS

Data analysis and statistics for the social sciences. Sampling, describing data, and logic of inference, especially with surveys. Introduction to microcomputer tools for analysis and graphic display. Answering research questions through individual or group projects.

Prerequisites: One introductory social science course.

Sections

03541 SOC 010101 D+ Ennis, James 1.0 Prereq: 1 Intro Social Science Course

SOC 0102 QUALITATIVE RES METHODS

Epistemological foundations of qualitative methods and related ethical issues. Development and carrying out of a research project, including formulation of a researchable sociological question, review of sociological literature, identification of a research site, conduct of systematic observations, taking and coding of field notes, qualitative interviews, analysis of data, drawing of conclusions, and development of a sociological argument.

Prerequisites: At least one Sociology course or permission of instructor.

Sections

03542 SOC 010201 6 Sobieraj, Sarah 1.0 2 Sociology Courses

SOC 0113 URBAN SOCIOLOGY

Sociology Cities as global phenomena, studied with classic texts on U.S. urban social life and transnational comparisons. Analysis of economic globalization, redevelopment, and landscape formation in cities. Case studies of local politics and planning, socioeconomic inequality, urban cultural change, and citizenship struggles.

Prerequisites: SOC 1 or 10 or consent.

Sections

04134 SOC 011301 E+MW Centner, Ryan 1.0 Soc 1 Or 10 Or Consent Of Instructor

SOC 0130 WEALTH,POVERTY&INEQUALIT

(Cross-listed as PJS 130.) Socioeconomic class in U.S. with some global comparison. Intersections with race and gender. Social analysis of distribution of economic, social, political resources. Alternative visions and strategies for change. Opportunity for field placements in local community organizations.

Prerequisites: One sociology or comparable course, or permission of instructor.

Sections

03547 SOC 013001 G+ Ostrander, Susa 1.0 C-1st Pjs 130; 1 Sociology Course Or Permission

SOC 0141 MEDICAL SOCIOLOGY

Sociopolitical context within which health, illness, and medical care are defined. Training and role delineation of health workers. Benefits and liabilities of becoming a patient. Social control implications of increasing medical intervention. Analysis of medical transactions in the examining room. Economic and organizational structure of the health-care delivery system.

Prerequisites: Sophomore standing.

Sections

03549 SOC 014101 M+ Staff 1.0 Soph Standing

SOC 0149 SELECTED TOPICS IN SOC

Social organization of selected institutions and/or analysis of current issues.

Prerequisites: SOC 1 or 10 or sophomore standing.

Sections

SOCIOLOGY OF TASTE

03551 SOC 014904 J+ Ennis, James 1.0 Prereq: 1 Social Science Course

CONSUMERS & CONSUMERISM

04135 SOC 014905 1 Sobieraj, Sarah 1.0

SOCIOLOGY OF DEVIANCE

04136 SOC 014906 H+ Vecitis, Kather 1.0

SEXUALITY AND SOCIETY

04137 SOC 014907 L+ Staff 1.0

Sociology

**SOC 0180
CITIES OF GLOBAL SOUTH**

Critical assessment of traditional approaches to the study of cities outside the wealthiest countries. New sociological frameworks to analyze urbanization and urbanism in Global South sites such as Mexico, Argentina, Brazil, South Africa, Egypt, India, and China. Impact of politics, international finance, migration, gender, and the environment on new urban conditions.

Prerequisites: SOC 103 or 113 or consent

Sections

04138 SOC 018001 7 Centner, Ryan 1.0

**SOC 0181
SEM:WAR/PEACE/STATE/SOC**

Advanced exploration of war and peace as social processes. Research into specific areas of student interest including role of gender, public opinion, Pentagon politics, peace movements, civil military relations, changing nature of war, nonviolent alternatives, media coverage, debate over the meaning of security, reconciliation and other forms of recovery from organized violence. Comparisons between the U.S. and other countries. Presumes prior introduction to relevant topics.

Prerequisites: SOC/PJS 120 or permission of instructor.

Sections

04139 SOC 018101 10 Joseph, Paul 1.0 Soc/pjs 120 Or Permission

**SOC 0186
SEM:INTR'NATL HEALTH POL**

(Cross-listed as CH 186.) Health-related dilemmas faced by nations in the postwar period. Strategies developed to deal with infectious diseases and comparison with those used to combat mortality and morbidity from chronic illnesses. Case studies may include such topics as heart disease, infant mortality, hazardous waste, and AIDS. Also analyzes the health-care system problems of access, quality, and cost. Focus on how resource allocation, political institutions, and cultural myths about health and illnesses affect policy construction.

Sections

03553 SOC 018601 ARR Taylor, Rosemar 1.0 Seniors-2 Socsci Crs.c-1st Ch186-reg@ch p-t3-5:30

**SOC 0187
IMMIGRANT CHILDREN**

Seminar on parents in host countries as labor migrants, migrant workers, refugees, sojourners and settlers accompanied or joined by children. Children born in host countries to immigrant parents. Incorporation of documented and undocumented immigrants and acculturation of immigrant children into receiving societies. Migration theories, policy and law. Racial and ethnic identity formation. Immigrant children and health, education, and language issues. Fieldwork and projects.

Prerequisites: Junior standing.

Sections

03554 SOC 018701 8 Aymer, Paula 1.0 Junior Standing

**SOC 0188
SEMINAR IN CURRENT SOC**

(See specific course description in departmental booklet each semester.) Contemporary problems in selected areas of sociology. Topics will be determined by the instructor in consultation with student members of the seminar. Emphasis on group discussion and student reports.

Please see departmental website for specific details.

Prerequisites: Junior standing, at least two previous courses in sociology, and permission of instructor.

Sections

AIDS

04600 SOC 018802 5 Taylor, Rosemar 1.0 Soc. Origns, Global Consequences;j r/sr Or Perm

**SOC 0198
DIR RESEARCH SOCIOLOGY**

Open to properly qualified advanced students through consultation with a member of the faculty. Credit as arranged.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03564	SOC 019801	ARR	Ostrander, Susa	1.0	Permission Of Instructor
03565	SOC 019802	ARR	Ennis, James	1.0	Permission Of Instructor
03566	SOC 019803	ARR	Sobieraj, Sarah	1.0	Permission Of Instructor
03567	SOC 019804	ARR	Sobieraj, Sarah	1.0	Permission Of Instructor
03568	SOC 019805	ARR	Taylor, Rosemar	1.0	Permission Of Instructor

**SOC 0199
SENIOR HONORS THESIS**

Senior Honors Thesis.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03569	SOC 019901	ARR	Sobieraj, Sarah	1.0	Permission Of Instructor
03570	SOC 019902	ARR	Ostrander, Susa	1.0	Permission Of Instructor

Spanish

**SPN 0001
ELEM SPANISH I**

Fundamentals of the Spanish language with stress on oral skills, pronunciation, and listening comprehension. Language laboratory. Conducted in Spanish.

Sections

03572	SPN 0001A	A	Oppenheim, Adel	1.0
03573	SPN 0001B	D	Oppenheim, Adel	1.0
03574	SPN 0001C	J	Kelly, Nancy	1.0

**SPN 0002
ELEM SPANISH II**

Fundamentals of the Spanish language with stress on oral skills, pronunciation, and listening comprehension. Language laboratory. Conducted in Spanish.

Sections

03575	SPN 0002A	C	Haltom, Pam	1.0	Must Also Register For Recitation
03576	SPN 0002B	E	De Laire Mulgre	1.0	Must Also Register For Recitation
03577	SPN 0002C	E	Paolini, Elena	1.0	Must Also Register For Recitation
03578	SPN 0002D	F	Haltom, Pam	1.0	Must Also Register For Recitation
03579	SPN 0002E	G	Belansky, Aida	1.0	Must Also Register For Recitation
03580	SPN 0002F	I	Belansky, Aida	1.0	Must Also Register For Recitation
03581	SPN 0002G	J	Tano, Cheryl An	1.0	Must Also Register For Recitation
03582	SPN 0002H	N	Tano, Cheryl An	1.0	Must Also Register For Recitation
03583	SPN 0002RA	ARR	Rosso-o'laughli	0.0	Mon 12:00-12:40 Pm
03584	SPN 0002RB	ARR	Rosso-o'laughli	0.0	Mon 12:00-12:40 Pm
03585	SPN 0002RC	ARR	Rosso-o'laughli	0.0	Mon 12:45-1:25 Pm
03586	SPN 0002RD	ARR	Rosso-o'laughli	0.0	Mon 6:00-6:40 Pm
03587	SPN 0002RE	ARR	Rosso-o'laughli	0.0	Mon 6:00-6:40 Pm
03588	SPN 0002RF	ARR	Rosso-o'laughli	0.0	Tues 5:15-5:55 Pm
03589	SPN 0002RG	ARR	Rosso-o'laughli	0.0	Tues 6:00-6:40 Pm
03590	SPN 0002RH	ARR	Rosso-o'laughli	0.0	Wed 12:00-12:40 Pm
03591	SPN 0002RJ	ARR	Rosso-o'laughli	0.0	Wed 12:00-12:40 Pm
03592	SPN 0002RK	ARR	Rosso-o'laughli	0.0	Wed 12:45-1:25 Pm
03593	SPN 0002RL	ARR	Rosso-o'laughli	0.0	Wed 6:00-6:40 Pm

**SPN 0003
INTERMED SPANISH I**

Review of grammar with emphasis on speaking, writing, and oral comprehension. Discussion of texts on contemporary Spanish and Latin American civilization. Written compositions; language laboratory. Conducted in Spanish.

Prerequisites: SPN 2 or equivalent.

Sections

03594	SPN 0003A	C	Older, Dora V.	1.0	Sp 2 Or Consent
03595	SPN 0003B	D	Wegel-hajj, Ann	1.0	Sp 2 Or Consent
03596	SPN 0003C	E	Older, Dora V.	1.0	Sp 2 Or Consent
03597	SPN 0003D	F	Wegel-hajj, Ann	1.0	Sp 2 Or Consent
03598	SPN 0003E	G	Manso, Ildefons	1.0	Sp 2 Or Consent
03599	SPN 0003F	N	Mederos, Raysa	1.0	Sp 2 Or Consent

**SPN 0004
INTERMED SPANISH II**

Rapid review of fundamentals of the language. Oral and written exercises; regular compositions; practice in conversation. Readings in contemporary literature and journalism from Spain and Latin America. Language laboratory. Conducted in Spanish.

Prerequisites: SPN 3 or equivalent.

Sections

03600	SPN 0004A	A	Risse, Katherin	1.0	Must Also Register For Recitation
03601	SPN 0004B	C	De Laire Mulgre	1.0	Must Also Register For Recitation
03602	SPN 0004C	D	Risse, Katherin	1.0	Must Also Register For Recitation
03603	SPN 0004D	E	Dietrick, Charl	1.0	Must Also Register For Recitation
03604	SPN 0004E	F	De Laire Mulgre	1.0	Must Also Register For Recitation
03605	SPN 0004F	G	Dietrick, Charl	1.0	Must Also Register For Recitation
03606	SPN 0004G	H	Smith, Patricia	1.0	Must Also Register For Recitation
03608	SPN 0004RA	ARR	Dietrick, Charl	0.0	Mon 12:00-12:40 Pm
03609	SPN 0004RB	ARR	Dietrick, Charl	0.0	Mon 12:00-12:40 Pm
03610	SPN 0004RC	ARR	Dietrick, Charl	0.0	Mon 12:45-1:25 Pm
03611	SPN 0004RD	ARR	Dietrick, Charl	0.0	Mon 12:45-1:25 Pm
03612	SPN 0004RE	ARR	Dietrick, Charl	0.0	Mon 6:00-6:40 Pm
03613	SPN 0004RF	ARR	Dietrick, Charl	0.0	Tues 5:15-5:55 Pm
03614	SPN 0004RG	ARR	Dietrick, Charl	0.0	Tue 6:00-6:40 Pm
03615	SPN 0004RH	ARR	Dietrick, Charl	0.0	Wed 12:00-12:40 Pm
03616	SPN 0004RJ	ARR	Dietrick, Charl	0.0	Wed 12:00-12:40 Pm
03617	SPN 0004RK	ARR	Dietrick, Charl	0.0	Wed 12:45-1:25 Pm

**SPN 0021
COMP/CONV I**

Advanced written and oral grammar review. Discussion of contemporary Spanish and Latin American civilization, including plays and short stories. Oral presentations and written compositions. Language laboratory. Conducted in Spanish.

Prerequisites: SPN 4 or equivalent.

Sections

03618	SPN 0021A	A	Cantu, Anne	1.0	Must Also Register For Recitation
03619	SPN 0021B	C	Watson, James M	1.0	Must Also Register For Recitation
03620	SPN 0021C	D	Watson, James M	1.0	Must Also Register For Recitation
03621	SPN 0021D	F	Levy-konesky, N	1.0	Must Also Register For Recitation
03622	SPN 0021E	F	Berte, Maria Ju	1.0	Must Also Register For Recitation
03623	SPN 0021F	H	Berte, Maria Ju	1.0	Must Also Register For Recitation
03624	SPN 0021G	H	Levy-konesky, N	1.0	Must Also Register For Recitation
03625	SPN 0021H	I	Manso, Ildefons	1.0	Must Also Register For Recitation
03627	SPN 0021RA	ARR	Davis, Maria-co	0.0	Mon 12:00-12:40 Pm

**Course Listings
Spring 2012**

Spanish

03628	SPN 0021RB	ARR	Davis, Maria-co	0.0	Mon 12:45-1:25 Pm
03629	SPN 0021RC	ARR	Davis, Maria-co	0.0	Mon 12:45-1:25 Pm
03630	SPN 0021RD	ARR	Davis, Maria-co	0.0	Mon 6:00-6:40 Pm
03631	SPN 0021RE	ARR	Davis, Maria-co	0.0	Tues 6:00-6:40 Pm
03632	SPN 0021RF	ARR	Davis, Maria-co	0.0	Wed 12:00-12:40 Pm
03633	SPN 0021RG	ARR	Davis, Maria-co	0.0	Wed 12:45-1:25 Pm
03634	SPN 0021RH	ARR	Davis, Maria-co	0.0	Wed 12:45-1:25 Pm
03635	SPN 0021RJ	ARR	Davis, Maria-co	0.0	Wed 6:00-6:40 Pm
03636	SPN 0021RK	ARR	Davis, Maria-co	0.0	Wed 6:00-6:40 Pm

**SPN 0022
COMP/CONV II**

Continued advanced review of language structures; written compositions and oral presentations. Increasing emphasis on discussion of literature and journalism from Spain and Latin America; study of contemporary film. Language laboratory. Conducted in Spanish.

Prerequisites: SPN 21 or equivalent.

Sections

03638	SPN 0022A	E+MW	Cantu, Anne	1.0	Must Also Register For Recitation
03639	SPN 0022B	F+TR	Davis, Maria-co	1.0	Must Also Register For Recitation
03640	SPN 0022C	G+	Schulze, Cristi	1.0	Must Also Register For Recitation
03641	SPN 0022D	G+	Weitzman, Raque	1.0	Must Also Register For Recitation
03642	SPN 0022E	H+	Marcelin, Teres	1.0	Must Also Register For Recitation
03643	SPN 0022F	I+	Weitzman, Raque	1.0	Must Also Register For Recitation
04421	SPN 0022RA	ARR	Davis, Maria-co	0.0	Mon 12:00-12:40 Pm
04424	SPN 0022RB	ARR	Davis, Maria-co	0.0	Mon 12:45-1:25 Pm
04425	SPN 0022RC	ARR	Davis, Maria-co	0.0	Mon 6:00-6:40 Pm
04427	SPN 0022RD	ARR	Davis, Maria-co	0.0	Mon 6:00-6:40 Pm
04429	SPN 0022RE	ARR	Davis, Maria-co	0.0	Tues 5:15-5:55 Pm
04430	SPN 0022RF	ARR	Davis, Maria-co	0.0	Tues 5:15-5:55 Pm
04432	SPN 0022RG	ARR	Davis, Maria-co	0.0	Tues 5:15-5:55 Pm
04434	SPN 0022RH	ARR	Davis, Maria-co	0.0	Tues 6:00-6:40 Pm
04435	SPN 0022RJ	ARR	Davis, Maria-co	0.0	Tues 6:00-6:40 Pm
04437	SPN 0022RK	ARR	Davis, Maria-co	0.0	Tues 6:00-6:40 Pm
04439	SPN 0022RL	ARR	Davis, Maria-co	0.0	Wed 12:00-12:40 Pm
04440	SPN 0022RM	ARR	Davis, Maria-co	0.0	Wed 12:45-1:25 Pm
04442	SPN 0022RN	ARR	Davis, Maria-co	0.0	Wed 12:45-1:25 Pm
04443	SPN 0022RO	ARR	Davis, Maria-co	0.0	Wed 6:00-6:40 Pm
04444	SPN 0022RP	ARR	Davis, Maria-co	0.0	Wed 6:00-6:40 Pm

CINE DE L AM Y ESPANA

03644	SPN 0022XA	D+	Davis, Maria-co	1.0	Must Also Register For Recitation
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CIUDADES DE ENSUENO

03645	SPN 0022XB	F+TR	Marcelin, Teres	1.0	Must Also Register For Recitation
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TEATRO BREVE DEL S 20

03646	SPN 0022XC	H+	Haltom, Pam	1.0	Must Also Register For Recitation
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LA GUERRA CIVIL ESPANOLA

03647	SPN 0022XD	J+	Smith, Patricia	1.0	Must Also Register For Recitation
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ESPIRITU DE PUERTO

03648	SPN 0022XE	L+	Levy-konesky, N	1.0	Must Also Register For Recitation
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SPN 0029

LATINO WRIT EXPERIENCE

(Cross-listed as LAS 29). Creative writing course in prose fiction, taught in English. Writing may be in English and/or Spanish. Cross-listed with Latino Studies.

Sections

04445	SPN 0029A	L+	Alonso, Juan M.	1.0	Taught In English
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SPN 0032

MAIN CURRENT-SPN LIT II

Significant currents of Spanish literature from the eighteenth through the twentieth century. Selected works of representative authors read and discussed. Lectures and reports. Conducted in Spanish.

Prerequisites: SPN 21 or equivalent. Not for seniors or for students returning from programs abroad.

Sections

03649	SPN 0032A	D	Howe, Elizabeth	1.0	Spn 21 Or Consent
03650	SPN 0032B	H+	Marquez-raffett	1.0	Spn 21 Or Consent
03651	SPN 0032C	J+	Simpson, Dana	1.0	Spn 21 Or Consent

SPN 0035

SURVEY LATIN AMER LIT II

Latin American literature from the nineteenth-century Modernist poetry and prose through the groundbreaking trends of the twentieth century, such as Regionalist and Indigenist narrative, Magical Realism, and the "boom" in the Latin American letters of the sixties and seventies. Writers include Rubén Darío, Pablo Neruda, Gabriel García Márquez, and Jorge Luis Borges. Historical context as well as literary analysis. Conducted in Spanish.

Prerequisites: SPN 21 or equivalent. Not for seniors or for students returning from programs abroad.

Sections

03652	SPN 0035A	E+MW	Pollakowski, Ka	1.0	Spn 21 Or Consent
03653	SPN 0035B	F+TR	Millay, Amy	1.0	Spn 21 Or Consent
03654	SPN 0035C	G+	Gerassi-navarro	1.0	Spn 21 Or Consent
03655	SPN 0035D	I+	Pollakowski, Ka	1.0	Spn 21 Or Consent
03656	SPN 0035E	L+	Simpson, Dana	1.0	Spn 21 Or Consent

SPN 0092

SPECIAL TOPICS

(Conducted in English.) Courses on various topics in Spanish peninsular or Latin American literature or civilization.

Please see departmental website for specific details.

Sections

03657	SPN 009201	F+TR	Ascher, Gloria	1.0	C-1st Js 91-01
LADINO LANG & CULTURE					
04544	SPN 0092A	F+TR	Ascher, Gloria	1.0	Clist Js 0091

Spanish

**SPN 0094
INDEPENDENT STUDY**

(Conducted in English.) Guided individual study of an approved topic in Spanish peninsular or Latin American literature or civilization. Variable credit.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03658	SPN 009401	ARR	Alonso, Juan M.	1.0	Permission Of Instructor
03659	SPN 009402	ARR	Davis, Maria-co	1.0	Permission Of Instructor
03660	SPN 009403	ARR	Dietrick, Charl	1.0	Permission Of Instructor
03661	SPN 009404	ARR	Gerassi-navarro	1.0	Permission Of Instructor
03662	SPN 009405	ARR	Howe, Elizabeth	1.0	Permission Of Instructor
03663	SPN 009406	ARR	Mazzotti, Jose	1.0	Permission Of Instructor
03664	SPN 009407	ARR	Pollakowski, Ka	1.0	Permission Of Instructor
03665	SPN 009408	ARR	Rosso-o'laughli	1.0	Permission Of Instructor
03666	SPN 009409	ARR	Ruiz, Pablo M.	1.0	Permission Of Instructor

**SPN 0103
LATIN AMER NOVEL**

Novels by major contemporary writers such as Cortázar, Carpentier, Fuentes, Donoso, García Márquez, Rulfo, Vargas Llosa. Problems of Latin American culture as seen in these works.

Prerequisites: SPN 31 or 34, and 32 or 35, or permission of instructor.

Sections

04614	SPN 0103A	D+	Millay, Amy	1.0	Spn 31 Or 34 And 32 Or 35 Or Consent
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**SPN 0121
ADV COMP/CONVERSATION I**

Continued practice in the speaking and writing of Spanish. Study of syntax and stylistics, oral and written reports. Not for native speakers or for those who have studied in Spanish-speaking countries.

Prerequisites: SPN 21 and 22, or permission of instructor.

Sections

03668	SPN 0121A	I+	Schulze, Cristi	1.0	Spn 21 And 22 Or Consent
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**SPN 0122
ADV COMP&CONVERSATION II**

A continuation of SPN 121. Not for native speakers or for those who have studied in Spanish-speaking countries.

Prerequisites: SPN 121 or permission of instructor.

Sections

03669	SPN 0122A	H+	Simpson, Dana	1.0	Spn 121 Or Consent
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**SPN 0124
SPN-ENG TRANSLATION WKSH**

Techniques to mediate the contrasting communicative strategies of Spanish and English, emphasizing lexical differences and options. Methodical use of mono- and bilingual dictionaries and other reference materials, including web-based tools, to explore the complexity of the lexicon and the background knowledge necessary to a closer reading of Spanish. Translation assignments in literature, humanistic social sciences, and creative journalism exemplified by early Gabriel García Márquez.

Prerequisites: SPN 22, 23, or 24 or consent.

Sections

03671	SPN 0124A	K+	Klatt, Andrew	1.0	Spn 22 Or 23 Or 24 Or Consent
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**SPN 0142
DON QUIJOTE**

A careful reading of both books of Don Quijote (1605 and 1615) as expressions of the Renaissance and Baroque visions of man and his destiny.

Prerequisites: SPN 31 or 34, and 32 or 35, or permission of instructor.

Sections

04615	SPN 0142A	H+	Howe, Elizabeth	1.0	Spn 31 Or 34 And 32 Or 35 Or Consent
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**SPN 0150
LATIN AMER CIVILIZATION**

Examination of the main patterns shaping Latin American civilization and culture at the start of the new millennium. Particular emphasis placed on issues of ethnicity and hegemony as definers not only of all major historical processes of the Latin American past, but also of the main challenges of its present and future. Readings encompass both canonical works as well as cultural production generated from the margins.

Prerequisites: SPN 31 or 34, and 32 or 35, or permission of instructor. Students may not receive credit for both SPN 50 and 150

Sections

03673	SPN 0150A	P+	Mazzotti, Jose	1.0	Spn 31 & 34 Or 32 & 35 Or Consent
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**SPN 0192
SPECIAL TOPICS**

(Conducted in Spanish.) Courses on various topics in Spanish peninsular or Latin American literature or civilization. Topics may include Don Juan; Latin American women writers; testimonial literature of Latin America; and others.

Please see departmental website for specific details.

Prerequisites: SPN 31 or 34, and 32 or 35, or permission of instructor.

Sections

LAT AMERICAN CINEMA

03674	SPN 0192A	E+MW	Gerassi-navarro	1.0	Spn 31 Or 34 And 32 Or 35 Or Consent
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20C SPANISH THEATER

03675	SPN 0192B	F+TR	Pollakowski, Ka	1.0	Spn 31 Or 34 And 32 Or 35 Or Consent
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ENCHANTMENT & FANTASY

03676	SPN 0192C	J+	Marquez-raffett	1.0	Spn 31 Or 34 And 32 Or 35 Or Consent
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LAT AM CINEMA RECITATION

04446	SPN 0192RA	11	Gerassi-navarro	0.0	Optional Recitation For Spn 192-a
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**SPN 0194
INDEPENDENT STUDY**

Guided individual study of an approved topic in Spanish peninsular or Latin American literature or civilization. Variable credit. No more than one credit in Independent Study may be counted toward the major.

Please see departmental website for specific details.

Prerequisites: One 100-level literature course and permission of instructor.

Sections

03678	SPN 019401	ARR	Alonso, Juan M.	1.0	One 100-level Lit Course And Consent
03679	SPN 019402	ARR	Davis, Maria-co	1.0	One 100-level Lit Course And Consent
03680	SPN 019403	ARR	Dietrick, Charl	1.0	One 100-level Lit Course And Consent
03681	SPN 019404	ARR	Gerassi-navarro	1.0	One 100-level Lit Course And Consent

Spanish

03682	SPN 019405	ARR	Howe, Elizabeth	1.0	One 100-level Lit Course And Consent
03683	SPN 019406	ARR	Mazzotti, Jose	1.0	One 100-level Lit Course And Consent
03684	SPN 019407	ARR	Pollakowski, Ka	1.0	One 100-level Lit Course And Consent
03685	SPN 019408	ARR	Rosso-o'laughli	1.0	One 100-level Lit Course And Consent
03686	SPN 019409	ARR	Ruiz, Pablo M.	1.0	One 100-level Lit Course And Consent

SPN 0199

HONORS THESIS

Open to qualified students. Variable credit.

Please see departmental website for specific details.

Prerequisites: SPN 31 or 34, and 32 or 35, and permission of instructor.

Sections

03702	SPN 0199BT	ARR	Staff	1.0	Spn 31 Or 34 And 32 Or 35 And Consent
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Studio Art - Medford Campus

FAM 0003

ART AS PROCESS

This transformative workshop is for individuals who want the challenge of investigating new and unique ways of making art. Art as Process is an intensive class that focuses on experimentation and the creative process rather than a pre-imagined or calculated end product. Each week a different project will be introduced, worked on, and completed. We will explore painting, drawing, sculpture, and other media with an eye towards combining materials in unusual ways. Abstraction, Realism, and Conceptual approaches will be discussed and explored through a variety of hands-on projects. Open to all, from absolute beginners to advanced artists, Art as Process is particularly useful for those interested in exploring and developing their own creative abilities, assembling a portfolio for art school, or exploring the idea of a professional art career. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01950 FAM 0003B ARR Moore, Amanda 0.5 Friday 9:30am - 12:30pm

FAM 0005

CALLIGRAPHY

This course introduces both a way of seeing line, form and space and the basics of design through pen-drawn letters. Concentrating on the basic Italic letterforms and touching on the Square Roman capitals, emphasis will be on developing rhythm and freedom of line, as well as layout and design. Several projects exploring the expressive possibilities of contemporary calligraphy will be completed during the semester.

Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01951 FAM 0005A ARR Broman-wright, 1.0 Tues & Thurs 7:00pm - 10:00pm

FAM 0006

CALLIGRAPHY II

This course is a continuation of Calligraphy (FAM 0005). The student will acquire a working knowledge of other existing scripts, based on historic examples, and will incorporate each one in a creative design using color and decoration. As a culmination of the semester's work, students will design, write and bind a manuscript. Continued courses may be taken for credit for an unlimited number of times.

Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01952 FAM 0006A ARR Broman-wright, 1.0 Tue & Thu 7-10 Pm

FAM 0020

DESIGN FOUNDATION

The design process is the seeking of visual solutions. This course provides a working knowledge of the elements of design and the tools that can strengthen your work and give form to ideas. Using line, shape, form, texture, value, color and space, you will learn the principal guidelines for building composition. You will be encouraged to make choices, to question the known and the unknown, and to expand your creative problem-solving abilities. Media such as pen and ink, graphite, colored pencil, paint, collage and relief will be used to develop skills and knowledge that have direct application to all art disciplines. The prerequisite is an interest in what you want to say, and how you want to say it. This is an excellent program for anyone working in, or just starting out in, the visual arts.

Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01953 FAM 00201 ARR Breiner, Joanne 1.0 Mon & Wed 1:30pm - 4:30pm

FAM 0021

DESIGN:INTER TO ADV

This course is a continuation of Design: Foundation (FAM 0020) and is intended for the serious student who wants to develop 2-D and 3-D design skills. Elements of design encountered in Design: Foundation will be re-examined to see how they can be used in new situations, including commercial applications. The use of a variety of media and participation in critiques is encouraged. Continued courses may be taken for credit an unlimited number of times.

Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01954 FAM 002101 ARR Breiner, Joanne 1.0 Mon & Wed 1:30pm - 4:30pm

FAM 0022

DESIGN:ARCHITECTURAL

The main objective of this course is to introduce basic principles of architectural design through design projects. The course begins with projects addressing some principles of 3D design and representation, models, drawing and observation; then moves to slightly more complex and involved architectural problems. There is no definitive path or linear progression for making architecture and the course investigates many of its aspects in these projects. Each project will address: Skills: Drawing and other means of graphic representation, model building, research, reading and interpreting maps.

Design Thinking: The process of developing ideas through proposing and evaluating solutions.

Ideas: The poetic notion which gives sense and meaning to architectural forms. Context: Historical, cultural, physical, and topological. Tectonics: Structural, material, order and organization.

Since a major component of this class is studio work, you are expected to attend every class. Expect to work about eight hours a week outside of class, as well.

Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Prerequisites: Courses in studio art and architectural history are preferred but not required.

Sections

01955 FAM 0022A ARR Staff 1.0 Mw 7-10 Pm High Demand Reg At Art History Dept

FAM 0023

DESIGN:ARCHITECTURAL ADV

Building on your experience from FAM 0022, you will be assigned five major projects to refine your design process and your knowledge of basic architecture design principles. You are asked to develop projects further than in FAM 0022 and to incorporate previous learning experiences, such as past studio projects, work from other related courses, such as architectural history, sculpture, and drawing, in developing each project. In addition to the five projects, you will maintain a sketchbook recording your work - sketches of projects, and design ideas, as well as terms used in class. Since a major component of this class is studio work and participation in group discussions, you are expected to attend every class. The course is designed to require at least one hour of work outside of class for each hour of class.

Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Prerequisites: FAM 0022.

Sections

01956 FAM 0023A ARR Staff 1.0 Mw 7-10 Pm High Demand Reg At Art History Dept

Studio Art - Medford Campus

**FAM 0024
DRAWING:INTRO**

This is an introductory course in drawing as a creative tool and as a means of learning to see. Problems will center around rendering, composition, the use of perspective, design, and the figure. A variety of materials will be used.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04227 FAM 002401 ARR Lyman, Mela 0.5 Fri 1:30-4:30pm

**FAM 0026
DRAWING:FOUNDATION**

Drawing is a fundamental skill that plays an important role in all areas of visual art. Students will discover some of the key elements and methods that form the foundation of the drawing process. A focus on the basics will include an investigation of issues such as line, shape, gesture, draftsmanship, planes (simple and complex), perspective, anatomy, proportion and measurement, positive and negative space, placement, and value composition. Students will be introduced to a variety of materials including charcoal, conte, and pencil. The course will use direct observation and invention to approach an array of subjects, including the figure, objects, and imagination. Structured in-class activities and demonstrations expose students to the essential tools for sharpening their vision and finding their expressive voice.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01957 FAM 0026A ARR Brodell, Ria 1.0 Tues & Thurs 7:00pm - 10:00pm
01959 FAM 0026C ARR Menco, Greg 1.0 Mon & Wed 7:00pm - 10:00pm
01960 FAM 0026D ARR Life, Justin 1.0 Mon & Wed 1:30-4:30 Pm

**FAM 0027
DRAWING:INTERM TO ADV**

(SPRING 2012 & BEYOND). This class is for students who have taken Foundation Drawing or have had previous experience with fundamentals of drawing. Students will further advance their drawing skills and experiment with various drawing approaches and styles, including mixed media. The objective is for students to develop a more individual style and direction through exposure to various possibilities. Students will be able to build a personal body of work within the structure of class. We will observe the work of a wide variety of artists and visit Boston area museums in order to provide insights, points of departure and inspiration based on perceptions and translations of the observed visual world. Students will work in both black-and-white and color, using traditional materials such as graphite pencil, charcoal, conte, and pastel, with the option of introducing painting media into drawings. Live models will be used throughout the semester. For further inquiries please contact the instructor.

Sections

04228 FAM 0027B ARR Carter, Patrick 1.0 Tue & Thur 1:30-4:30pm

**FAM 0035
FIGURE DRAWING**

Contemporary and traditional approaches to the figure will be the focus and inspiration for this course. Composition, light, gesture, line, contour and space will be addressed through the juxtaposition of models and objects. Proportion and traditional methods for observational drawing, including systems of perspective, will be addressed. Various materials will be explored as important elements in providing greater descriptive capacity for self realization and expression. Examples of drawings from the past to the present will be resources and context for understanding and experimenting with the subject matter and the tools for its expression. Discussions of the work will be ongoing. Media will include charcoal, sumi ink, graphite, erasers and other water based media.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04229 FAM 003501 ARR Lyman, Mela 0.5 Wed 9:30am-12:30pm

**FAM 0039
GRAPHIC DESIGN**

This is a commercially oriented course in visual communications that will cover conceptual design, visual literacy, and the principles of design. Students will work individually on realistic communications projects with attention given to layout, typography, production, and computer competency. This course includes problem solving analysis, creative concepts, and basic computer skills using Adobe Illustrator software. This course is designed to accommodate both the beginner and more advanced students through a series of presentations, class critiques and field trips. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01961 FAM 003901 ARR Pape, Marcy 1.0 Mon & Wed 7-10
04230 FAM 0039A ARR Pape, Marcy 1.0 Mon & Wed 7:00-10:00pm

**FAM 0040
GRAPHIC DESIGN II**

This advanced course in advertising design will continue to build on skills acquired in FAM 39, covering complex design techniques, practical applications of new materials and current communications theory. Students will work individually on graphic design problems that will further develop their awareness of how design enhances communication in all printed media, while at the same time building their computer competency. Class critiques, lectures and trips to printing houses are an important part of the course. Regular attendance is imperative. Continued courses may be taken for credit an unlimited number of times. Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Prerequisites: FAM 39.

Sections

01962 FAM 004001 ARR Pape, Marcy 1.0 Mon & Wed 7-10
04231 FAM 0040A ARR Pape, Marcy 1.0 Mon & Wed 7:00-10:00pm

**FAM 0052
INTRODUCTION TO PAINTING**

This course exposes students to the issues and explores techniques of contemporary painting. Process, not product, is stressed. Working in oil or acrylic paints, exercises will explore the basics of value, color, composition of 2-D and 3-D space, usually working from life in the classroom studio. We will also see contemporary work in local galleries, museums or professional artist's studios, and explore ideas generated there. Previous drawing or painting experience is preferred but not required. The class exercises have multiple level entry points. Instruction is geared to individual needs and interests of the student. This class may be repeated for credit. Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04232 FAM 005201 ARR Belton, Susan 0.5 Fri 9:30am-12:30pm

Studio Art - Medford Campus

**FAM 0053
INTRO TO PAINTING CONT'D**

This course is a continuation of Introduction to Painting (FAM 0052). It allows students to work more independently and to explore advanced painting techniques and issues. We will continue to investigate work by contemporary artists and engage in a dialogue about what it means to be a painter in the 21st century. Personal commitment, vision, and curiosity will be the driving force behind the work produced in the class. Emphasis will be placed on developing one's own tastes and sensibilities as a painter so that an increasingly sophisticated level of mastery may be achieved. Both individual and group critiques will be conducted throughout the semester. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04233 FAM 005301 ARR Brown, Lizi 0.5 Fri 1:30-4:30pm

**FAM 0054
PAINTING:FOUNDATION**

This course is an introduction to the materials and methods of painting. The framework of the course emphasizes the importance of individual responses and ideas; therefore no prior experience is required. Paint is used in exploring a wide range of subject matter, from ordinary, everyday objects to the human figure and face. Work in progress is discussed consistently with each individual and with the group as a whole. The purpose of the course is to develop both a broad understanding of color, shape, structure and space, and the confidence to recognize and value the extraordinary process of making art. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04234 FAM 005401 ARR Frost, Cynthia 1.0 Tue & Thur 1:30-4:30pm
04235 FAM 005402 ARR Levin, Marilyn 1.0 Mon & Wed 7:00-10:00pm

**FAM 0055
PAINTING:INTER TO ADV**

This course is an extension of Painting: Foundation (FAM 0054) with a much greater emphasis on independent and personal directions. The exploration of materials will include the use of oil paint and a more varied manipulation of scale. The assignment sets are more challenging and require more imaginative solutions developed through discussion and evaluation of work in progress. Note: Continued courses may be repeated for as many times as a student wants to. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04236 FAM 005501 ARR Frost, Cynthia 1.0 Tue & Thur 1:30-4:30pm
04237 FAM 005502 ARR Levin, Marilyn 1.0 Mw 0700pm-1000pm

**FAM 0063
PERSPECTIVE DRAWING**

This comprehensive course in basic objective drawing is open to all levels and is devoted to drawing from observation. Buildings, exterior objects and their surroundings, as well as the still life and interior spaces of the places we visit and draw during class will become subject matter as we explore various methods of creating the illusion of realism in our work. For context, we'll examine how western artists have historically used perspective to convincingly portray three-dimensional volume and space on two-dimensional surfaces. Concentration on the formal elements of line, shape, value, texture, light and other underpinnings of these works will provide insight into what has given this discipline it's time honored visual appeal and help us to create new and unique perspective drawings and designs. Continued courses may be taken for credit an unlimited number of times. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04238 FAM 006301 ARR Lyman, Mela 0.5 Tue 9:30am-12:30pm

**FAM 0064
PHOTO:FOUNDATION**

These foundation courses will cover fundamental aspects of photography as a means of personal expression: craft, seeing/perception, design, critiquing, history and hard work. The acquisition of basic skills in the craft of photography necessary to make technically good black and white prints will be emphasized along with the development of a photographic aesthetic. Critiques will be held to assist students in judging their work. The course will also give basic historical information to provide a context in which the students will be working. Students will be introduced to electronic imaging if time permits. Students must have a manually adjustable (non-automatic) 35mm camera with a 50mm lens and provide film and printing paper. The school will provide chemicals and darkroom facilities. Approximate cost of supplies will be \$150. Three to six hours per week of lab time outside of class will be required.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01963 FAM 0064A ARR Angier, Roswell 1.0 Mon & Wed 1:30pm - 4:30pm
01964 FAM 0064B ARR Gardner, Dore 1.0 Tue & Thu 1:30-4:30 Pm
01965 FAM 0064C ARR Mandel, Mike 1.0 Tues & Thurs 7-10 Pm

**FAM 0065
PHOTOGRAPHY & COMPUTER**

This course is an introduction to the techniques of electronic imaging as they relate to the practice of photography. Students will learn the basics of digitizing, image editing, and manipulation with Adobe Photoshop. In addition to regular assignments and critiques, there will be frequent class discussions of critical and historical issues raised by the introduction of the computer into the practice of photography. Some familiarity with computers is desirable, but not absolutely necessary. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04240 FAM 0065A ARR Macintyre, Tom 1.0 Tue & Thur 4:00-6:45pm

**FAM 0067
INTER TO ADV PHOTO**

This course presumes a basic working knowledge of photographic materials and processes: how to expose and develop film and how to print the negatives. The technical aspect of the course is geared toward finer control of exposure and materials. Development of visual ideas will be emphasized, and individual and group critiques will be arranged in order to broaden both personal approaches and a fuller understanding of the medium. Class attendance is mandatory and group participation is highly encouraged.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04241 FAM 006701 ARR Angier, Roswell 1.0 Mon & Wed 7:00-10:00pm

**FAM 0077
SCULPTURE FOUNDATION**

Designed to produce an environment where learning is by doing and thinking, this introductory course encourages experimentation toward the discovery of possibilities in sculpture. Initially, the student will produce a series of sculptures in clay based on the dissection and analysis of a single object - then branch into the use of alternate materials such as cardboard, plaster, and found objects. This process helps uncover innumerable layers of meaning and reference to the subject, and assists in the exploration of the relationship between material and concept - experiencing how the types of material used may

Studio Art - Medford Campus

change one's perception of the object. Notebook journals, class readings and other media will be an ongoing part of the course, and the student is expected to produce an individual final project at semester end. Students with sculpture experience could also benefit from this class. Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

04243 FAM 009801 ARR Blotnick, Judy 0.5 Wed 9:30am-12:30pm

FAM 0193

SPECIAL TOPICS

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

CONTEMPORARY PORTRAIT

01969 FAM 019302 ARR Brown, Lizi 1.0 Thurs 7-10 Pm

Sections

01966 FAM 0077A ARR Star, Brenda 1.0 Mon & Wed 1:30pm - 4:30pm

FAM 0093

WATERCOLOR

An introduction to watercolor painting for beginners. The basic techniques and the characteristics innate to the watercolor medium will be explored. Frequent exercises will develop the individual's understanding of the medium in technical, expressive, and historical terms. Great watercolorists will be studied. There will be a trip to see masterpieces from the Museum of Fine Arts' watercolor collection. Basic skills will include watercolor techniques, light (indoor and outdoor), figure-ground relationships, and color(mixing, layering, theory, perspective).

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01967 FAM 0093A ARR Finnegan, Katha 1.0 Tues & Thur 1:30pm - 4:30pm

FAM 0094

WATERCOLOR:INTERM TO ADV

Students will develop the expressive and technical skills acquired the first semester and expand their understanding of the elements that work together to make a painting. Note: Continued course may be taken for credit an unlimited number of times.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04242 FAM 0094A ARR Finnegan, Katha 1.0 Tue & Thur 1:30-4:30pm

FAM 0095

WATERCOLOR:DIRECTED STDY

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01968 FAM 009502 Finnegan, Katha 1.0

FAM 0098

ART AS FASHION

Since the beginning of the twentieth century, the validity of the notion that art and fashion are distinct and separate practices has eroded. Art as Fashion. Fashion as Art explores the collaborative relationship between the two. This course is intended for artists who are interested in the world of fashion and for fashion enthusiasts who are looking to approach design from a different, fresher perspective. We will work in class on assigned projects, explore unusual methods of making clothes, jewelry, and accessories, learn how to design a comprehensive collection, and put a portfolio together. You will be given readings and shown works that illuminate the effect of current events, economics, and art on the fashion collections being shown in Europe, Asia, and the United States, as well as the ins and outs of the "rag trade." This course is open to students of all levels. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

Studio Art - Museum School

FAMB0002

ANATOMY:MUSCLES

This is the second of a two-part study; the skeleton is the focus of the fall course. This course is designed to improve your concept and understanding of the human figure by studying the muscle structure and how it affects surface appearance. You will gain an improved sense for observation, proportion, perspective, planes, structure, volume, weight, space, and clarity of articulation, as well as for the visual dynamics of body movement and resultant formal changes. Class periods include drawing from models (gesture and long pose), illustrated lectures, slide lectures, observation from models, the skeleton, plaster casts, and more. To develop a working knowledge and full comprehension of the musculature, there will be periodic long studies from models during which you may test your memory of the muscles in relationship to the skeleton, to other muscles, and to the surface form. Homework is required (one hour per week minimum). Anatomy study is best suited for students who have had at least a beginning course in drawing. It is strongly recommended, though not required, that you first take Anatomy: Skeleton or its equivalent.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04356	FAMB000201	ARR	Hoag, Gerry	0.5	Mon 6:30-9:45 Pm @ Smfa
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FAMB0003

ART AS PROCESS

This transformative workshop is for individuals who want the challenge of investigating new and unique ways of making art. Art as Process is an intensive class that focuses on experimentation and the creative process rather than a pre-imagined or calculated end product. Each week a different project will be introduced, worked on, and completed. We will explore painting, drawing, sculpture, and other media with an eye towards combining materials in unusual ways. Abstraction, Realism, and Conceptual approaches will be discussed and explored through a variety of hands-on projects. Open to all, from absolute beginners to advanced artists, Art as Process is particularly useful for those interested in exploring and developing their own creative abilities, assembling a portfolio for art school, or exploring the idea of a professional art career. The course also provides something of a unique preview to students who might be interested in a Museum School education, as it exemplifies the School's open approach to making art.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04359	FAMB000301	ARR	Hull, Kata	0.5	Wed 6:30-9:45 Pm At The Smfa
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FAMB0010

INTRO ADOBE ILLUSTRATOR

Adobe Illustrator is a premier, high-level design application used by graphic designers. This course has two objectives: to help you become proficient in Illustrator and to develop your ability to use Illustrator in solving a range of graphic design problems. During the first part of the course you will learn basic Illustrator skills such as drawing, type, layers, masks, painting, and gradients. The second part of the course will be devoted to applying these basic techniques to design issues related to logo and typographic design, touching briefly on the integration of Illustrator and Photoshop. If you have some experience with the Macintosh computer and want to learn what you can accomplish in graphic design using the computer as a tool, this introductory course will provide you with the requisite Adobe Illustrator skills.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04358	FAMB001001	ARR	Stanton, Gary	0.5	Mon 6:30-9:45 Pm At The Smfa
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FAMB0013

BEGINNING CERAMICS

Clay is a tactile material with an amazing range of possibilities. To experience the full scope of hand-building in clay, you will explore a variety of construction techniques along with various surface treatments using glazes and different firing methods, including Saggar, Gas and electric firing. Demonstrations and slide presentations will provide technical instruction as well as creative inspiration. All techniques are open to personal interpretation. Hand-building and glazing methods are applicable to functional, decorative, and sculptural ceramics.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04360	FAMB001301	ARR	Kim, Jieun	0.5	Wed 6:30-9:45 Pm At The Smfa
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FAMB0014

CERAMICS:WHEEL THROWING

Prepare to get your hands dirty in this introductory wheel-throwing course. We will start by learning the basics of creating a simple vessel and move on to more refined techniques that push the limitations of this versatile media. Through demonstrations and hands-on learning, we will cover the use of low-fire terracotta clays as well as high-fired stonewares. You will be provided with an opportunity to explore a variety of wheel-throwing techniques and various glazing methods. This course is designed for beginner throwers.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04361	FAMB001401	ARR	Kim, Jieun	0.5	Sat 9 Am-12:15 Pm At Smfa
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FAMB0018

2 D DESIGN

Design is the process of selecting, organizing, and processing visual elements to express yourself in a cohesive and creative manner. These elements are shape, value, texture, color, and line. Visual awareness and a working knowledge of the design elements are developed by solving a series of two dimensional problems. During this process, you will employ a variety of media and materials. Principles learned in this course have direct application to all art media and provide a foundation and direction for seeing, and for learning skills in other courses.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04362	FAMB001801	ARR	Avakian, John	0.5	Tues 6:30-9:45 Pm At Smfa
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FAMB0020

BEG GRAPHIC DESIGN

This intensive course presents a broad range of design assignments based on realistic case histories. You will work on a number of assignments simultaneously by breaking them down into logical design procedure steps, including problem analysis, creative concept development, mock-up development, and finished art. Throughout the course, emphasis will shift from idea generation and design theory to technical skills. Lectures on creativity, design and color theory, graphic design and letterform history, and typography are a regular part of the course, and there will be some use of the Macintosh in class to develop work. You may work on your own special projects in place of class assignments. The course accommodates beginners and more advanced students who are building a portfolio.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

Studio Art - Museum School

04363 FAMB002001 ARR Templeton, Matt 0.5 Mon 6:30-9:45
Pm At Smfa
04364 FAMB002002 ARR Templeton, Matt 0.5 Sat 9 Am-12:15
Pm At Smfa

**FAMB0021
INTERMED GRAPHIC DESIGN**

This course is for students who have taken Beginning Graphic Design or an equivalent course and are looking to gain further experience solving real-world graphic design problems while producing portfolio pieces. Emphasizing hands-on studio work on the computer with minimal lecture time, this course will focus on learning efficient work habits and on developing an arsenal of problem-solving techniques. You will receive individual attention from the instructor while continuing to develop your own graphic style. Discussions about conceptual ideas and design development through completed projects will include analysis of typography, color, layout, and content decisions and options. By the end of the course, you will have created four to five portfolio pieces suitable for presentation at job interviews.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04365 FAMB002101 ARR Breiner, Joanne 0.5 Thurs 6:30-9:45
Pm At Smfa

**FAMB0022
PHOTO & DIGITAL PRINTMAK**

Whether or not you are working from a photographic image, there are numerous approaches in printmaking that develop from scanned images as well as from a seamless incorporation of found and appropriated imagery and text. Over the past ten years, there have been significant technical improvements in photo-based print processes as a result of digital applications. This course will explore a range of approaches with photo/scanned imagery. We will begin with the lowly photocopy and explore gum printing in both black-and-white and color, and then expand into photo etching with photo-polymer emulsion. Time permitting, we will also introduce the use of photo-polymer (pronto) plate lithography. No prior experience is necessary, although a familiarity with Adobe Photoshop is helpful.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04366 FAMB002201 ARR Shepherd, Eliza 0.5

**FAMB0025
INTRO DRAWING**

This introductory course offers an immersion in the essential experience of drawing and will provide you with the expressive foundation you will need for future work. Working from still lifes, interiors, and models, we will focus on spatial and compositional development. Through a variety of approaches and media, we will explore drawing as a vehicle for individual expression. Issues of mark making, process, control, and accident will be emphasized. We also will experiment with the expressive potential of line, tone, and mood to explore a variety of graphic techniques. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

MAKING MARKS

04602 FAMB002501 ARR Staff 0.5 Wed
6:30-9:45pm At
Smfa

**FAMB0028
INTERM TO ADV DRAWING**

Individual imagery grows out of a process that is not premeditated; it relies on instinct, invention, and honest interpretation. The focus of this course will be to stimulate personal definitions of what may or may not be seen. This is a course for those who wish to challenge their drawing knowledge while provoking a curious attitude toward image making. An investigation of materials will be encouraged and a tactile vocabulary will be emphasized. For content and reference, a model will be used, as will the room and some objects-even the air. Critiques and class discussions will take place weekly. Attendance is essential for continuity and clarification of ideas.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04368 FAMB002801 ARR Flynn, William 0.5 Tues 6:30-9:45
Pm At Smfa

**FAMB0035
INTRO TO TYPOGRAPHY**

Typography is a field of graphic design used to give voice to the printed word. This introductory course will lead to the knowledge of creating and organizing letters, words, sentences, and paragraphs to visually communicate an idea, and promises to help develop your creative processes in new and powerful ways. Topics include the anatomy of letterforms, type history and classification systems, how to choose type, legibility, readability, and the expressive qualities of type. Course methods include discussions and critiques, slide show lectures, and demonstrations, as well as hands-on problem solving exercises and assignments. While this is not a software-based course, there will be frequent use of Macintosh computers. This course is suitable for beginning and intermediate their professional skills in visual communications.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04369 FAMB003501 ARR Stein, Karen 0.5 Wed 6:30-9:45
Pm At Smfa

**FAMB0036
INTRO TO FILMMAKING**

This class provides an introduction to the technical and aesthetic aspects of film production using primarily Super-8mm equipment for individuals with little or no This class provides an introduction to the technical and aesthetic aspects of film production using primarily Super-8mm equipment for individuals with little or no previous experience with film who are interested in pursuing filmmaking as a fine art discipline. Basic shooting and editing techniques will be covered and you will be introduced to a wide range of production methods and creative strategies that encourage exploration and risk-taking in all the aspects of the medium. The course has a strong workshop component with a hands-on instructional approach. It proposes a stimulating, inspiring, and challenging environment that fosters the exchange of ideas, offers new ways of seeing, and promotes experimentation. Materials-including Super-8mm film and supplies-and lab expenses for film processing are not included in the tuition.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04370 FAMB003601 ARR Mahoney, Gregor 0.5 Mon 6:30-9:45
Pm At Smfa

Studio Art - Museum School

FAMB0037

ANIMATION:STOP MOTION

This course will focus on puppet and object animation, including both old- and new-world styles. Through film screenings and course exercises combined with class workshops, you will learn to design and build puppets for purpose and function as well as to animate them. We also will examine how to build sets and light them to scale and explore the techniques of character directing. A final project will be the focus of the last weeks of the class, and is a requirement for the completion of the course. Some supplies are provided by the instructor and a materials list will be given out and discussed during the first day of class. Animation skills are recommended but not required.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04371 FAMB003701 ARR Kolbe, Joseph 0.5 Thurs 6:30-9:45 Pm At Smfa

FAMB0038

REALIST PAINTING

The issues and techniques of realist painting have been central to artistic practice for centuries. In this course we will explore the techniques and concerns of realist painting, focusing primarily on figure painting. We also will explore the relationship of the perception of values and color to palette arrangement and technique, and the relationship of design and color harmony to the clear structuring of space. We will seek appropriate stylistic models, past and contemporary, and attempt to adapt traditional types of paintings to modern situations.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04372 FAMB003801 ARR Chippendale, Ch 0.5 Sat 9 Am -12:15 Pm At Smfa
04373 FAMB003802 ARR Chippendale, Ch 0.5 Sat 1-4:15 Pm At Smfa
04374 FAMB003803 ARR Chippendale, Ch 1.0 Sat 9 Am-4:15 Pm At Smfa

FAMB0043

ILLUSTRATION AN INTRO

You will explore art that exists in a special partnership with the written word- illustration- in this non-computer-based introductory course. Illustration serves to clarify, explain, decorate, and enhance text. We will work with material from books, magazines, and newspapers, and begin with small whimsical spot illustration in black and white before moving on to larger pieces, color, and sequential images. The final project will juxtapose words and illustration in a large size poster or a project of your own choosing. You will have the opportunity to work in a variety of traditional and non-traditional techniques. Class time will consist of presentation of topics and techniques, samples of artful illustration, critiques of assignments, and studio time. At the end of the course, we will discuss practical tips for preparing a portfolio and showing it in the "real world." This class is for anyone with a love of creativity, and relating art and text. Beginners welcome.

Please see departmental website for detailed information:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04376 FAMB004301 ARR Landry, Joe 0.5 Mon 6:30-9:45 Pm At Smfa

FAMB0045

ADOBE PHOTOSHOP

This course will begin with basic Adobe Photoshop techniques such as selecting objects, copying and pasting, color correction, photo retouching, montage, and collage. As your skills develop, you will begin to incorporate more advanced features into your work, using layers, masks, paths, colorizing, and duotones. We will also cover the basics of scanning reflective art, negatives, slides, and video capture. By working with Photoshop images, you will gain an understanding of resolution and output options. Prerequisite: A thorough knowledge of the

Macintosh computer.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04377 FAMB004501 ARR Thayer, Alexa 0.5 Tues 6:30-9:45 Pm At Smfa

FAMB0047

LITHOGRAPHY

Printmaking, as a process, allows an artist the opportunity to explore an image in depth through multiple re-workings. The artist can work and then re-work an image almost indefinitely - all while keeping the history of past impressions. This class will focus on the concept of the progressive proof, allowing you to develop an image or concept over the semester and to really examine all the variations possible. In terms of media, we will focus on lithography, both in editions and as singular monoprints. All levels are welcome.

Please see departmental website for specific details: http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01970 FAMB004701 ARR Muskat, Carolyn 0.5 Tues 6:30-9:45 Pm At Smfa

FAMB0048

BEGINNING JEWELRY

Metals-brass, copper, bronze, and silver- can be shaped, molded, cast, cut, and altered to produce sculptural objects, jewelry, or decorative pieces. Through demonstrations and hands-on projects, this course will explore the fundamental skills and techniques in jewelry making. You will learn processes such as sawing, piercing, riveting, texturing, silver soldering, bezel setting, and simple casting. Projects will allow you to make pieces of your own design. This course is essential for beginning jewelry artists, sculptors in metal, or anyone interested in working with metals.

Please see departmental website for detailed information:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04378 FAMB004801 ARR Priest, Linda 0.5 Tues 6:30-9:45 Pm At Smfa
04379 FAMB004802 ARR Bonazoli, Sandr 0.5 Sat 9 Am-12:15 Pm At Smfa

FAMB0051

INTERMEDIATE JEWELRY

Metals is a wonderful versatile material, you can dome it, solder it into forms, set different materials into it, cast, and with some metals anodized it to achieve bright colors. This semester is full of interesting ways to create jewelry and small objects in non ferrous metal. We will hammer metal to make a domed bracelet and take a single piece of metal, cut and bend it around to fabricate a hollow constructed ring. We will add a little sparkle to a piece by setting a faceted stone in a bezel setting. We will explore simple casting, fusing, simple hinge making, plus color reactive metals. We will experiment with different material to emboss into metal and an even weave a chain. Exercises are given out to encourage exploration of techniques. Students are encourages to be creative in projects that incorporate new information.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04380 FAMB005101 ARR Priest, Linda 0.5 Thurs 6:30-9:45 Pm At Smfa

Studio Art - Museum School

FAMB0059

FOUNDATION PAINTING

This foundation painting class starts with the basics-setting up, paint application, color theory and its practical application to mixing color, use of media, stretching canvas, and using alternate supports-and advances to more challenging problems. This structured class is suitable for the novice and those with prior experience who feel they need an overview of painting and process to advance their work. Painting from life or imagination, realistically or abstractly, we will hone our skills to communicate ideas visually. Technical methods range from monochromatic underpainting, glazing, and scumbling to wet-on-wet techniques. We will emphasize visual thinking and the need to fully utilize, coordinate, and relate all elements of painting, form, color, space, scale, proportion, and the joy of paint. You will be asked to maintain a sketchbook and to participate in class discussions and critiques. Materials will be discussed at length during the first class. The Tuesday portion is designed for students who wish to work with and learn from natural subject matter, such as still life, nude figure, and portrait. The emphasis is on varied techniques and working methods, although some theory is given. The Thursday portion is designed for students who wish to continue to explore and enhance their foundation painting technique and skill. It is suited for novice students as well as for intermediate-level students who are seeking a structured review before pursuing work on their own. Emphasis will be on a visual response to color, form, and a feeling for paint. Technical matters will be reviewed.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04382 FAMB005901 ARR Zonies, Abby 0.5-1.0 Tues 6:30-9:45 Pm At Smfa

FAMB0061

PAINTING:INTRMT TO ADV

This course is for students who are interested in furthering their painting skills, interests and projects. Structured as a workshop, students will discuss their previous work and future goals with the instructor and receive ongoing, personalized, specific feedback. This will enable them to advance their work beyond the basic painting skills they have already mastered in previous courses. Instruction will be offered in whatever subject is relevant and useful to a particular student on a given day, including painting techniques, archival issues, color complexities, composition, and what it means to be a painter in the twenty-first century. Students will explore work by other painters and learn to think about their own work in relation to these self-selected "mentors." Group critiques will be conducted occasionally during the semester to foster a sense of community and to increase dialog in the workshop, but the mainstay of the course is each student's own personal journey in painting. Please note: Students are expected to have achieved some mastery of basic painting skills, which will be built upon throughout the semester. Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01971 FAMB006101 ARR Spatz-rabinowit 0.5 Mon 6:30-9:45 Pm At Smfa

FAMB0073

PORTRAIT DRWG & PTNG

Portraiture is specific and general, timely and timeless. It tells us about a specific individual while telling us something about us all. The portrait, whether a painting or drawing, involves technical, organizational, spiritual, and philosophical concerns basic to any work of art. The initial objective is to produce a physical resemblance to the model, but it is even more important to progress toward the elusive "other" inner life (sometimes at the expense of physical likeness). Several approaches will be introduced to help you discover a natural and personal direction. You will use such drawing and painting materials as charcoal, graphite, acrylics, ink washes, water-based paint, and oil-based media.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01972 FAMB0073A ARR Carter, Patrick 0.5 Tues 6:30-9:45 Pm At Smfa

FAMB0077

PRINTMAKING:MONOPRINT

A monoprint is an individual, one-of-a-kind print that can be made from a variety of traditional plates (matrices) such as metal, wood, cardboard, plexiglass, or other non-traditional surfaces that are found or manipulated. The course is designed to teach you the basics in mixing inks, hand wiping and rolling techniques, and overprinting in multiple colors and plates. The making and printing of carborundum, plates, gum transfers, and chine collé also will be taught. This course provides an opportunity for students to develop an image through a related series of unique prints perhaps putting them into a portfolio or book. Open to all levels, from beginners as well as to those who wish to investigate new techniques.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

01973 FAMB007701 ARR Rosenberg, Rhod 1.0 Sat 9:00-12:15pm, 1:00-4:15pm At Smfa

FAMB0082

GUITAR DESIGN & CONSTRUC

If you are interested in making your own stringed musical instrument or want to develop fine woodworking skills, this course will give you a good foundation. You will start off by designing and building a uniquely American instrument: the Appalachian or mountain dulcimer. This beautiful instrument is relatively easy to build and to play. Even if you have little or no woodworking background, you will be able to complete a dulcimer. Students who finish in time may start a travel or "back pack" guitar. This popular instrument is light and easier to make than a full-sized guitar. Both projects involve shaping, bending, and joining wood into delicate yet amazingly strong structures-skills that can be applied to a wide range of other fabrications and sculptures. Please note: Completing both a dulcimer and a guitar will probably require extra shop time outside of class.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04384 FAMB008201 ARR Stanul, Walter 0.5 Thur 6:30-9:45 Pm At Smfa

FAMB0083

INTRO TO WEB DESIGN

As the Internet continues to grow in popularity and technological capability, so do the creative possibilities for interactive design and art making. In this course, you will learn the fundamental skills necessary to design and develop websites, including X/HTML, CSS, and incorporation of images, sound and video. Using Adobe Dreamweaver CS3 (Creative Suite 3), you will acquire expertise both in hand coding and the use of a sophisticated layout program for creation of web pages. While the course focuses on Dreamweaver, we will also explore Dreamweaver's integration with other Adobe Creative Suite applications such as Photoshop, Illustrator and Fireworks, opening up a wealth of creative possibilities, and examine theoretical and practical approaches to interface design, supporting the development of your individual vision. Prerequisite: Experience with electronic imaging and software such as Adobe Photoshop.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04385 FAMB008301 ARR Staff 0.5 Sat 1-4:15 Pm At Smfa

Studio Art - Museum School

FAMB0087

SCREEN PRINTING

This course enables students to explore some of the most current and innovative technology within the world of printmaking and screenprinting. Color separations, large-format printmaking, and the use of computer applications in the screenprinting process will form the heart of the course, which is devoted to exploring the breadth of screenprinting opportunities. We also will examine traditional screenprinting techniques in order to provide students with an understanding of the full spectrum of screenprinting approaches. No printmaking or computer experience is required.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04386 FAMB008701 ARR Hecht, Michael 0.5 Mon 6:30-9:45 Pm At Smfa

FAMB0094

WATERCOLOR & WTR MIX MED

In this course you will explore the broad range of contemporary water-based media, which includes watercolor, gouache, acrylic, acryla/gouache, and casein. We will examine how wet media can be used effectively with collage and with drawing materials such as marker, graphite, charcoal, and ink. Experimentation with new, different, and combinations of media will help you develop both your technique and personal imagery. We will work from observation (still life and models), photographs, and the imagination. There will be projects involving photographs, journals, and maps as sources of inspiration and content. Class discussions, critiques, slide lectures, and visits to the Museum of Fine Arts, Boston, will be integral to the course. Weekly out-of-class assignments will expand upon work done in class. Open to all levels and abilities.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04387 FAMB009401 ARR Whitman, Heidi 0.5 Fri 9 Am-12:15 Pm At Smfa

FAMB0097

INTERMED WEB DESIGN

This course is for students who have experience with web design using HyperText Markup Language (HTML), Flash, or Dreamweaver. You will be introduced to new ways of thinking about how people use the Internet, both for business and creative expression, while learning the basics of scripting and programming. We will examine the fundamentals of interactive multimedia design and development by working in Flash, and create interactivity and data integration with JavaScript and XML. All of these elements will work together to help you produce sophisticated web designs featuring graphics, animation, sound, and video. By the end of the course, you will be able to design, develop, and implement a rich internet application.

Please see departmental website for specific details:
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Prerequisites: Introduction to Web Design or equivalent experience.

Sections

04388 FAMB009701 ARR Rettig, Pascal 0.5 Tue 6:30-9:45 Pm. Student Must Bring Own Laptop.

FAMB0098

ART AS FASHION

Since the beginning of the twentieth century, the validity of the notion that art and fashion are distinct and separate practices has eroded. Art as Fashion, Fashion as Art explores the collaborative relationship between the two. This course is intended for artists who are interested in the world of fashion and for fashion enthusiasts who are looking to approach design from a different, fresher perspective. We will work in class on assigned projects, explore unusual methods of making clothes, jewelry, and accessories, learn how to design a comprehensive collection, and put a portfolio together. You will be given readings and

shown slides that illuminate the effect of current events, economics, and art on the fashion collections being shown in Europe, Asia, and the United States, as well as the ins and outs of the "rag trade." This course is open to students of all levels.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04603 FAMB009801 ARR Blotnick, Judy 0.5 Wed 6:30-9:45pm At Smfa

FAMB0101

SPECIAL TOPICS

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04389 FAMB010101 ARR Staff 0.5 Wed 6:30-9:45 Pm At Smfa

FAMB0102

ILLUS CHILDREN'S BOOKS

The illustration of a children's book demands a refined personal style, unique skills, and the consideration of issues not required of general illustration. This course is open to both beginning and advanced students. For beginners, this course will explore the art of children's book illustration, focusing particularly on issues of style, color, and design. We will discuss topics such as layout, characterization, pace, and mood and their relationship to illustration. Assignments and critiques will allow you to experiment with various media and to develop a portfolio. Throughout the course, we will examine and analyze books and publications in the field. You will become familiar with the current demands of children, parents, publishers, educators, and libraries. For more advanced students, the objective of this course is to enable you to produce a children's book "dummy" suitable for presentation for publication. Each manuscript will be continually cross-critiqued by the instructor.

Please see departmental website for specific details:
http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04394 FAMB010201 ARR Plume, Ilse 0.5 Sat 1-4:15 Pm At Smfa

FAMB0111

COLOR THEORY

Have you ever wondered about the mystery of color? What is it, where does it come from, how has it been used historically, symbolically, culturally across many disciplines, and why does it continue to have profound significance on virtually all areas of art, design, and contemporary culture? Whether you are interested in fashion, interior design, graphic design, textile design, fine art, business, marketing, or just plain interested in learning about color and its practical applications, this hands-on studio course is for you. Throughout the duration of the course, you will be introduced to a variety of color systems and terminology, based on the theories of artists and scientists such as Johannes Itten, Albert Munsell, Josef Albers, Isaac Newton, and others. Each class will begin with a discussion and group critique of the previously assigned color mixing homework, followed by the instructor's presentation of new material. Upon successful completion of the course, you will be able to see, mix, speak and understand the language of color (tint, tone, shade, warm, cool, harmony, discord, chromatic intensity, achromatic gray scale, and more). Most importantly, you will understand how to utilize color relationships practically and professionally, in new and meaningful ways. You may even develop a new theory! This course is open to anyone who is interested in learning about color. No prior experience necessary. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04396 FAMB011101 ARR Staff 0.5 Wed 6:30-9:45 Pm At Smfa

Studio Art - Museum School

FAMB0117

DRWG:ILLUSTR & REALISTS

This non-computer-based course begins your exploration of illustration by working on essential drawing skills, introducing you to many of the techniques an illustrator uses, and covering theoretical topics relevant to illustration. Through weekly homework assignments and in-class critiques, the course emphasizes idea and visual metaphor development and the search for a personal style. Slide lectures on idea generation, design and color theory, and the work of illustrators-and also painters and sculptors of interest to illustrators-are a regular part of the course. Class projects include drawing and color explorations as well as the illustration of editorials, short stories, book jackets, posters, and sequential art. You also may bring your own projects to the course, which is designed to accommodate beginners seeking a foundation and others interested in strengthening their skills. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04397 FAMB011701 ARR Landry, Joe 0.5 Wed 6:30-9:45 Pm At Smfa

FAMB0121

DESIGN PORTFOLIO PREP

This is an advanced course for illustrators and graphic designers interested in a part or full-time career in any area of illustration or design. The course will include assignments to help you work towards the completion of a presentable portfolio for the specific purpose that you desire. Assignments will be tailored to individual needs, and you will receive feedback from your peers and professionals. You also will learn how to research appropriate venues for your work, write a good query letter, promote your work (including for use online), and approach publishers and potential clients. Throughout the semester, we will hear from guest art directors and other professionals. This course is ideal for individuals who have participated in all or most of the Illustration or Design Certificate requirements, or for those who wish to pursue a passion or career. Please see departmental website for specific details: http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04399 FAMB012101 ARR Lang, Glenna 0.5 Mon 6:30-9:45 Pm At Smfa

FAMB0134

DIGITAL PHOTOGRAPHY I

The challenge of digital photography is to manage this rapidly developing technology and still remain creative in your image making. Through discussion, demonstration, and hands-on practice, students in this course learn to operate digital cameras and to utilize them as precise tools for image capture. Discussions include the camera and equipment options available to digital photographers and how to establish a digital workflow. As students develop technical and aesthetic skills, they explore shooting techniques, composition and framing, as well as the basics of light control. Other topics covered include image management, using camera RAW, adjustment and editing in Photoshop, and printing digital images. Whether the student's interest is in fine art, or simply in making the move from film to digital, this course provides a solid foundation for future work. A digital camera is required for this course. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04401 FAMB013401 ARR Friedman, Jenif 0.5 Thur 6:30-9:45 Pm At Smfa

FAMB0141

SCULPTURAL FIBER

In this course you will learn a different fiber-related technique each week. Knitting, crocheting, dying, weaving, flexible structures, felting, and sewing by hand and by machine will be covered. We also will look at the history of these processes and their uses in contemporary art and you will gain a basic understanding of each technique by focusing on the sculptural capabilities of each. There will be demonstrations during each class meeting, and time will be provided to work toward mastering different techniques. This course is structured for beginning as well as

more advanced students. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04402 FAMB014101 ARR Fields, Samanth 0.5 Wed 6:30-9:45 Pm At Smfa

FAMB0143

COMIC BOOK ART

With each new blockbuster superhero film, comics are shedding their reputation for being childish. With this regained popularity, the number of comic titles and companies are growing. Students in this course will learn the essential techniques for creating a successful comic. Subjects like composition, panel layout, timing, and storytelling will all be covered. The positions of penciler, inker, and colorist will also be explored. Assignments throughout the course will result in a number of sequential pages that may be used in a portfolio. This course is beneficial for any artist looking to break into mainstream comics, create their own self-published comic, or create a webcomic. Other professional comic artists may be scheduled to speak. Note: Basic illustration skills are helpful. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04403 FAMB014301 Archer, Kent 0.5 Wed 6:30-9:45 Pm At Smfa

FAMB0146

COLOR DIGITAL PHOTO

This Adobe Photoshop-based course offers a technical and creative introduction to the use of color, color theory, digital capture, scanning film or slide negatives for color photography and is appropriate for students who have completed a foundation photography course. You learn how to use your digital cameras through raw processing as well as scanning film negatives and how to make a perfect print. The class will spend time learning what digital technology is, and how to expose, process, and resize images for proper output. We teach the fundamentals of color correcting, digital retouching, input and output resolution, and optimizing files for printing on a variety of papers. In this project-based class we will aim for technical understanding and production as a means to develop your unique voice and vision. Class time will be devoted to working in the "digital darkroom", looking at historical and contemporary color photography and reviewing your work. By the end of the course you will have a portfolio of finished color prints that represent the expression and resolution of a cohesive idea. Students may use either digital cameras or film-based cameras. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04404 FAMB014601 ARR Friedman, Jenif 0.5 Wed 6:30-9:45 Pm At Smfa

FAMB0147

MAPPING DRAWING/PAINTING

Maps evoke images of journeys and unexplored places and have a universal graphic appeal and fascination. In this hands-on course you will create drawings, paintings, and collages inspired by maps-both as material and metaphor. Conceptual projects may include mapping aspects of neighborhoods, apartments, bodies, or daily life. You will use the language of cartography-the art of creating maps-and the re-imagining of map shapes to make work that may or may not look like maps! Throughout the course you will use drawing tools, water-based paint, and collage and experiment with different combinations of media to develop personal imagery. The course includes class discussions, critiques, and slide and digital presentations. Open to all levels and abilities. Please see departmental website for specific details:

http://www.smfa.edu/Continuing_Education/Studio_Art_Courses_Open_to_Tufts_Students.asp

Sections

04405 FAMB014701 ARR Whitman, Heidi 0.5 Tues 6:30-9:45 Pm At Smfa

Studio Art - Museum School

FAMB0295

MASTERS EXHIBITION

Please see departmental website for specific details:
<http://www.smfa.edu>.

Sections

01974 FAMB029501 Brown, David L. 1.5

FAMB0296

MASTERS EXHIBITION

Please see departmental website for specific details:
<http://www.smfa.edu>

Sections

01975 FAMB029601 Brown, David L. 1.5

FAMB0401

MASTERS DEGREE CONT.

Please see departmental website for specific details:
<http://www.smfa.edu>

Sections

01976 FAMB0401PT Brown, David L. 0.0

FAMB0402

MASTERS DEGREE CONT.

Please see departmental website for specific details:
<http://www.smfa.edu>

Sections

01978 FAMB040201 Brown, David L. 0.0
01977 FAMB0402FT Brown, David L. 0.0

FAMB0451

MUSEUM SCHOOL COURSE

Please see departmental website for specific details:
<http://www.smfa.edu>

Sections

04407 FAMB045138 0.5

FAMB0503

MAT STUDIO ART COURSES

Please see departmental website for specific details:
<http://www.smfa.edu>

Sections

01980 FAMB050301 Bode, Patricia 2.0
01979 FAMB0503MU Brown, David L. 2.0

FAMB0504

MFA STUDIO ART COURSES

Please see departmental website for specific details:
<http://www.smfa.edu>

Sections

01981 FAMB050401 Brown, David L. 2.0

FAMB0505

MFA STUDIO RENTAL

Please see departmental website for specific details:
<http://www.smfa.edu>

Sections

04408 FAMB050501 0.0

Swahili

SWA 0002

ELEMENTARY SWAHILI II

Essentials of Swahili grammar, vocabulary, syntax, and usage. Emphasis on active command of basic spoken and written Swahili. One additional weekly practice session in small groups with a T.A. to improve speaking and listening facilities and expand class material.

Prerequisites: SWA 1 or equivalent.

Sections

03718 SWA 000201 F+TR Brown, Daniel W 1.0

SWA 0004

INTERMEDIATE SWAHILI II

The continuation of the intermediate course with discussion of literary texts and news articles. Review of more complex aspects of intermediate grammar. Written compositions, videos and internet assignments.

Prerequisites: SWA 3 or permission of instructor.

Sections

04108 SWA 000401 D+ Brown, Daniel W 1.0

SWA 0094

INDEP STUDY: SWAHILI

Independent Study. See department for details.

Sections

03719	SWA 009401	ARR	Brown, Daniel W	1.0	Permission Of Instructor
03720	SWA 009402	ARR	Brown, Daniel W	0.5	

Urban and Environmental Policy and Planning

**UEP 0094
ENV POLICY, PLAN&POLITICS**

(Cross-listed as ENV 94.) Please see departmental website for detailed information.

Sections

03721	UEP 009401	H+	Russell, Robert	1.0	C-1st Env 94 Undergrads Only
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**UEP 0173
TRANSPORTATION PLANNING**

Course looks at major passenger transportation modes including walking, bicycling, transit and automobiles. Focus on the skills and tools needed to effectively plan transportation projects- both directly through planning skills and indirectly through managing consultants. Course is presented within the context of how transportation intersects with communities, including how transportation impacts neighborhoods, the elderly and disabled, the price of affordable housing, economic development and overall quality of life. "Hands-on" approach with many guest speakers and a final project that will integrate course-work with student's professional interests.

Sections

03722	UEP 017301	10+	Chase, Mark	1.0	Graduate Standing Only
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**UEP 0181
HOMELESSNESS IN AMERICA**

Multi-disciplinary course examining the social, economic, and political dimensions of homelessness in the United States. Overview of causes, historical responses, and current conditions. Analysis of housing and welfare policies, mental health and substance abuse issues, economic and employment concerns. Volunteer work at shelters and organizations addressing homelessness required.

Sections

03723	UEP 018101	E+MW	Rubin, Roberta	1.0	C-1st Cd 143-05 & Soc 149-01, undergrads Only
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**UEP 0183
CHILD CARE: POL&PRACTICE**

(Cross-listed as CD 181.) Study of child care within the context of social policy, child development, and early-childhood education. Examination of legislation, funding, programming, curriculum, and staffing; and how age, stage, gender, race, culture, and family lifestyle affect the child's experience of child care. Students use Tufts Educational Day Care Center as a laboratory

Prerequisites: CD 1 or PSY 1, or permission.

Sections

03724	UEP 018301	1	Staff	1.0	C-1st Cd 181-01
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**UEP 0188
SEMINAR IN GOVT & FAMILY**

(Cross-listed as CD 188.) Examines government's role in promoting family development and well-being. Analysis of how various policies such as welfare, housing, community development, child support, and education impact children and families.

Please see departmental website for specific details:
http://ase.tufts.edu/uep/about_uep/

Prerequisites: CD 182 or permission of instructor.

Sections

03725	UEP 018801	3	Weisz, Virginia	1.0	C-1st Cd 188-01 Preq: Cd/uep 182 Or Consent
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**UEP 0201
LAND USE PLANNING II**

(Cross-listed as CEE 201 and ENV 201.) Overview of land use planning methods, growth dynamics, and land development controls. Comparison of different approaches to land use planning and decision making. Impact of recent environmental legislation on land use. Techniques of mapping, site analysis, subdivision regulation, development controls, and fiscal incentives.

Prerequisites: Consent of instructor.

Sections

03727	UEP 020101	5	Witten, Jon	1.0	Grd Stand Or Consent, c-1st Env & Ce 201
03726	UEP 0201MPH	5	Witten, Jon	1.0	C-1st Uep 201-01

**UEP 0215
LEGAL FRAMEWRKS SOC POL**

Provides students with a legal foundation for understanding the connections between social policy and individual rights. Examines the legal tools available to ensure justice in America, including the U.S. Constitution, pivotal court decisions, and landmark legislation such as the Civil Rights Act, the Fair Housing Act, and the Americans with Disabilities Act. Course touches on issues of race, gender, national origin, and sexual orientation, among other themes.

Prerequisites: Graduate standing or permission of instructor.

Sections

03728	UEP 021501	8	Rom, Alan Jay	1.0	Grad Standing Or Consent
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**UEP 0221
CLIMATE CHANGE POLICY PL**

Examination of climate change problem from perspective of scientific evidence, policy responses and media coverage. Sources of greenhouse gas emissions and a wide range of mitigation and adaptation measures are explored and assessed. Overview of climate change solutions being taken or planned by governments, communities, and institutions (both for profit and non-profit) and for major systems, e.g. transportation, buildings, and energy.

Sections

04319	UEP 022101	7	Rappaport, Ann	1.0	Graduate Standing Or Consent
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**UEP 0230
NEGOT & CONFLICT RESOL**

Techniques of negotiation and mediation applied to a broad range of conflict situations from interpersonal differences to labor relations, environmental disputes, and international relations. Combines practice in basic methods with theoretical and applied aspects of conflict resolution.

Sections

03729	UEP 023001	13+	Burdick, Robert	1.0	
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**UEP 0232
INTRO TO GIS**

(Cross-listed as ENV 193.) Broad foundation of GIS theory, capabilities, technology, and applications. Topics include GIS data structure and management, geodesy and map projections, and various techniques for raster and vector spatial data analysis. Laboratory exercises concentrate on applying concepts presented in the lectures using Idrisi and ArcGIS.

Sections

03731	UEP 023201	F+TR	Parmenter, Barb	1.0	C-1st Env 193-02, Uep & Env Stud Only
03730	UEP 0232MPH	F+TR	Parmenter, Barb	1.0	

Urban and Environmental Policy and Planning

UEP 0251

EC FOR PLAN & POL ANALYS

(Spring 2012 & Beyond). Required core course for M.A. and M.P.P. students. Economic concepts and tools of analysis for graduate students interested in public policy and planning. The emphasis of this course will be on microeconomic policy tools, although some macroeconomic topics will also be covered. The course will discuss the economic theories and techniques that can inform current policy debates such as global climate change, health care, employment, and economic inequality. The class will also demonstrate the limitations of economic analysis in guiding policy making. Although prior coursework in economics is not required, students are required to have a solid understanding of college-level algebra. Waiver permitted for students with an undergraduate major or substantial work-related experience in economics subject to faculty approval.

Prerequisites: College-level algebra

Sections

04320	UEP 025101	ARR	Davis, Mary E.	1.0	Graduate Standing Only
04321	UEP 0251LA	D+T	Davis, Mary E.	0.0	
04322	UEP 0251LB	I+W	Davis, Mary E.	0.0	
04323	UEP 0251LC	K+W	Davis, Mary E.	0.0	

UEP 0253

FINANCIAL ANALYSIS&MGMT

Introduction to the tools and terminology needed by staff of public and not-for-profit organizations to effectively manage financial resources. Emphasis on how to create tools and systems needed to analyze fiscal data and how to use the data to answer fundamental questions facing financial managers. Topics include budgeting, construction of cash flow projections, reading financial statements, internal and external reporting requirements, internal controls, and borrowing and investment decisions.

Prerequisites: Graduate Standing or permission of instructor.

Sections

03732	UEP 025301	11	Orlinoff, David	1.0	Grad Standing/consent
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UEP 0255

FIELD PROJECTS: PL & PRA

Required core course for students in M.A. program. Practical planning and research experience in a community or governmental setting. Students are exposed to the realities of urban and environmental planning practice by working in teams for actual clients. Focus on the interplay of expertise, social and political values, and professional relationships.

Please see departmental website for specific details:
http://ase.tufts.edu/uep/about_uep/

Prerequisites: UEP 250.

Sections

03736	UEP 025501	2+	Russell, Robert	1.0	Uep Students Only/meets Sophia Gordon Room
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UEP 0256

PROGRAM EVALUATION

(Cross-listed as CD 247.) Purposes for, and types and techniques of, program evaluation. Study of the evaluation process, including design, implementation, and dissemination, with focus on development of relevant data collection, analysis, and report-writing skills. Emphasis on learning to match individual programs with particular models of evaluation.

Sections

03738	UEP 025601	ARR	Jacobs, Francin	1.0	C-1st Cd 247-01 Grad Stnd,consent, T 0430-0730pm
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UEP 0261

COMMUNITY DEV PLAN & POL

Exploration of planning and community development, neighborhood revitalization, and local politics. Provides an overview of select literature, key issues, and debates in community development. Opportunity to conduct research about specific neighborhood-based planning and policy issues. Guest speakers include practitioners involved with community development initiatives and projects in Boston and Massachusetts.

Sections

03739	UEP 026101	5	Jennings, James	1.0	Grad Students Only
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UEP 0272

REAL ESTATE DEV & FIN

Overview of the development and financing of residential real estate with a concentration on the development of housing affordable to low-income households. Discusses real estate valuation and the financial tools necessary to invest in or develop residential housing. Focuses on the basics of real estate finance, including different methods of investment analysis, tax concepts, leverage and risk assessment. Case studies and guest lectures by a number of Greater Boston's leading practitioners in the field of low-income housing development.

Prerequisites: Graduate Standing or permission of instructor.

Sections

03740	UEP 027201	4	Rubin, Roberta	1.0	Grad Standing/consent
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UEP 0284

DEV SUSTAINABLE COMMUNIT

(Cross-listed as ENV 284.) Explores the many challenges of achieving sustainable development at local, regional, national and international levels. Focuses on improving the quality of people's lives, on disinvested communities, and on the inequitable distribution of income, wealth, and environmental hazards. Investigates the theory of sustainable development, as well as the tools, strategies, and the contexts needed to move towards the ecological integrity, economic security, empowerment, responsibility, and social well-being characteristic of sustainable communities. Case studies drawn from the U.S. and overseas.

Sections

04324	UEP 028401	3	Agyeman, Julian	1.0	Graduate Students Only
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UEP 0286

ENVIRONMENTAL ETHICS

(Cross-listed as ENV 286). Explores the values, rights, responsibilities and status of entities underlying alternative constructions of environmental issues. Subjects include: anthropocentric vs. biocentric approaches to natural resource protection, precautionary principle, ethics of cost-benefit analysis, equity and risk management, status of "rights" of non-human species and future generations, ethics of sustainable development and energy use, genetically modified crops, transgenic animals, deep ecology, and economic and non-economic value of wilderness and sacred lands.

Sections

04325	UEP 028601	6	Krimsky, Sheldo	1.0	Cross-listed With Phil 019501
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UEP 0289

INTEGRATIVE SEMINAR

Required core course for students in M.P.P. program. Challenges students to examine their academic learning, to demonstrate mastery of specific skills, and to examine the implications of policy development and implementation in complex and politically charged settings (half credit).

Sections

03741	UEP 028901	K+W	Jennings, James	0.5	Mpp Students Only
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Urban and Environmental Policy and Planning

**UEP 0292
DIRECTED STUDIES**

Directed Studies.

Please see departmental website for specific details.

Sections

04326	UEP 029201	ARR	Agyeman, Julian	1.0	Permission Of Instructor
04327	UEP 029202	ARR	Davis, Mary E.	1.0	Permission Of Instructor
03742	UEP 029203		Bratt, Rachel G	1.0	Permission Of Instructor
03743	UEP 029204		Jacobs, Francin	1.0	Permission Of Instructor
03744	UEP 029205		Jennings, James	1.0	Permission Of Instructor
03745	UEP 029206		Krimsky, Sheldo	1.0	Permission Of Instructor
03746	UEP 029209		Rappaport, Ann	1.0	Permission Of Instructor
03747	UEP 029210		Russell, Robert	1.0	Permission Of Instructor
03748	UEP 029211		Witten, Jon	1.0	Permission Of Instructor
04328	UEP 029212	ARR	Hollander, Just	1.0	Permission Of Instructor
03749	UEP 029213		Parmenter, Barb	1.0	Permission Of Instructor
03750	UEP 029214		Goldman, Laurie	1.0	Permission Of Instructor
03751	UEP 029215	ARR	Loh, Penn	1.0	Permission Of Instructor
03752	UEP 029220	ARR	Rubin, Roberta	1.0	Permission Of Instructor
04331	UEP 029221	ARR	Wu, Weiping	1.0	Permission Of Instructor

**UEP 0294
SPECIAL TOPICS**

Please see department website for specific information.

Sections

REGION PLAN:TOOLS & TECH

03754	UEP 029401	8	Hollander, Just	1.0	Grad Standing Or Consent, Meets 97 Talbot
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GREEN URBAN DESIGN

03756	UEP 029404	12	Cousineau, Chri	1.0	Meets 97 Talbot Ave, Grad Standing Or Consent
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REMOTE SENSING

03757	UEP 029405	E+MW	Koch, Magaly	1.0	Grad Standing Or Consent,c-1st Env 196-05
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PLAN FOR LOW IMPACT DEV

03759	UEP 029408	4	Horsley, Scott	1.0	Grad Standing Or Consent,meets 97 Talbot Ave
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WSSS PROGRAM

03761	UEP 029411	ARR	Russell, Robert	1.0	Students In Tufts Wsss Program Only, 97 Talbot Ave
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04339	UEP 029412	7	Centner, Ryan	1.0	
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RUNNING EFFECTIVE GROUPS

03762	UEP 029413	ARR	Schwartzberg, S	1.0	C-list Ots 230
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INT'L PLAN & URBAN POL

03763	UEP 029414	6	Wu, Weiping	1.0	Graduate Standing Or Consent
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JOBS THAT WORK

04345	UEP 029418	12	Goldman, Laurie	1.0	Graduate Standing Or Consent
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REMOTE SENSING

03753	UEP 0294MPH	E+MW	Koch, Magaly	1.0	
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**UEP 0295
THESIS**

Thesis.

Please see departmental website for specific details.

Sections

03765	UEP 029501		Agyeman, Julian	1.0	All Uep 295 Crs Are Year Long,perm Of Inst
03766	UEP 029503		Bratt, Rachel G	1.0	Permission Of Instructor
03767	UEP 029504		Jacobs, Francin	1.0	Permission Of Instructor
03768	UEP 029505		Jennings, James	1.0	Permission Of Instructor
03769	UEP 029506		Krimsky, Sheldo	1.0	Permission Of Instructor
03770	UEP 029509		Rappaport, Ann	1.0	Permission Of Instructor
03771	UEP 029510		Russell, Robert	1.0	Permission Of Instructor
03772	UEP 029511		Witten, Jon	1.0	Permission Of Instructor
03773	UEP 029512		Goldman, Laurie	1.0	
03774	UEP 029513		Hollander, Just	1.0	Permission Of Instructor
03775	UEP 029514		Parmenter, Barb	1.0	Permission Of Instructor
03777	UEP 029518		Davis, Mary E.	1.0	Permission Of Instructor
03778	UEP 029521	ARR	Loh, Penn	1.0	
04346	UEP 029524	ARR	Wu, Weiping	1.0	Permission Of Instructor

**UEP 0296
THESIS**

Thesis.

Please see departmental website for specific details.

Sections

03781	UEP 029601		Agyeman, Julian	1.0	All Uep 296 Crs Are Year Long,perm Of Inst
03782	UEP 029603		Bratt, Rachel G	1.0	Permission Of Instructor
03783	UEP 029604		Jacobs, Francin	1.0	Permission Of Instructor
03784	UEP 029605		Jennings, James	1.0	Permission Of Instructor
03785	UEP 029606		Krimsky, Sheldo	1.0	Permission Of Instructor
03786	UEP 029609		Rappaport, Ann	1.0	Permission Of Instructor
03787	UEP 029610		Russell, Robert	1.0	Permission Of Instructor
03788	UEP 029611		Witten, Jon	1.0	Permission Of Instructor
03789	UEP 029612		Goldman, Laurie	1.0	Permission Of Instructor
03790	UEP 029613		Hollander, Just	1.0	Permission Of Instructor
03791	UEP 029614		Parmenter, Barb	1.0	Permission Of Instructor
03793	UEP 029617		Davis, Mary E.	1.0	
03794	UEP 029621	ARR	Loh, Penn	1.0	
04347	UEP 029624	ARR	Wu, Weiping	1.0	Permission Of Instructor

**UEP 0401
MASTERS DEGREE CONT**

Part-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03797	UEP 0401PT			0.0	Permission Of Instructor
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Urban and Environmental Policy and Planning

UEP 0402
MASTERS DEGREE CONT

Full-time.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03798	UEP 0402FT	0.0	Permission Of Instructor
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Women's Studies

WS 0072

INTRO WOMEN STUDIES

Historic and emergent developments in the field of women's studies, with emphasis on the impact of race, class, ethnicity, and sexuality in global perspective. Materials and methodologies are drawn from a variety of disciplines.

Sections

03803 WS 007201 L+ Johnson, Ronna 1.0

WS 0092

RAPE CRISIS & RECOVERY

Rape Crisis and Recovery.

Please see departmental website for specific details.

Sections

03804 WS 009201 8+ Brown, Phillip 1.0

WS 0099

INTERNS:WOMENS'STUDIES

Internship.

Please see departmental website for specific details.

Prerequisites: Permission of instructor.

Sections

03805 WS 009901 ARR Hofkosh, Sonia 1.0 Permission Of Instructor

WS 0193

SENIOR PROJECT

A one-semester project culminating in a substantial interdisciplinary research paper or other creative project with a written component developed from the elective cluster topic. Students work with two faculty advisers from different departments. Includes a series of meetings throughout the academic year. Required of all majors and minors.

Please see departmental website for specific details:

Prerequisites: Permission of instructor.

Sections

03806 WS 019301 ARR Hofkosh, Sonia 1.0 Permission Of Instructor

WS 0199

SENIOR HONOR THESIS

Senior Honor Thesis.

Please see departmental website for specific details

Prerequisites: Permission of instructor.

Sections

04636 WS 019901 ARR Hofkosh, Sonia 1.0 Year-long / Ws Majors Only

World Literature

WL 0071

SCANDINAVIAN LIT

Introduction to selected works of Old Norse, Norwegian, Danish, and Swedish literature, with discussion of their cultural background, from the Snorra Edda and Old Icelandic heroic lays and sagas to works by Andersen, Hamsun, Lägerkvist, and Dinesen.

Sections

03801 WL 007101 H+ Ascher, Gloria 1.0

WL 0150

LITERATURE OF CHAOS

The voyage through the spiritual and political chaos into the twentieth century has produced a literature that speaks of an irrational man in an irrational world. The course will examine the theme of chaos as it is expressed in Lewis Carroll's *Alice in Wonderland* and in works by Dostoevsky, Thomas Mann, Camus, Malraux, Unamuno, and Borges.

Sections

04413 WL 0150A H+ Alonso, Juan M. 1.0

School of Arts and Sciences

Courses Offered this Term that Satisfy Distribution Requirements

Spring 2012

Arts

View the course listings for specific sections

NOTE: if a course is listed under multiple distribution areas, it can only be used to satisfy ONE area only

Course #	Title	Course #	Title	Course #	Title
ARCH0027	CLASSICAL ARCHAEOLOGY	FAM 0021	DESIGN:INTER TO ADV	MUS 0087	EARLY MUSIC ENSEMBLE/EME
ARCH0168	ROMAN ART & ARCHAEOLOGY	FAM 0022	DESIGN:ARCHITECTURAL	MUS 0088	FLUTE ENSEMBLE
CD 0187	TEACHING/DRAMA&IMPROV	FAM 0023	DESIGN:ARCHITECTURAL ADV	MUS 0089	CHAMBER-MUSIC ENSEMBLES
CLS 0027	CLASSICAL ARCHAEOLOGY	FAM 0024	DRAWING:INTRO	MUS 0091	AFRICAN MUS EN S/KINIWE
CLS 0168	ROMAN ART & ARCHAEOLOGY	FAM 0026	DRAWING:FOUNDATION	MUS 0092	ARB MUS ENS-TUFTS TAKHT
DNC 0051	DNC MOV/CREATIVE PROCESS	FAM 0027	DRAWING:INTERM TO ADV	MUS 0093	JAVANESE GAMELAN ENSEMBL
DNC 0053	BEG MODERN DANCE	FAM 0035	FIGURE DRAWING	MUS 0095	KLEZMER ENS-JUMBO KNISH
DNC 0054	BG BALLET W/CREATIVE WRK	FAM 0039	GRAPHIC DESIGN	MUS 0097	SPECIAL TOPICS
DNC 0056	INTER BALLET W/CREAT WRK	FAM 0040	GRAPHIC DESIGN II	MUS 0102	PRIN OF TONAL THEORY II
DNC 0057	ADVANCED DANCE TECHNIQUE	FAM 0052	INTRODUCTION TO PAINTING	MUS 0104	JAZZ THEORY
DNC 0060	INTERMED HIP HOP	FAM 0053	INTRO TO PAINTING CONT'D	MUS 0109	MUSICAL SYS - ARAB WORLD
DNC 0064	KATHAK DANCE-THEATRE	FAM 0054	PAINTING:FOUNDATION	MUS 0118	SEMINAR: COMPOSITION
DNC 0066	INTERMEDIATE SALSA	FAM 0055	PAINTING:INTER TO ADV	MUS 0120	CONDUCTING
DNC 0069	WEST AFRICAN DNC COMM	FAM 0063	PERSPECTIVE DRAWING	MUS 0130	JAZZ ARRANGING/COMPOSIT
DNC 0092	SPECIAL TOPICS	FAM 0064	PHOTO:FOUNDATION	MUS 0143	HST WEST MUS (1770-PRES)
DNC 0192	ADVANCED DANCE STUDIES	FAM 0065	PHOTOGRAPHY & COMPUTER	MUS 0172	STUDIES-WEST AFRICAN MUS
DR 0004	MODERN DRAMA	FAM 0067	INTER TO ADV PHOTO	MUS 0183	STUDIES-MUSIC & TRANCE
DR 0010	ACTING I:INTRO TO ACTING	FAM 0077	SCULPTURE FOUNDATION	MUS 0185	STUDIES-WOMEN & MUSIC
DR 0012	ACTING II	FAM 0093	WATERCOLOR	MUS 0195	SENIOR RECITAL
DR 0015	MAKEUP DESIGN & APPL	FAM 0094	WATERCOLOR:INTERM TO ADV	MUS 0197	SPECIAL STUDIES
DR 0016	COSTUME TECHNOLOGY	FAM 0095	WATERCOLOR:DIRECTED STDY	MUS 0198	SPECIAL TOPICS-TUTORIALS
DR 0020	STAGE ENGINEERING	FAM 0098	ART AS FASHION	MUS 0199	SENIOR HONORS THESIS
DR 0021	COMPUTER ASSISTED DESIGN	FAM 0193	SPECIAL TOPICS	PJS 0002	ART HISTORY 1700-PRESENT
DR 0025	STAGE MANAGEMENT	FAMB0002	ANATOMY:MUSCLES	PSY 0080	PSYCHOLOGY OF MUSIC
DR 0046	INT WOMEN FILM DIRECTORS	FAMB0003	ART AS PROCESS	REL 0025	MEDIAEVAL ARCHITECTURE
DR 0048	AFRICAN AM THEATRE&FILM	FAMB0010	INTRO ADOBE ILLUSTRATOR	REL 0028	MEDIAEVAL ART MEDITERRANE
DR 0050	INTRO TO FILM STUDIES	FAMB0013	BEGINNING CERAMICS	REL 0098	MUSIC&PRAYER JEWISH TRAD
DR 0072	HOLOCAUST STAGE & SCREEN	FAMB0014	CERAMICS:WHEELTHROWING	REL 0122	ICONOCLASM&ICONOPHOBIA
DR 0080	PRACTICUM IN ACTING	FAMB0018	2 D DESIGN	REL 0124	EARLY MEDIAEVAL ART
DR 0081	PRACTICUM IN PRODUCTION	FAMB0020	BEG GRAPHIC DESIGN	REL 0125	MEDIAEVAL ARCHITECTURE
DR 0091	INDEPENDENT STUDY	FAMB0021	INTERMED GRAPHIC DESIGN	REL 0128	MEDIAEVAL ART MEDITERRANE
DR 0092	SPECIAL TOPICS	FAMB0022	PHOTO & DIGITAL PRINTMAK	REL 0142	JEWISH EXP ON FILM
DR 0094	SPECIAL TOPICS	FAMB0025	INTRO DRAWING		
DR 0125	SCENE DESIGN	FAMB0028	INTERM TO ADV DRAWING		
DR 0135	ADVANCED SCENE DESIGN	FAMB0035	INTRO TO TYPOGRAPHY		
DR 0138	THEATER & SOCIETY II	FAMB0036	INTRO TO FILMMAKING		
DR 0148	AFRICAN AM THEATRE&FILM	FAMB0037	ANIMATION:STOP MOTION		
DR 0156	DIRECTING II	FAMB0038	REALIST PAINTING		
DR 0172	HOLOCAUST STAGE & SCREEN	FAMB0043	ILLUSTRATION AN INTRO		
DR 0178	SCREENWRITING II	FAMB0045	ADOBE PHOTOSHOP		
DR 0184	PRACTICUM IN DESIGN	FAMB0047	LITHOGRAPHY		
DR 0186	PRACTICUM IN DIRECTING	FAMB0048	BEGINNING JEWELRY		
DR 0187	TEACHING/DRAMA&IMPROV	FAMB0051	INTERMEDIATE JEWELRY		
DR 0194	SPECIAL TOPICS	FAMB0059	FOUNDATION PAINTING		
DR 0199	SENIOR HONORS THESIS	FAMB0061	PAINTING:INTRMT TO ADV		
ED 0187	TEACHING/DRAMA&IMPROV	FAMB0073	PORTRAIT DRWG & PTNG		
ENG 0005	CREATIVE WRITING:FICTION	FAMB0077	PRINTMAKING:MONOPRINT		
ENG 0006	CREATIVE WRITING:POETRY	FAMB0082	GUITAR DESIGN & CONSTRUC		
ENG 0009	WRITING FICTION:INTERMED	FAMB0083	INTRO TO WEB DESIGN		
ENG 0010	NON-FICTION WRITING	FAMB0087	SCREEN PRINTING		
ENG 0013	WRITING FICTION:ADVANCED	FAMB0094	WATERCOLOR & WTR MIX MED		
ENG 0016	FORMS OF POETRY	FAMB0097	INTERMED WEB DESIGN		
FAH 0002	ART HISTORY 1700-PRESENT	FAMB0098	ART AS FASHION		
FAH 0013	THE ARTS OF CHINA	FAMB0101	SPECIAL TOPICS		
FAH 0019	CLASSICAL ARCHAEOLOGY	FAMB0102	ILLUS CHILDREN'S BOOKS		
FAH 0025	MEDIAEVAL ARCHITECTURE	FAMB0111	COLOR THEORY		
FAH 0028	MEDIAEVAL ART MEDITERRANE	FAMB0117	DRWG:ILLUSTR & REALISTS		
FAH 0034	RENAISSANCE VENICE	FAMB0121	DESIGN PORTFOLIO PREP		
FAH 0052	PICASSO TO POLLOCK	FAMB0134	DIGITAL PHOTOGRAPHY I		
FAH 0061	AMERICAN ART 1776-1900	FAMB0141	SCULPTURAL FIBER		
FAH 0070	CONTEMP ARTS OF AFRICA	FAMB0143	COMIC BOOK ART		
FAH 0081	20TH CENTURY MEXICAN ART	FAMB0146	COLOR DIGITAL PHOTO		
FAH 0086	LATINO ART & VIS CULT	FAMB0147	MAPPING DRAWING/PAINTING		
FAH 0092	SPECIAL TOPICS	GER 0057	BERTOLT BRECHT		
FAH 0098	INTEGRATIVE PROJECT SEM	ILVS0050	INTRO TO FILM STUDIES		
FAH 0106	ROMAN ART & ARCHAEOLOGY	ITAL0075	ITALIAN FILM		
FAH 0122	ICONOCLASM&ICONOPHOBIA	JS 0142	JEWISH EXP ON FILM		
FAH 0124	EARLY MEDIAEVAL ART	MUS 0001	INTRO TO WESTERN MUSIC		
FAH 0125	MEDIAEVAL ARCHITECTURE	MUS 0003	INTRO TO WORLD MUSIC		
FAH 0128	MEDIAEVAL ART MEDITERRANE	MUS 0010	INTRO MUSIC THEORY		
FAH 0134	RENAISSANCE VENICE	MUS 0012	INTRO POP MUS THEORY		
FAH 0152	PICASSO TO POLLOCK	MUS 0026	BEETHOVEN		
FAH 0161	AMERICAN ART 1776-1900	MUS 0032	COMPOSER OF THE YEAR		
FAH 0170	CONTEMP ARTS OF AFRICA	MUS 0042	HISTORY OF JAZZ		
FAH 0181	20 CENTURY MEXICAN ART	MUS 0044	HISTORY OF ROCK 'N' ROLL		
FAH 0182	INDEPENDENT STUDIES	MUS 0059	PSYCHOLOGY OF MUSIC		
FAH 0186	LATINO ART & VIS CULT	MUS 0064	COMPUTER TOOLS-MUSICIANS		
FAH 0192	SPECIAL TOPICS	MUS 0068	PRIVATE LESSONS		
FAH 0199	SENIOR HONORS THESIS	MUS 0069	TUFTS CONCERT CHOIR		
FAH 0210	SEM: ARMENIAN/BYZANT ART	MUS 0070	TUFTS CHAMBER SINGERS		
FAH 0230	SEM IN RENAISSANCE ART	MUS 0072	GOSPEL CHOIR		
FAH 0255	SEMINAR:CONTEMPORARY ART	MUS 0074	OPERA ENSEMBLE		
		MUS 0077	TUFTS JAZZ ORCHESTRA		
FAH 0260	SEMINAR:MOD AMERICAN/US	MUS 0078	JAZZ IMPROVISATION ENSEM		
FAM 0003	ART AS PROCESS	MUS 0080	TUFTS SYMPHONY		
FAM 0005	CALLIGRAPHY		ORCHESTRA		
FAM 0006	CALLIGRAPHY II	MUS 0083	UNIVERSITY WIND ENSEMBLE		
FAM 0020	DESIGN FOUNDATION	MUS 0086	NEW MUSIC ENSEMBLE/NME		

School of Arts and Sciences

Courses Offered this Term that Satisfy Distribution Requirements

Spring 2012

Humanities

View the course listings for specific sections

NOTE: if a course is listed under multiple distribution areas, it can only be used to satisfy ONE area only

Course #	Title	Course #	Title	Course #	Title
ARB 0062	MODERN ARABIC LITERATURE	HIST0054	EUROPE FROM FRENCH REV	REL 0128	MEDIEVAL ART MEDITERRANE
ARB 0063	ARABIAN NIGHTS	HIST0056	EUROPE-HIGH MIDDLE AGES	REL 0142	JEWISH EXP ON FILM
ARB 0065	ARAB TRAVEL LITERATURE	HIST0063	MODERN GERMANY	REL 0144	TANTRA
ARB 0092	SPECIAL TOPICS	HIST0071	MIDDLE EAST SINCE WW I	REL 0152	ISLAM & MODERNITY
ARB 0094	DIR STUDY: LANG OR LIT	HIST0074	MODERN ARMENIA	REL 0154	MUHAMMAD AND QUR'AN
ARB 0194	ADV DIR STDY: LANG/LIT	HIST0086	SPECIAL TOPICS: EUROPE	REL 0191	SPECIAL TOPICS
CHNS0078	YOUTH&CULTURE MOD CHINA	HIST0093	FOUND SEM:NORTH AMERICA	REL 0192	SPECIAL TOPICS
CHNS0092	SPECIAL TOPICS	HIST0094	FOUNDATION SEM:EAST ASIA	REL 0196	RELIGIONS & IR
CHNS0094	DIRECTED STUDY	HIST0096	FOUNDATION SEM : EUROPE	REL 0199	SENIOR HONORS THESIS
CHNS0192	SPECIAL TOPICS	HIST0110	RACE,CLASS,POWER-SO. AFR	RUS 0066	TOLSTOY
CHNS0194	ADVANCED DIRECTED STUDY	HIST0120	AMER MILITARY HIST -1900	RUS 0072	CONTEMP RUSSIAN CULTURE
CLS 0031	CLASSICS OF GREECE	HIST0152	REL&SPIRIT EURO 300-1500	RUS 0092	SPECIAL TOPICS
CLS 0032	CLASSICS OF ROME	HIST0154	HLTH/HEAL MEDIEVAL EUR	RUS 0094	DIRECTED STUDY: LANG/LIT
CLS 0038	HISTORY ANCIENT ROME	HIST0159	FRENCH REVOLUTION	RUS 0192	SPECIAL TOPICS
CLS 0066	TROJAN WAR&POLITIC POWER	HIST0160	FRANCE AND AFRICA	RUS 0194	ADVANCED DIRECTED STUDY
CLS 0084	SPECIAL TP:CLASSICAL LIT	HIST0162	ECON OF BRIT IND REV	RUS 0199	SENIOR HONORS THESIS
CLS 0086	SP TP:ANCIENT HISTORY	HIST0170	ADV SP TO:WRLD&TRANSRGNL	SPN 0032	MAIN CURRENT-SPN LIT II
CLS 0158	WOMEN GREEK MYTHOLOGY	HIST0175	ADV SP TPS: SOUTH ASIA	SPN 0035	SURVEY LATIN AMER LIT II
CLS 0170	INDEUROPEAN LINGUISTICS	HIST0176	ADV SP TPS: EUROPE	SPN 0092	SPECIAL TOPICS
CLS 0176	ANCIENT MEDICINE SEMINAR	HIST0190	RSRCH SEM:WRLD TRANSR HS	SPN 0094	INDEPENDENT STUDY
CLS 0183	ADV SP TP CLASSICAL LIT	HIST0191	RESEARCH SEMINAR: AFRICA	SPN 0103	LATIN AMER NOVEL
DR 0027	PUBLIC SPEAKING	HIST0196	RESEARCH SEMINAR: EUROPE	SPN 0124	SPN-ENG TRANSLATION WKSH
EC 0087	ECON OF BRIT IND REV	ILVS0065	ARAB TRAVEL LITERATURE	SPN 0142	DON QUIJOTE
ENG 0017	THE POEM	ITAL0032	READINGS ITALIAN LIT II	SPN 0150	LATIN AMER CIVILIZATION
ENG 0020	BLACK WORLD LIT	ITAL0055	THE RINASCIMENTO	SPN 0192	SPECIAL TOPICS
ENG 0032	EPIC STRAIN	ITAL0094	INDEPENDENT STUDY	SPN 0194	INDEPENDENT STUDY
ENG 0034	THE NATURE OF GOTHIC	ITAL0192	SPECIAL TOPICS	SPN 0199	HONORS THESIS
ENG 0037	20TH C AFRICAN AMER LIT	ITAL0194	INDEPENDENT STUDY	WL 0071	SCANDINAVIAN LIT
ENG 0046	GIRLS' BOOKS	ITAL0199	HONORS THESIS	WL 0150	LITERATURE OF CHAOS
ENG 0050	SHAKESPEARE I	JPN 0061	INTRO JAPANESE CULTURE	WS 0072	INTRO WOMEN STUDIES
ENG 0064	AMER FICTION 1950-PRES	JPN 0094	DIRECTED STUDY		
ENG 0074	JAZZ AGE	JPN 0114	GENDER IN JPN CULTURE		
ENG 0084	BLACK COMEDY	JPN 0115	HARUKI MURAKAMI		
ENG 0092	TOP IN LIT & CULTURE	JPN 0124	ADVAN READ JPN CULTURE		
ENG 0107	CHAUCER	JPN 0192	SPECIAL TOPICS/SEMINAR		
ENG 0108	VIRGIL AND DANTE	JPN 0194	ADVANCED DIRECTED STUDY		
ENG 0110	THE RENAISS IN ENGLAND	JPN 0199	HONORS THESIS		
ENG 0131	BRITISH MODERNISM	JS 0065	INTRO YIDDISH CULTURE		
ENG 0149	AMER LIT 1620-1815	JS 0078	JEWISH WOMEN		
ENG 0153	AMERICAN REALISM	JS 0091	LADINO LANG & CULTURE		
ENG 0160	ENV JUSTICE & U.S. LIT	JS 0092	SPECIAL TOPICS		
ENG 0161	MEMORY FOR FORGETTING	JS 0094	DIRECTED STUDY		
ENG 0163	SPEAK.MEMORY:CNTP MEMOIR	JS 0126	ROOTS JEWISH IMAGINATION		
ENG 0172	WAR & AMERICAN VALUES	JS 0194	DIRECTED STUDY		
ENG 0177	FEMINISM.LIT.THEORY	JS 0199	SENIOR HONORS THESIS		
ENG 0186	HOW FILMS THINK	LAT 0022	LATIN POETRY		
ENG 0192	SEMINAR IN ENGLISH	LAT 0026	PROSE,POETRY ROMAN MED		
ENG 0194	SPECIAL TOPICS	LAT 0102	ROMAN DRAMA		
ENG 0199	SENIOR HONORS THESIS	ML 0096	ROMANCE LINGUISTICS		
ENV 0160	ENV JUSTICE & U.S. LIT	PHIL0001	INTRO TO PHILOSOPHY		
FAH 0025	MEDIEVAL ARCHITECTURE	PHIL0006	REASONING&CRIT THINK		
FAH 0028	MEDIEVAL ART MEDITERRANE	PHIL0016	PHILOSOPHY OF RELIGION		
FAH 0122	ICONOCLASM&ICONOPHOBIA	PHIL0024	INTRO TO ETHICS		
FAH 0124	EARLY MEDIEVAL ART	PHIL0038	RATIONAL CHOICE		
FAH 0125	MEDIEVAL ARCHITECTURE	PHIL0042	WESTERN POL THOUGHT II		
FAH 0128	MEDIEVAL ART MEDITERRANE	PHIL0091	SPECIAL TOPICS		
FR 0032	READINGS IN FR LIT II	PHIL0094	HONORS THESIS		
FR 0042	LA BELLE EPOQUE	PHIL0112	SYNTACTIC THEORY		
FR 0094	INDEPENDENT STUDY	PHIL0117	PHILOSOPHY OF MIND		
FR 0125	STUDIES IN FRN CULTURE	PHIL0120	METAPHYSICS		
FR 0137	FR REN & BAROQUE POETRY	PHIL0124	BIOETHICS		
FR 0169	LES POETES MAUDITS	PHIL0133	PHILOSOPHY OF LANGUAGE		
FR 0192	SPECIAL TOPICS	PHIL0141	GLOBAL JUSTICE		
FR 0194	INDEPENDENT STUDY	PHIL0152	HIST OF MODERN PHIL		
FR 0199	HONORS THESIS	PHIL0192	SEMINARS IN PHILOSOPHY		
GER 0044	SHAPING IDENTITY:SOC&POL	PHIL0194	SPECIAL TOPICS		
GER 0057	BERTOLT BRECHT	PJS 0141	GLOBAL JUSTICE		
GER 0062	SURVEY GERMAN LIT II	PJS 0160	ENV JUSTICE & U.S. LIT		
GER 0070	GRIMMS' FAIRY TALES	PJS 0172	WAR & AMERICAN VALUES		
GER 0092	SPECIAL TOPICS	POR 0192	SP TOP/PORTUGUESE CULTRE		
GER 0094	DIRECTED STUDY	PS 0042	WESTERN POL THOUGHT II		
GER 0096	TEACHING INTERNSHIP	PSY 0151	SYNTACTIC THEORY		
GER 0170	GRIMMS' FAIRY TALES	REL 0006	PHILOSOPHY OF RELIGION		
GER 0175	EARLY 20TH CENTURY LIT	REL 0022	INTRO TO NEW TESTAMENT		
GER 0192	SPECIAL TOPICS	REL 0025	MEDIEVAL ARCHITECTURE		
GER 0194	DIRECTED STUDY	REL 0028	MEDIEVAL ART MEDITERRANE		
GER 0196	GERMAN INTERNSHIP	REL 0040	HISTORY OF REL IN AMER		
GER 0199	HONORS THESIS	REL 0044	INTRO TO HINDUISM		
GRK 0103	GREEK HISTORIANS	REL 0053	INTRO RELIGIONS OF CHINA		
HIST0010	IR: HISTORICAL PERSPECT	REL 0065	INTRO YIDDISH CULTURE		
HIST0019	MODERN LATIN AMERICA	REL 0078	JEWISH WOMEN		
HIST0029	US FOR RELAT SINCE 1900	REL 0098	MUSIC&PRAYER JEWISH TRAD		
HIST0031	HISTORY OF REL IN AMER	REL 0104	FEMINIST THEOLOGIES		
HIST0035	AFR AM POST CIVIL RGTS	REL 0106	CONTEM RELIGIOUS THOUGHT		
HIST0041	MODERN CHINA	REL 0122	ICONOCLASM&ICONOPHOBIA		
HIST0043	JAPAN SINCE 1868	REL 0124	EARLY MEDIEVAL ART		
HIST0051	HISTORY ANCIENT ROME	REL 0125	MEDIEVAL ARCHITECTURE		
HIST0053	EUROPE TO 1815	REL 0126	ROOTS JEWISH IMAGINATION		

School of Arts and Sciences

Courses Offered this Term that Satisfy Distribution Requirements

Spring 2012

Social Sciences

View the course listings for specific sections

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Course #	Title	Course #	Title	Course #	Title
AMER0012	RACE IN AMERICA	HIST0043	JAPAN SINCE 1868	SOC 0099	INTERNSHIP
AMER0186	CRTS: ISSUES IN URBAN ED	HIST0051	HISTORY ANCIENT ROME	SOC 0102	QUALITATIVE RES METHODS
ANTH0016	INTRO LATINO CULTURES	HIST0053	EUROPE TO 1815	SOC 0113	URBAN SOCIOLOGY
ANTH0020	GLOBAL CITIES	HIST0054	EUROPE FROM FRENCH REV	SOC 0130	WEALTH,POVERTY&INEQUALIT
ANTH0099	INTERNSHIP IN ANTH	HIST0056	EUROPE-HIGH MIDDLE AGES	SOC 0141	MEDICAL SOCIOLOGY
ANTH0117	CHILDREN & YOUTH AFRICA	HIST0063	MODERN GERMANY	SOC 0149	SELECTED TOPICS IN SOC
ANTH0128	MESOAMERICAN ARCHAEOLOGY	HIST0071	MIDDLE EAST SINCE WW I	SOC 0180	CITIES OF GLOBAL SOUTH
ANTH0130	ANTHROPOLOGICAL THOUGHT	HIST0074	MODERN ARMENIA	SOC 0181	SEM:WAR/PEACE/STATE/SOC
ANTH0144	POPULAR CULTURES MIDEAST	HIST0086	SPECIAL TOPICS: EUROPE	SOC 0186	SEM:INTR'NATL HEALTH POL
ANTH0163	LATINO CINEMA IMAG	HIST0093	FOUND SEM:NORTH AMERICA	SOC 0187	IMMIGRANT CHILDREN
ANTH0185	CURRENT TOPICS ANTH	HIST0094	FOUNDATION SEM:EAST ASIA	SOC 0188	SEMINAR IN CURRENT SOC
ANTH0190	DIRECTED READING ANTH	HIST0096	FOUNDATION SEM : EUROPE	SOC 0198	DIR RESEARCH SOCIOLOGY
ANTH0191	DIRECTED READING	HIST0110	RACE,CLASS,POWER-SO. AFR	SOC 0199	SENIOR HONORS THESIS
ANTH0197	DIRECTED RESEARCH	HIST0120	AMER MILITARY HIST -1900	WS 0072	INTRO WOMEN STUDIES
ANTH0198	APPRENTICESHIP ANTH RES	HIST0152	REL&SPIRIT EURO 300-1500		
ANTH0199	SENIOR HONORS THESIS	HIST0154	HLTH/HEAL MEDIEVAL EUR		
ARCH0128	MESOAMERICAN ARCHAEOLOGY	HIST0159	FRENCH REVOLUTION		
CD 0001	INTRO CHILD DEVELOPMENT	HIST0160	FRANCE AND AFRICA		
CD 0007	CHILD & EDUC PROCESS	HIST0162	ECON OF BRIT IND REV		
CD 0051	INTELL DEVEL YNG CHILD	HIST0170	ADV SP TO:WRLD&TRANSRGNL		
CD 0143	SPECIAL TOPICS	HIST0175	ADV SP TPS: SOUTH ASIA		
CD 0145	TECH TOOLS FOR LEARNING	HIST0176	ADV SP TPS: EUROPE		
CD 0161	ADV PERS & SOC DEVEL	HIST0190	RSRCH SEM:WRLD TRANSR HS		
CD 0192	APPRCH TO PROB BEHAVIOR	HIST0191	RESEARCH SEMINAR: AFRICA		
CD 0193	PEDIATRIC PSYCHOLOGY	HIST0196	RESEARCH SEMINAR: EUROPE		
CH 0002	HEALTH CARE IN AMERICA	MUS 0059	PSYCHOLOGY OF MUSIC		
CH 0182	COMM HEALTH EDUCATION	PHIL0042	WESTERN POL THOUGHT II		
CH 0186	SEM:INTR'NATL HEALTH POL	PHIL0110	BIOL FDNS OF LANGUAGE		
CLS 0038	HISTORY ANCIENT ROME	PJS 0001	INTRO PEACE/JUSTICE STDY		
CLS 0086	SP TP:ANCIENT HISTORY	PJS 0130	WEALTH,POVERTY&INEQUALIT		
CLS 0186	SEMINAR ANCIENT HISTORY	PS 0015	SO SEM: POLITICS & CITY		
EC 0005	PRINCIPLES ECONOMICS	PS 0019	SO SEM:AMER POLITICS		
EC 0006	BUSINESS LAW	PS 0021	INTRO COMPAR POL		
EC 0011	INTERMED MICROECON THRY	PS 0042	WESTERN POL THOUGHT II		
EC 0012	INTERMED MACROECON THRY	PS 0061	INTRO INTERNATIONAL REL		
EC 0016	QUANT MICROEC THEORY	PS 0099	FIELDWORK IN POLITICS		
EC 0018	QUANT INTER MACROEC THRY	PS 0102	CONGRESS,BUREAU,PUB POL		
EC 0019	REVIEW QUANT MACRO THRY	PS 0118	TOPICS IN AMER POLITICS		
EC 0024	GAME THEORY	PS 0120	SEM:POWER & POL IN CHINA		
EC 0030	ENVIRONMENTAL ECONOMICS	PS 0128	GENDER,WORK&POL E ASIA		
EC 0035	ECONOMIC DEVELOPMENT	PS 0130	SEM:AFRICAN POL ECONOMY		
EC 0048	HEALTH ECONOMICS	PS 0131	DEM & CAPITALISM JAPAN		
EC 0060	INTERNATIONAL ECON	PS 0134	COMP POLITICS MID EAST		
EC 0062	ECON INTERN'L MIGRATION	PS 0136	CONTEMP EUR POLITICS		
EC 0074	ENTREPRENEURSHIP	PS 0138	TOPICS IN COMPAR POL		
EC 0087	ECON OF BRIT IND REV	PS 0139	SEM IN COMPAR POLITICS		
EC 0116	ECON GROWTH:THRY&APPLICA	PS 0167	STUDIES WAR & EMPIRE		
EC 0118	QUANT ECON GROWTH	PS 0168	INTERNATIONAL LAW		
EC 0119	QUANT GAMES & INFO	PS 0174	RISE & FALL GREAT POWERS		
EC 0124	STATE/LOCAL PUB FINANCE	PS 0176	MIGRATION/REFUGEES/CITIZ		
EC 0130	TOPICS IN ENVIRON ECON	PS 0180	REGIONALISM IN AFRICA		
EC 0136	TOPICS IN ECONOMIC DEVEL	PS 0188	TOPICS IN INTERN'L REL		
EC 0150	FINANCIAL ECONOMICS	PS 0189	SEM IN INT'L RELATIONS		
EC 0151	MONETARY ECONOMICS	PS 0195	SEM POL SUSTAINABLE COMM		
EC 0154	METHODS IN ECON&FINANCE	PS 0199	SENIOR HONORS THESIS		
EC 0161	INTERNATIONAL TRADE	PSY 0001	INTRO TO PSYCHOLOGY		
EC 0162	INTERNATIONAL FINANCE	PSY 0011	DEVELOPMENTAL PSYCH		
EC 0169	QUANTITAT INT'L FINANCE	PSY 0012	ABNORMAL PSYCHOLOGY		
EC 0176	MULTINATIONAL ENTERPRISE	PSY 0013	SOCIAL PSYCHOLOGY		
EC 0190	INDEPENDENT STUDY	PSY 0017	INDUST/ORGANIZ PSYCH		
EC 0191	INTERMED SELECTED TOPICS	PSY 0028	COGNITIVE PSYCHOLOGY		
EC 0192	ADVANCED SEMINAR ECON	PSY 0036	EXP SOCIAL PSY		
EC 0196	SENIOR HONORS THESIS	PSY 0037	RES METH:DEV PSY		
EC 0197	SR THESIS RESEARCH SEM	PSY 0038	RES METH CLIN PSY		
EC 0198	SENIOR THESIS	PSY 0055	HUM SEXUAL BEHAVIOR		
ED 0001	SCHOOL AND SOCIETY	PSY 0056	DRUGS & BEHAVIOR		
ED 0123	PRAC OF TCHG ENGLISH	PSY 0065	PHONOLOGICAL THEORY		
ED 0161	SOCIOLOGY OF SCHOOL	PSY 0071	CLINICAL METHODS		
ED 0166	MASCULINITIES/URBAN SCHL	PSY 0080	PSYCHOLOGY OF MUSIC		
ED 0167	CRTS: ISSUES IN URBAN ED	PSY 0092	RESEARCH IN PSYCHOLOGY		
ED 0182	TECH TOOLS FOR LEARNING	PSY 0098	READINGS IN PSYCHOLOGY		
ED 0192	SPECIAL TOPICS	PSY 0099	INTERNSHIP		
ED 0212	CONCEPTUAL DISTINCTIONS	PSY 0106	SEM:CLINICAL PSYCHOLOGY		
ELS 0101	ENTREPRENEURSHIP&BUS PLN	PSY 0119	FAMILY DYNAMICS&THERAPY		
ELS 0103	ENTREPRENEURIAL FINANCE	PSY 0130	ADV ENGINEERING PSY		
ELS 0105	ENTREPRENEURIAL MKTG	PSY 0133	PSYCHOLOGY & THE LAW		
ELS 0107	ENTREPRENEURIAL LEADERSH	PSY 0149	PSYCH OF LANGUAGE		
ELS 0194	SPECIAL TOPICS	PSY 0153	BIOL FDNS OF LANGUAGE		
ELS 0199	ENTREPRENEURIAL FLDSTDY	PSY 0182	SEM:FIELDWORK		
ENV 0030	ENVIRONMENTAL ECONOMICS	PSY 0192	UNDERGRAD INDEP RESEARCH		
HIST0010	IR: HISTORICAL PERSPECT	PSY 0195	SR SEM:COGNITIVE&BRAIN S		
HIST0019	MODERN LATIN AMERICA	PSY 0196	SEMINAR IN PSYCHOLOGY		
HIST0029	US FOR RELAT SINCE 1900	PSY 0198	SUPERV READ IN SP TOP		
HIST0031	HISTORY OF REL IN AMER	PSY 0199	SENIOR HONORS THESIS		
HIST0035	AFR AM POST CIVIL RGTS	REL 0040	HISTORY OF REL IN AMER		
HIST0041	MODERN CHINA	SOC 0001	INTRO TO SOCIOLOGY		
		SOC 0020	FAMILY & INTIMATE RELATN		
		SOC 0070	IMMIGRATION		

School of Arts and Sciences

Courses Offered this Term that Satisfy Distribution Requirements

Spring 2012

Natural Sciences

View the course listings for specific sections

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Course #	Title	Course #	Title
ANTH0040	BIOLOGICAL ANTHROPOLOGY	PSY 0103	BRAIN & BEHAVIOR
ANTH0150	HUMAN EVOLUTION	PSY 0123	PSYCHOPHARMACOLOGY
AST 0006	BIG BANG TO HUMANKIND		
AST 0010	WANDERERS SPACE-EXP&DISC		
AST 0016	SPECIAL TOPICS		
AST 0112	NEW FRONTIERS ASTROPHY		
BIO 0005	NEUROANATOMY		
BIO 0006	BIG BANG TO HUMANKIND		
BIO 0010	PLANTS & HUMANITY		
BIO 0012	HUMAN REPRODUCTION & DEV		
BIO 0014	ORGANISMS&POPULAT W/LAB		
BIO 0046	CELL BIOLOGY		
BIO 0050	EXPER IN MOLECULAR BIO		
BIO 0052	EXP IN CELL BIOLOGY		
BIO 0094	INTRO TO RESEARCH		
BIO 0105	MOLECULAR BIOLOGY		
BIO 0106	MICROBIOLOGY W/LAB		
BIO 0118	PLANT PHYSIOLOGY		
BIO 0130	ANIMAL BEHAVIOR		
BIO 0131	PRIN MEDICAL IMAGING		
BIO 0134	NEUROBIOLOGY		
BIO 0144	PRIN CONSERVATION BIO		
BIO 0152	BIOCHEM & CELL METAB		
BIO 0164	MARINE BIOLOGY		
BIO 0172	BIOCHEMISTRY II		
BIO 0177	SEM:IN INFLAMMATION		
BIO 0178	SEMINAR IN IMMUNOLOGY		
BIO 0190	DNA:STRUCTURE-FUNCTION		
BIO 0194	INDEPENDENT RESEARCH		
BIO 0196	SELECTED TOPICS		
BIO 0199	SENIOR HONORS THESIS		
CD 0156	NEUROSCI & DISORDER DEV		
CH 0107	SCI & PRACTICE MEDICINE		
CHEM0001	CHEM FUNDAMENTALS W/LAB		
CHEM0002	CHEM PRINCIPLES W/LAB		
CHEM0006	BIG BANG TO HUMANKIND		
CHEM0008	ENVIRONMENTAL CHEMISTRY		
CHEM0012	GENERAL CHEMISTRY		
CHEM0016	CHEMISTRY OF MATERIALS		
CHEM0032	PHYSICAL CHEM II		
CHEM0034	PHYSICAL CHEMISTRY LAB		
CHEM0042	ANALYTICAL CHEM W/LAB		
CHEM0052	ORGANIC CHEMISTRY II		
CHEM0054	ORGANIC CHEM II LAB		
CHEM0092	RESEARCH II		
CHEM0131	STAT THERMODYNAMICS		
CHEM0144	SPECTROSCOPIC METHODS		
CHEM0152	ADV ORGANIC SYNTHESIS		
CHEM0157	MEDICINAL CHEMISTRY		
CHEM0162	CHEMISTRY TRANSITION ELM		
CHEM0172	BIOCHEMISTRY II		
CHEM0192	SEMINAR IN CHEMISTRY		
CHEM0199	SENIOR THESIS II		
ENV 0010	PLANTS & HUMANITY		
ENV 0130	ANIMAL BEHAVIOR		
ENV 0164	MARINE BIOLOGY		
GEO 0002	ENVIRON GEOLOGY W/LAB		
GEO 0022	STRUCTURAL GEO W/LAB		
GEO 0036	STRATIGRAPHY		
GEO 0092	GEOLOGICAL RESEARCH		
GEO 0104	GEO APPLICATIONS OF GIS		
GEO 0132	GROUNDWATER CHEM&QUALITY		
GEO 0194	SENIOR THESIS		
NUTR0101	HUMAN NUTRITION		
OTS 0103	NEUROANATOMY		
PHIL0168	NEWTON'S PRINCIPIA		
PHY 0002	INTRO PHYSICS II W/LAB		
PHY 0002	INTRO TO PHYSICS II W/LA		
PHY 0006	PHYSICS FOR HUMANISTS		
PHY 0011	GENERAL PHYSICS I W/LAB		
PHY 0012	GENERAL PHYSICS II W/LAB		
PHY 0016	SPECIAL TOPICS		
PHY 0025	BIOPHYSICS		
PHY 0041	ELECTRONICS		
PHY 0052	THERMAL PHYSICS		
PHY 0064	EXPERMTL MODERN PHYSICS		
PHY 0096	SENIOR THESIS		
PHY 0146	ELECTROMAG THEORY II		
PHY 0153	STATISTICAL MECHANICS		
PHY 0164	QUANTUM PHYSICS II		
PHY 0192	PHYSICS SEMINAR		
PHY 0194	SELECTED TOPICS		
PSY 0009	INTRO COGNITIV&BRAIN SCI		
PSY 0029	HUMAN NEUROPSYCHOLOGY		
PSY 0032	EXPERIMENTAL PSYCHOLOGY		
PSY 0048	PSYCHOPHARM LAB		
PSY 0049	LAB:PSYCHOPHYSIOLOGY		

School of Arts and Sciences

Courses Offered this Term that Satisfy Distribution Requirements Spring 2012

Mathematics

View the course listings for specific sections

NOTE: if a course is listed under multiple distribution areas, it can only be used to satisfy ONE area only

Course #	Title
CD 0140	PROBS RESRCH:STATISTICS
COMP0010	VARIOUS TOPICS COMP SCI
COMP0011	INTRO COMPUTER SCIENCE
COMP0015	DATA STRUCTURES
COMP0022	DISCRETE MATHEMATICS
COMP0050	SPECIAL TOPICS
COMP0105	PROGRAMMING LANGUAGES
COMP0116	COMPUTER SYSTEM SECURITY
COMP0128	NUMERICAL LINEAR ALGEBRA
COMP0131	ARTIFICIAL INTELLIGENCE
COMP0150	SPECIAL TOPICS
COMP0160	ALGORITHMS
COMP0170	COMPUTATION THEORY
COMP0171	HUMAN COMPUTER INTERACTN
COMP0190	SENIOR DESIGN PROJECT
COMP0193	DIRECTED STUDY
COMP0194	DIRECTED STUDY
COMP0197	HONORS THESIS-COMP SCI
EC 0013	STATISTICS
EC 0015	BASIC ECONOMETRICS
EC 0107	ECONOMETRIC ANALYSIS
MATH0005	INTRO TO CALCULUS
MATH0006	INTRO TO FINITE MATH
MATH0007	MATHEMATICS IN ANTIQUITY
MATH0008	SYMMETRY
MATH0009	MATH OF SOCIAL CHOICE
MATH0010	INTRO SPECIAL TOPICS
MATH0011	CALCULUS I
MATH0012	CALCULUS II
MATH0013	CALCULUS III
MATH0018	HONORS CALCULUS III
MATH0022	DISCRETE MATHEMATICS
MATH0038	DIFFERENTIAL EQUATIONS
MATH0041	NUMBER THEORY
MATH0046	LINEAR ALGEBRA
MATH0050	SPECIAL TOPICS
MATH0054	ABSTRACT LINEAR ALGEBRA
MATH0128	NUMERICAL LINEAR ALGEBRA
MATH0136	REAL ANALYSIS II
MATH0146	ABSTRACT ALGEBRA II
MATH0150	ADVANCED SPECIAL TOPICS
MATH0151	APPL OF ADVANCED CALC
MATH0158	COMPLEX VARIABLES
MATH0162	STATISTICS
MATH0167	DIFFERENTIAL GEOMETRY
MATH0196	SENIOR HONORS THESIS
PHIL0033	LOGIC
PHIL0170	COMPUTATION THEORY
PSY 0031	STATS FOR BEHAV SCI
PSY 0108	ADV STATISTICS II
SOC 0101	QUANT RESEARCH METHODS

School of Arts and Sciences

Courses Offered this Term that Satisfy Culture Options Spring 2012

View the course listings for specific sections

African and African-American Culture

Course #	Title
ANTH0117	CHILDREN & YOUTH AFRICA
DNC 0069	WEST AFRICAN DNC COMM
DR 0048	AFRICAN AM THEATRE& FILM
DR 0148	AFRICAN AM THEATER&FILM
ENG 0020	BLACK WORLD LIT
ENG 0037	20TH C AFRICAN AMER LIT
ENG 0161	MEMORY FOR FORGETTING
FAH 0070	CONTEMP ARTS OF AFRICA
FAH 0170	CONTEMP ARTS OF AFRICA
HIST0035	AFR AM POST CIVIL RGTS
HIST0110	RACE,CLASS,POWER-SO. AFR
HIST0191	RESEARCH SEMINAR: AFRICA
MUS 0042	HISTORY OF JAZZ
MUS 0072	GOSPEL CHOIR
MUS 0091	AFRICAN MUS ENS/KINIWE
MUS 0172	STUDIES-WEST AFRICAN MUS
PS 0015	SO SEM: POLITICS & CITY
PS 0130	SEM:AFRICAN POL ECONOMY
PS 0180	REGIONALISM IN AFRICA

Classical Culture

Course #	Title
ARCH0027	CLASSICAL ARCHAEOLOGY
ARCH0168	ROMAN ART & ARCHAEOLOGY
ARCH0190	MATERIALS IN ARCH & ANTH
CLS 0027	CLASSICAL ARCHAEOLOGY
CLS 0031	CLASSICS OF GREECE
CLS 0032	CLASSICS OF GREECE
CLS 0038	CLASSICS OF ROME
CLS 0038	HISTORY ANCIENT ROME
CLS 0066	TROJAN WAR&POLITIC POWER
CLS 0084	SPECIAL TP:CLASSICAL LIT
CLS 0086	SP TP:ANCIENT HISTORY
CLS 0092	SP&INDP STUDIES:CLASSICS
CLS 0158	WOMEN GREEK MYTHOLOGY
CLS 0168	ROMAN ART & ARCHAEOLOGY
CLS 0176	ANCIENT MEDICINE SEMINAR
CLS 0183	ADV SP TP CLASSICAL LIT
CLS 0186	SEMINAR ANCIENT HISTORY
FAH 0019	CLASSICAL ARCHAEOLOGY
FAH 0106	ROMAN ART & ARCHAEOLOGY
HIST0051	HISTORY ANCIENT ROME

East Asian Culture and Diasporas

Course #	Title
CHNS0078	YOUTH&CULTURE MOD CHINA
CHNS0092	SPECIAL TOPICS
CHNS0192	SPECIAL TOPICS
FAH 0013	THE ARTS OF CHINA
HIST0041	MODERN CHINA
HIST0043	JAPAN SINCE 1868
JPN 0061	INTRO JAPANESE CULTURE
JPN 0114	GENDER IN JPN CULTURE
JPN 0115	HARUKI MURAKAMI
JPN 0192	SPECIAL TOPICS/SEMINAR
PS 0120	SEM:POWER & POL IN CHINA
PS 0128	GENDER,WORK&POL E ASIA
PS 0131	DEM & CAPITALISM JAPAN
REL 0053	INTRO RELIGIONS OF CHINA

French Culture

Course #	Title
FAH 0025	MEDIEVAL ARCHITECTURE
FAH 0125	MEDIEVAL ARCHITECTURE
FR 0042	LA BELLE EPOQUE
FR 0094	INDEPENDENT STUDY
HIST0056	EUROPE-HIGH MIDDLE AGES
HIST0159	FRENCH REVOLUTION
HIST0160	FRANCE AND AFRICA
REL 0025	MEDIEVAL ARCHITECTURE
REL 0125	MEDIEVAL ARCHITECTURE
WL 0150	LITERATURE OF CHAOS

Germanic Culture

Course #	Title
FAH 0124	EARLY MEDIEVAL ART
GER 0044	SHAPING IDENTITY:SOC&POL
GER 0057	BERTOLT BRECHT
GER 0062	SURVEY GERMAN LIT II
GER 0070	GRIMMS' FAIRY TALES
GER 0092	SPECIAL TOPICS
GER 0170	GRIMMS' FAIRY TALES
HIST0063	MODERN GERMANY
MUS 0026	BEETHOVEN
MUS 0143	HST WEST MUS (1770-PRES)
REL 0124	EARLY MEDIEVAL ART

Hispanic Culture and Diasporas

Course #	Title
ANTH0016	INTRO LATINO CULTURES
ANTH0128	MESOAMERICAN ARCHAEOLOGY
ANTH0163	LATINO CINEMA IMAG
ARCH0128	MESOAMERICAN ARCHAEOLOGY
DNC 0066	INTERMEDIATE SALSA
FAH 0081	20TH CENTURY MEXICAN ART
FAH 0086	LATINO ART & VIS CULT
FAH 0181	20 CENTURY MEXICAN ART
FAH 0186	LATINO ART & VIS CULT
HIST0019	MODERN LATIN AMERICA
JS 0091	LADINO LANG & CULTURE
ML 0096	ROMANCE LINGUISTICS
SPN 0029	LATINO WRIT EXPERIENCE
SPN 0092	SPECIAL TOPICS
SPN 0150	LATIN AMER CIVILIZATION
WL 0150	LITERATURE OF CHAOS

Italian Culture

Course #	Title
ARCH0027	CLASSICAL ARCHAEOLOGY
ARCH0168	ROMAN ART & ARCHAEOLOGY
CLS 0027	CLASSICAL ARCHAEOLOGY
CLS 0032	CLASSICS OF ROME
CLS 0038	HISTORY ANCIENT ROME
CLS 0168	ROMAN ART & ARCHAEOLOGY
ENG 0108	VIRGIL AND DANTE
FAH 0019	CLASSICAL ARCHAEOLOGY
FAH 0034	RENAISSANCE VENICE
FAH 0106	ROMAN ART & ARCHAEOLOGY
FAH 0134	RENAISSANCE VENICE
HIST0051	HISTORY ANCIENT ROME
ITAL0032	READINGS ITALIAN LIT II
ITAL0055	THE RINASCIMENTO
ITAL0075	ITALIAN FILM
MUS 0001	INTRO TO WESTERN MUSIC

Judaic Culture

Course #	Title
DR 0172	HOLOCAUST STAGE & SCREEN
HIST0071	MIDDLE EAST SINCE WW I
JS 0065	INTRO YIDDISH CULTURE
JS 0078	JEWISH WOMEN
JS 0091	LADINO LANG & CULTURE
JS 0092	SPECIAL TOPICS
JS 0126	ROOTS JEWISH IMAGINATION
JS 0142	JEWISH EXP ON FILM
MUS 0095	KLEZMER ENS-JUMBO KNISH
REL 0065	INTRO YIDDISH CULTURE
REL 0078	JEWISH WOMEN
REL 0098	MUSIC&PRAYER JEWISH TRAD
REL 0126	ROOTS JEWISH IMAGINATION
REL 0142	JEWISH EXP ON FILM

Middle Eastern Culture

Course #	Title
ANTH0144	POPULAR CULTURES MIDEAST
ARB 0062	MODERN ARABIC LITERATURE
ARB 0063	ARABIAN NIGHTS

ARB 0065	ARAB TRAVEL LITERATURE
ARB 0092	SPECIAL TOPICS
FAH 0028	MEDIEVAL ART MEDITERRANE
FAH 0128	MEDIEVAL ART MEDITERRANE
HIST0071	MIDDLE EAST SINCE WW I
ILVS0065	ARAB TRAVEL LITERATURE
MUS 0092	ARB MUS ENS-TUFTS TAKHT
MUS 0109	MUSICAL SYS - ARAB WORLD
PS 0134	COMP POLITICS MID EAST
REL 0028	MEDIEVAL ART MEDITERRANE
REL 0128	MEDIEVAL ART MEDITERRANE
REL 0152	ISLAM & MODERNITY
REL 0154	MUHAMMAD AND QUR'AN

Native American Culture

Course #	Title
ANTH0128	MESOAMERICAN ARCHAEOLOGY
ARCH0128	MESOAMERICAN ARCHAEOLOGY

Russian Culture

Course #	Title
RUS 0066	TOLSTOY
RUS 0072	CONTEMP RUSSIAN CULTURE
RUS 0092	SPECIAL TOPICS
CD 0124	AMERICAN SIGN LANGUAGE
CD 0125	AMERICAN SIGN LANG II
CD 0126	AMERICAN SIGN LANG III

South and Southeast Asian Culture

Course #	Title
DNC 0064	KATHAK DANCE-THEATRE
HIST0175	ADV SP TPS: SOUTH ASIA
MUS 0093	JAVANESE GAMELAN ENSEMBL
REL 0044	INTRO TO HINDUISM
REL 0144	TANTRA
REL 0152	ISLAM & MODERNITY

School of Arts and Sciences

Courses Offered this Term that Satisfy World Civilization Requirements Spring 2012

View the course listings for specific sections

Course #	Title
ANTH0117	CHILDREN & YOUTH AFRICA
ANTH0128	MESOAMERICAN ARCHAEOLOGY
ANTH0144	POPULAR CULTURES MIDEAST
ARB 0062	MODERN ARABIC LITERATURE
ARB 0063	ARABIAN NIGHTS
ARB 0065	ARAB TRAVEL LITERATURE
ARB 0092	SPECIAL TOPICS
ARCH0128	MESOAMERICAN ARCHAEOLOGY
CHNS0078	YOUTH&CULTURE MOD CHINA
CHNS0092	SPECIAL TOPICS
CHNS0094	DIRECTED STUDY
CHNS0192	SPECIAL TOPICS
CHNS0194	ADVANCED DIRECTED STUDY
DNC 0064	KATHAK DANCE-THEATRE
DNC 0066	INTERMEDIATE SALSA
DNC 0069	WEST AFRICAN DNC COMM
ENG 0020	BLACK WORLD LIT
FAH 0013	THE ARTS OF CHINA
FAH 0070	CONTEMP ARTS OF AFRICA
FAH 0081	20TH CENTURY MEXICAN ART
FAH 0086	LATINO ART & VIS CULT
FAH 0170	CONTEMP ARTS OF AFRICA
FAH 0181	20 CENTURY MEXICAN ART
FAH 0186	LATINO ART & VIS CULT
HIST0019	MODERN LATIN AMERICA
HIST0041	MODERN CHINA
HIST0043	JAPAN SINCE 1868
HIST0071	MIDDLE EAST SINCE WW I
HIST0074	MODERN ARMENIA
HIST0110	RACE,CLASS,POWER-SO. AFR
HIST0175	ADV SP TPS: SOUTH ASIA
HIST0191	RESEARCH SEMINAR: AFRICA
ILVS0065	ARAB TRAVEL LITERATURE
JPN 0061	INTRO JAPANESE CULTURE
JPN 0094	DIRECTED STUDY
JPN 0115	HARUKI MURAKAMI
JPN 0192	SPECIAL TOPICS/SEMINAR
JPN 0194	ADVANCED DIRECTED STUDY
MUS 0003	INTRO TO WORLD MUSIC
MUS 0091	AFRICAN MUS ENS/KINIWE
MUS 0092	ARB MUS ENS-TUFTS TAKHT
MUS 0093	JAVANESE GAMELAN ENSEMBL
MUS 0109	MUSICAL SYS - ARAB WORLD
MUS 0172	STUDIES-WEST AFRICAN MUS
MUS 0183	STUDIES-MUSIC & TRANCE
MUS 0185	STUDIES-WOMEN & MUSIC
PS 0120	SEM:POWER & POL IN CHINA
PS 0128	GENDER,WORK&POL E ASIA
PS 0130	SEM:AFRICAN POL ECONOMY
PS 0131	DEM & CAPITALISM JAPAN
PS 0134	COMP POLITICS MID EAST
PS 0180	REGIONALISM IN AFRICA
REL 0044	INTRO TO HINDUISM
REL 0053	INTRO RELIGIONS OF CHINA
REL 0144	TANTRA
REL 0152	ISLAM & MODERNITY
REL 0154	MUHAMMAD AND QUR'AN
REL 0196	RELIGIONS & IR
SPN 0035	SURVEY LATIN AMER LIT II
SPN 0103	LATIN AMER NOVEL
SPN 0150	LATIN AMER CIVILIZATION

School of Engineering

Accepted Humanities/Arts/Social Sciences Courses Offered this Term

Spring 2012

Arts

View the course listings for specific sections

Course #	Title	Course #	Title	Course #	Title
ARCH0027	CLASSICAL ARCHAEOLOGY	FAM 0022	DESIGN:ARCHITECTURAL	MUS 0089	CHAMBER-MUSIC ENSEMBLES
ARCH0168	ROMAN ART & ARCHAEOLOGY	FAM 0023	DESIGN:ARCHITECTURAL ADV	MUS 0091	AFRICAN MUS ENS/KINIWE
CD 0187	TEACHING/DRAMA&IMPROV	FAM 0024	DRAWING:INTRO	MUS 0092	ARB MUS ENS-TUFTS TAKHT
CLS 0027	CLASSICAL ARCHAEOLOGY	FAM 0026	DRAWING:FOUNDATION	MUS 0093	JAVANESE GAMELAN ENSEMBL
CLS 0168	ROMAN ART & ARCHAEOLOGY	FAM 0027	DRAWING:INTERM TO ADV	MUS 0095	KLEZMER ENS-JUMBO KNISH
DNC 0051	DNC MOV/CREATIVE PROCESS	FAM 0035	FIGURE DRAWING	MUS 0097	SPECIAL TOPICS
DNC 0053	BEG MODERN DANCE	FAM 0039	GRAPHIC DESIGN	MUS 0102	PRIN OF TONAL THEORY II
DNC 0054	BG BALLET W/CREATIVE WRK	FAM 0040	GRAPHIC DESIGN II	MUS 0104	JAZZ THEORY
DNC 0056	INTER BALLET W/CREAT WRK	FAM 0052	INTRODUCTION TO PAINTING	MUS 0109	MUSICAL SYS - ARAB WORLD
DNC 0057	ADVANCED DANCE TECHNIQUE	FAM 0053	INTRO TO PAINTING CONT'D	MUS 0118	SEMINAR: COMPOSITION
DNC 0060	INTERMED HIP HOP	FAM 0054	PAINTING:FOUNDATION	MUS 0120	CONDUCTING
DNC 0064	KATHAK DANCE-THEATRE	FAM 0055	PAINTING:INTER TO ADV	MUS 0130	JAZZ ARRANGING/COMPOSIT
DNC 0066	INTERMEDIATE SALSA	FAM 0063	PERSPECTIVE DRAWING	MUS 0143	HST WEST MUS (1770-PRES)
DNC 0069	WEST AFRICAN DNC COMM	FAM 0064	PHOTO:FOUNDATION	MUS 0172	STUDIES-WEST AFRICAN MUS
DNC 0092	SPECIAL TOPICS	FAM 0065	PHOTOGRAPHY & COMPUTER	MUS 0183	STUDIES-MUSIC & TRANCE
DNC 0192	ADVANCED DANCE STUDIES	FAM 0067	INTER TO ADV PHOTO	MUS 0185	STUDIES-WOMEN & MUSIC
DR 0004	MODERN DRAMA	FAM 0077	SCULPTURE FOUNDATION	MUS 0195	SENIOR RECITAL
DR 0010	ACTING I:INTRO TO ACTING	FAM 0093	WATERCOLOR	MUS 0197	SPECIAL STUDIES
DR 0012	ACTING II	FAM 0094	WATERCOLOR:INTERM TO ADV	MUS 0198	SPECIAL TOPICS-TUTORIALS
DR 0015	MAKEUP DESIGN & APPL	FAM 0095	WATERCOLOR:DIRECTED STDY	MUS 0199	SENIOR HONORS THESIS
DR 0016	COSTUME TECHNOLOGY	FAM 0098	ART AS FASHION	PJS 0002	ART HISTORY 1700-PRESENT
DR 0020	STAGE ENGINEERING	FAM 0193	SPECIAL TOPICS	PSY 0080	PSYCHOLOGY OF MUSIC
DR 0021	COMPUTER ASSISTED DESIGN	FAMB0002	ANATOMY:MUUSCLES	REL 0025	MEDIAEVAL ARCHITECTURE
DR 0025	STAGE MANAGEMENT	FAMB0003	ART AS PROCESS	REL 0028	MEDIAEVAL ART MEDITERRANE
DR 0046	INT WOMEN FILM DIRECTORS	FAMB0010	INTRO ADOBE ILLUSTRATOR	REL 0098	MUSIC&PRAYER JEWISH TRAD
DR 0048	AFRICAN AM THEATRE& FILM	FAMB0013	BEGINNING CERAMICS	REL 0122	ICONOCLASM&ICONOPHOBIA
DR 0050	INTRO TO FILM STUDIES	FAMB0014	CERAMICS:WHEELTHROWING	REL 0124	EARLY MEDIAEVAL ART
DR 0072	HOLOCAUST STAGE & SCREEN	FAMB0018	2 D DESIGN	REL 0125	MEDIAEVAL ARCHITECTURE
DR 0080	PRACTICUM IN ACTING	FAMB0020	BEG GRAPHIC DESIGN	REL 0128	MEDIAEVAL ART MEDITERRANE
DR 0081	PRACTICUM IN PRODUCTION	FAMB0021	INTERMED GRAPHIC DESIGN		JEWISH EXP ON FILM
DR 0091	INDEPENDENT STUDY	FAMB0022	PHOTO & DIGITAL PRINTMAK		
DR 0092	SPECIAL TOPICS	FAMB0025	INTRO DRAWING		
DR 0094	SPECIAL TOPICS	FAMB0028	INTERM TO ADV DRAWING		
DR 0125	SCENE DESIGN	FAMB0035	INTRO TO TYPOGRAPHY		
DR 0135	ADVANCED SCENE DESIGN	FAMB0036	INTRO TO FILMMAKING		
DR 0138	THEATER & SOCIETY II	FAMB0037	ANIMATION:STOP MOTION		
DR 0148	AFRICAN AM THEATER&FILM	FAMB0038	REALIST PAINTING		
DR 0156	DIRECTING II	FAMB0043	ILLUSTRATION AN INTRO		
DR 0172	HOLOCAUST STAGE & SCREEN	FAMB0045	ADOBE PHOTOSHOP		
DR 0178	SCREENWRITING II	FAMB0047	LITHOGRAPHY		
DR 0184	PRACTICUM IN DESIGN	FAMB0048	BEGINNING JEWELRY		
DR 0186	PRACTICUM IN DIRECTING	FAMB0051	INTERMEDIATE JEWELRY		
DR 0187	TEACHING/DRAMA&IMPROV	FAMB0059	FOUNDATION PAINTING		
DR 0194	SPECIAL TOPICS	FAMB0061	PAINTING:INTRMT TO ADV		
DR 0199	SENIOR HONORS THESIS	FAMB0073	PORTRAIT DRWG & PTNG		
ED 0187	TEACHING/DRAMA&IMPROV	FAMB0077	PRINTMAKING:MONOPRINT		
ENG 0005	CREATIVE WRITING:FICTION	FAMB0082	GUITAR DESIGN & CONSTRUC		
ENG 0006	CREATIVE WRITING:POETRY	FAMB0083	INTRO TO WEB DESIGN		
ENG 0009	WRITING FICTION:INTERMED	FAMB0087	SCREEN PRINTING		
ENG 0010	NON-FICTION WRITING	FAMB0094	WATERCOLOR & WTR MIX MED		
ENG 0013	WRITING FICTION:ADVANCED	FAMB0097	INTERMED WEB DESIGN		
ENG 0016	FORMS OF POETRY	FAMB0098	ART AS FASHION		
FAH 0002	ART HISTORY 1700-PRESENT	FAMB0101	SPECIAL TOPICS		
FAH 0013	THE ARTS OF CHINA	FAMB0102	ILLUS CHILDREN'S BOOKS		
FAH 0019	CLASSICAL ARCHAEOLOGY	FAMB0111	COLOR THEORY		
FAH 0025	MEDIAEVAL ARCHITECTURE	FAMB0117	DRWG:ILLUSTR & REALISTS		
FAH 0028	MEDIAEVAL ART MEDITERRANE	FAMB0121	DESIGN PORTFOLIO PREP		
FAH 0034	RENAISSANCE VENICE	FAMB0134	DIGITAL PHOTOGRAPHY I		
FAH 0052	PICASSO TO POLLOCK	FAMB0141	SCULPTURAL FIBER		
FAH 0061	AMERICAN ART 1776-1900	FAMB0143	COMIC BOOK ART		
FAH 0070	CONTEMP ARTS OF AFRICA	FAMB0146	COLOR DIGITAL PHOTO		
FAH 0081	20TH CENTURY MEXICAN ART	FAMB0147	MAPPING DRAWING/PAINTING		
FAH 0086	LATINO ART & VIS CULT	GER 0057	BERTOLT BRECHT		
FAH 0092	SPECIAL TOPICS	ILVS0050	INTRO TO FILM STUDIES		
FAH 0098	INTEGRATIVE PROJECT SEM	ITAL0075	ITALIAN FILM		
FAH 0106	ROMAN ART & ARCHAEOLOGY	JS 0142	JEWISH EXP ON FILM		
FAH 0122	ICONOCLASM&ICONOPHOBIA	MUS 0001	INTRO TO WESTERN MUSIC		
FAH 0124	EARLY MEDIAEVAL ART	MUS 0003	INTRO TO WORLD MUSIC		
FAH 0125	MEDIAEVAL ARCHITECTURE	MUS 0010	INTRO MUSIC THEORY		
FAH 0128	MEDIAEVAL ART MEDITERRANE	MUS 0012	INTRO POP MUS THEORY		
FAH 0134	RENAISSANCE VENICE	MUS 0026	BEETHOVEN		
FAH 0152	PICASSO TO POLLOCK	MUS 0032	COMPOSER OF THE YEAR		
FAH 0161	AMERICAN ART 1776-1900	MUS 0042	HISTORY OF JAZZ		
FAH 0170	CONTEMP ARTS OF AFRICA	MUS 0044	HISTORY OF ROCK 'N' ROLL		
FAH 0181	20 CENTURY MEXICAN ART	MUS 0059	PSYCHOLOGY OF MUSIC		
FAH 0182	INDEPENDENT STUDIES	MUS 0064	COMPUTER TOOLS-MUSICIANS		
FAH 0186	LATINO ART & VIS CULT	MUS 0068	PRIVATE LESSONS		
FAH 0192	SPECIAL TOPICS	MUS 0069	TUFTS CONCERT CHOIR		
FAH 0199	SENIOR HONORS THESIS	MUS 0070	TUFTS CHAMBER SINGERS		
FAH 0210	SEM: ARMENIAN/BYZANT ART	MUS 0072	GOSPEL CHOIR		
FAH 0230	SEM IN RENAISSANCE ART	MUS 0074	OPERA ENSEMBLE		
FAH 0255	SEMINAR:CONTEMPORARY ART	MUS 0077	TUFTS JAZZ ORCHESTRA		
		MUS 0078	JAZZ IMPROVISATION ENSEM		
FAH 0260	SEMINAR:MOD AMERICAN/US	MUS 0080	TUFTS SYMPHONY		
FAM 0003	ART AS PROCESS		ORCHESTRA		
FAM 0005	CALLIGRAPHY	MUS 0083	UNIVERSITY WIND ENSEMBLE		
FAM 0006	CALLIGRAPHY II	MUS 0086	NEW MUSIC ENSEMBLE/NME		
FAM 0020	DESIGN FOUNDATION	MUS 0087	EARLY MUSIC ENSEMBLE/EME		
FAM 0021	DESIGN:INTER TO ADV	MUS 0088	FLUTE ENSEMBLE		

School of Engineering

Accepted Humanities/Arts/Social Sciences Courses Offered this Term

Spring 2012

Humanities

View the course listings for specific sections

Course #	Title	Course #	Title	Course #	Title
ARB 0062	MODERN ARABIC LITERATURE	HIST0056	EUROPE-HIGH MIDDLE AGES	REL 0144	TANTRA
ARB 0063	ARABIAN NIGHTS	HIST0063	MODERN GERMANY	REL 0152	ISLAM & MODERNITY
ARB 0065	ARAB TRAVEL LITERATURE	HIST0071	MIDDLE EAST SINCE WW I	REL 0154	MUHAMMAD AND QUR'AN
ARB 0092	SPECIAL TOPICS	HIST0074	MODERN ARMENIA	REL 0191	SPECIAL TOPICS
ARB 0094	DIR STUDY: LANG OR LIT	HIST0086	SPECIAL TOPICS: EUROPE	REL 0192	SPECIAL TOPICS
ARB 0194	ADV DIR STDY: LANG/LIT	HIST0093	FOUND SEM:NORTH AMERICA	REL 0196	RELIGIONS & IR
CHNS0078	YOUTH&CULTURE MOD CHINA	HIST0094	FOUNDATION SEM:EAST ASIA	REL 0199	SENIOR HONORS THESIS
CHNS0092	SPECIAL TOPICS	HIST0096	FOUNDATION SEM : EUROPE	RUS 0066	TOLSTOY
CHNS0094	DIRECTED STUDY	HIST0110	RACE, CLASS, POWER-SO. AFR	RUS 0072	CONTEMP RUSSIAN CULTURE
CHNS0192	SPECIAL TOPICS	HIST0120	AMER MILITARY HIST -1900	RUS 0092	SPECIAL TOPICS
CHNS0194	ADVANCED DIRECTED STUDY	HIST0152	REL&SPIRIT EURO 300-1500	RUS 0094	DIRECTED STUDY: LANG/LIT
CLS 0031	CLASSICS OF GREECE	HIST0154	HLTH/HEAL MEDIEVAL EUR	RUS 0192	SPECIAL TOPICS
CLS 0032	CLASSICS OF ROME	HIST0159	FRENCH REVOLUTION	RUS 0194	ADVANCED DIRECTED STUDY
CLS 0038	HISTORY ANCIENT ROME	HIST0160	FRANCE AND AFRICA	RUS 0199	SENIOR HONORS THESIS
CLS 0066	TROJAN WAR&POLITIC POWER	HIST0162	ECON OF BRIT IND REV	SPN 0032	MAIN CURRENT-SPN LIT II
CLS 0084	SPECIAL TP:CLASSICAL LIT	HIST0170	ADV SP TO:WRLD&TRANSRGNL	SPN 0035	SURVEY LATIN AMER LIT II
CLS 0086	SP TP:ANCIENT HISTORY	HIST0175	ADV SP TPS: SOUTH ASIA	SPN 0092	SPECIAL TOPICS
CLS 0158	WOMEN GREEK MYTHOLOGY	HIST0176	ADV SP TPS: EUROPE	SPN 0094	INDEPENDENT STUDY
CLS 0170	INDOEUROPEAN LINGUISTICS	HIST0190	RSRCH SEM:WRLD TRANS HS	SPN 0103	LATIN AMER NOVEL
CLS 0176	ANCIENT MEDICINE SEMINAR	HIST0191	RESEARCH SEMINAR: AFRICA	SPN 0124	SPN-ENG TRANSLATION WKSH
CLS 0183	ADV SP TP CLASSICAL LIT	HIST0196	RESEARCH SEMINAR: EUROPE	SPN 0142	DON QUIJOTE
DR 0027	PUBLIC SPEAKING	ILVS0065	ARAB TRAVEL LITERATURE	SPN 0150	LATIN AMER CIVILIZATION
EC 0087	ECON OF BRIT IND REV	ITAL0032	READINGS ITALIAN LIT II	SPN 0192	SPECIAL TOPICS
ENG 0017	THE POEM	ITAL0055	THE RINASCIMENTO	SPN 0194	INDEPENDENT STUDY
ENG 0020	BLACK WORLD LIT	ITAL0094	INDEPENDENT STUDY	SPN 0199	HONORS THESIS
ENG 0032	EPIC STRAIN	ITAL0192	SPECIAL TOPICS	WL 0071	SCANDINAVIAN LIT
ENG 0034	THE NATURE OF GOTHIC	ITAL0194	INDEPENDENT STUDY	WL 0150	LITERATURE OF CHAOS
ENG 0037	20TH C AFRICAN AMER LIT	ITAL0199	HONORS THESIS	WS 0072	INTRO WOMEN STUDIES
ENG 0046	GIRLS' BOOKS	JPN 0061	INTRO JAPANESE CULTURE		
ENG 0050	SHAKESPEARE I	JPN 0094	DIRECTED STUDY		
ENG 0064	AMER FICTION 1950-PRES	JPN 0114	GENDER IN JPN CULTURE		
ENG 0074	JAZZ AGE	JPN 0115	HARUKI MURAKAMI		
ENG 0084	BLACK COMEDY	JPN 0124	ADVAN READ JPN CULTURE		
ENG 0092	TOP IN LIT & CULTURE	JPN 0192	SPECIAL TOPICS/SEMINAR		
ENG 0107	CHAUCER	JPN 0194	ADVANCED DIRECTED STUDY		
ENG 0108	VIRGIL AND DANTE	JPN 0199	HONORS THESIS		
ENG 0110	THE RENAISS IN ENGLAND	JS 0065	INTRO YIDDISH CULTURE		
ENG 0131	BRITISH MODERNISM	JS 0078	JEWISH WOMEN		
ENG 0149	AMER LIT 1620-1815	JS 0091	LADINO LANG & CULTURE		
ENG 0153	AMERICAN REALISM	JS 0092	SPECIAL TOPICS		
ENG 0160	ENV JUSTICE & U.S. LIT	JS 0094	DIRECTED STUDY		
ENG 0161	MEMORY FOR FORGETTING	JS 0126	ROOTS JEWISH IMAGINATION		
ENG 0163	SPEAK, MEMORY: CNTP MEMOIR	JS 0194	DIRECTED STUDY		
ENG 0172	WAR & AMERICAN VALUES	JS 0199	SENIOR HONORS THESIS		
ENG 0177	FEMINISM, LIT, THEORY	LAT 0022	LATIN POETRY		
ENG 0186	HOW FILMS THINK	LAT 0026	PROSE, POETRY ROMAN MED		
ENG 0192	SEMINAR IN ENGLISH	LAT 0102	ROMAN DRAMA		
ENG 0194	SPECIAL TOPICS	ML 0096	ROMANCE LINGUISTICS		
ENG 0199	SENIOR HONORS THESIS	PHIL0001	INTRO TO PHILOSOPHY		
ENV 0160	ENV JUSTICE & U.S. LIT	PHIL0006	REASONING&CRIT THINK		
FAH 0025	MEDIEVAL ARCHITECTURE	PHIL0016	PHILOSOPHY OF RELIGION		
FAH 0028	MEDIEVAL ART MEDITERRANE	PHIL0024	INTRO TO ETHICS		
FAH 0122	ICONOCLASM&ICONOPHOBIA	PHIL0038	RATIONAL CHOICE		
FAH 0124	EARLY MEDIEVAL ART	PHIL0042	WESTERN POL THOUGHT II		
FAH 0125	MEDIEVAL ARCHITECTURE	PHIL0091	SPECIAL TOPICS		
FAH 0128	MEDIEVAL ART MEDITERRANE	PHIL0094	HONORS THESIS		
FR 0032	READINGS IN FR LIT II	PHIL0112	SYNTACTIC THEORY		
FR 0042	LA BELLE EPOQUE	PHIL0117	PHILOSOPHY OF MIND		
FR 0094	INDEPENDENT STUDY	PHIL0120	METAPHYSICS		
FR 0125	STUDIES IN FRN CULTURE	PHIL0124	BIOETHICS		
FR 0137	FR REN & BAROQUE POETRY	PHIL0133	PHILOSOPHY OF LANGUAGE		
FR 0169	LES POETES MAUDITS	PHIL0141	GLOBAL JUSTICE		
FR 0192	SPECIAL TOPICS	PHIL0152	HIST OF MODERN PHIL		
FR 0194	INDEPENDENT STUDY	PHIL0192	SEMINARS IN PHILOSOPHY		
FR 0199	HONORS THESIS	PHIL0194	SPECIAL TOPICS		
GER 0044	SHAPING IDENTITY: SOC&POL	PJS 0141	GLOBAL JUSTICE		
GER 0057	BERTOLT BRECHT	PJS 0160	ENV JUSTICE & U.S. LIT		
GER 0062	SURVEY GERMAN LIT II	PJS 0172	WAR & AMERICAN VALUES		
GER 0070	GRIMMS' FAIRY TALES	POR 0192	SP TOP/PORTUGUESE CULTRE		
GER 0092	SPECIAL TOPICS	PS 0042	WESTERN POL THOUGHT II		
GER 0094	DIRECTED STUDY	PSY 0151	SYNTACTIC THEORY		
GER 0096	TEACHING INTERNSHIP	REL 0006	PHILOSOPHY OF RELIGION		
GER 0170	GRIMMS' FAIRY TALES	REL 0022	INTRO TO NEW TESTAMENT		
GER 0175	EARLY 20TH CENTURY LIT	REL 0025	MEDIEVAL ARCHITECTURE		
GER 0192	SPECIAL TOPICS	REL 0028	MEDIEVAL ART MEDITERRANE		
GER 0194	DIRECTED STUDY	REL 0040	HISTORY OF REL IN AMER		
GER 0196	GERMAN INTERNSHIP	REL 0044	INTRO TO HINDUISM		
GER 0199	HONORS THESIS	REL 0053	INTRO RELIGIONS OF CHINA		
GRK 0103	GREEK HISTORIANS	REL 0065	INTRO YIDDISH CULTURE		
HIST0010	IR: HISTORICAL PERSPECT	REL 0078	JEWISH WOMEN		
HIST0019	MODERN LATIN AMERICA	REL 0098	MUSIC&PRAYER JEWISH TRAD		
HIST0029	US FOR RELAT SINCE 1900	REL 0104	FEMINIST THEOLOGIES		
HIST0031	HISTORY OF REL IN AMER	REL 0106	CONTEM RELIGIOUS THOUGHT		
HIST0035	AFR AM POST CIVIL RGTS	REL 0122	ICONOCLASM&ICONOPHOBIA		
HIST0041	MODERN CHINA	REL 0124	EARLY MEDIEVAL ART		
HIST0043	JAPAN SINCE 1868	REL 0125	MEDIEVAL ARCHITECTURE		
HIST0051	HISTORY ANCIENT ROME	REL 0126	ROOTS JEWISH IMAGINATION		
HIST0053	EUROPE TO 1815	REL 0128	MEDIEVAL ART MEDITERRANE		
HIST0054	EUROPE FROM FRENCH REV	REL 0142	JEWISH EXP ON FILM		

School of Engineering

Accepted Humanities/Arts/Social Sciences Courses Offered this Term

Spring 2012

Social Sciences

View the course listings for specific sections

Course #	Title	Course #	Title	Course #	Title
AMER0012	RACE IN AMERICA	HIST0053	EUROPE TO 1815	SOC 0130	WEALTH,POVERTY&INEQUALIT
AMER0186	CRTS: ISSUES IN URBAN ED	HIST0054	EUROPE FROM FRENCH REV	SOC 0141	MEDICAL SOCIOLOGY
ANTH0016	INTRO LATINO CULTURES	HIST0056	EUROPE-HIGH MIDDLE AGES	SOC 0149	SELECTED TOPICS IN SOC
ANTH0020	GLOBAL CITIES	HIST0063	MODERN GERMANY	SOC 0180	CITIES OF GLOBAL SOUTH
ANTH0099	INTERNSHIP IN ANTH	HIST0071	MIDDLE EAST SINCE WW I	SOC 0181	SEM:WAR/PEACE/STATE/SOC
ANTH0117	CHILDREN & YOUTH AFRICA	HIST0074	MODERN ARMENIA	SOC 0186	SEM:INTR'NATL HEALTH POL
ANTH0128	MESOAMERICAN	HIST0086	SPECIAL TOPICS: EUROPE	SOC 0187	IMMIGRANT CHILDREN
	ARCHAEOLOGY	HIST0093	FOUND SEM:NORTH AMERICA	SOC 0188	SEMINAR IN CURRENT SOC
ANTH0130	ANTHROPOLOGICAL THOUGHT	HIST0094	FOUNDATION SEM:EAST ASIA	SOC 0198	DIR RESEARCH SOCIOLOGY
ANTH0144	POPULAR CULTURES MIDEAST	HIST0096	FOUNDATION SEM : EUROPE	SOC 0199	SENIOR HONORS THESIS
ANTH0163	LATINO CINEMA IMAG	HIST0110	RACE,CLASS,POWER-SO. AFR	WS 0072	INTRO WOMEN STUDIES
ANTH0185	CURRENT TOPICS ANTH	HIST0120	AMER MILITARY HIST -1900		
ANTH0190	DIRECTED READING ANTH	HIST0152	REL&SPIRIT EURO 300-1500		
ANTH0191	DIRECTED READING	HIST0154	HLTH/HEAL MEDIEVAL EUR		
ANTH0197	DIRECTED RESEARCH	HIST0159	FRENCH REVOLUTION		
ANTH0198	APPRENTICESHIP ANTH RES	HIST0160	FRANCE AND AFRICA		
ANTH0199	SENIOR HONORS THESIS	HIST0162	ECON OF BRIT IND REV		
ARCH0128	MESOAMERICAN	HIST0170	ADV SP TO:WRLD&TRANSRGNL		
	ARCHAEOLOGY	HIST0175	ADV SP TPS: SOUTH ASIA		
CD 0001	INTRO CHILD DEVELOPMENT	HIST0176	ADV SP TPS: EUROPE		
CD 0007	CHILD & EDUC PROCESS	HIST0190	RSRCH SEM:WRLD TRANSR HS		
CD 0051	INTELL DEVEL YNG CHILD	HIST0191	RESEARCH SEMINAR: AFRICA		
CD 0143	SPECIAL TOPICS	HIST0196	RESEARCH SEMINAR: EUROPE		
CD 0145	TECH TOOLS FOR LEARNING	MUS 0059	PSYCHOLOGY OF MUSIC		
CD 0161	ADV PERS & SOC DEVEL	PHIL0042	WESTERN POL THOUGHT II		
CD 0192	APPRCH TO PROB BEHAVIOR	PHIL0110	BIOL FDNS OF LANGUAGE		
CD 0193	PEDIATRIC PSYCHOLOGY	PJS 0001	INTRO PEACE/JUSTICE STDY		
CH 0002	HEALTH CARE IN AMERICA	PJS 0130	WEALTH,POVERTY&INEQUALIT		
CH 0182	COMM HEALTH EDUCATION	PS 0015	SO SEM: POLITICS & CITY		
CH 0186	SEM:INTR'NATL HEALTH POL	PS 0019	SO SEM:AMER POLITICS		
CLS 0038	HISTORY ANCIENT ROME	PS 0021	INTRO COMPAR POL		
CLS 0086	SP TP:ANCIENT HISTORY	PS 0042	WESTERN POL THOUGHT II		
CLS 0186	SEMINAR ANCIENT HISTORY	PS 0061	INTRO INTERNATIONAL REL		
EC 0005	PRINCIPLES ECONOMICS	PS 0099	FIELDWORK IN POLITICS		
EC 0006	BUSINESS LAW	PS 0102	CONGRESS,BUREAU,PUB POL		
EC 0011	INTERMED MICROECON THRY	PS 0118	TOPICS IN AMER POLITICS		
EC 0012	INTERMED MACROECON THRY	PS 0120	SEM:POWER & POL IN CHINA		
EC 0016	QUANT MICROEC THEORY	PS 0128	GENDER,WORK&POL E ASIA		
EC 0018	QUANT INTER MACROEC THRY	PS 0130	SEM:AFRICAN POL ECONOMY		
EC 0019	REVIEW QUANT MACRO THRY	PS 0131	DEM & CAPITALISM JAPAN		
EC 0024	GAME THEORY	PS 0134	COMP POLITICS MID EAST		
EC 0030	ENVIRONMENTAL ECONOMICS	PS 0136	CONTEMP EUR POLITICS		
EC 0035	ECONOMIC DEVELOPMENT	PS 0138	TOPICS IN COMPAR POL		
EC 0048	HEALTH ECONOMICS	PS 0139	SEM IN COMPAR POLITICS		
EC 0060	INTERNATIONAL ECON	PS 0167	STUDIES WAR & EMPIRE		
EC 0062	ECON INTERN'L MIGRATION	PS 0168	INTERNATIONAL LAW		
EC 0074	ENTREPRENEURSHIP	PS 0174	RISE & FALL GREAT POWERS		
EC 0087	ECON OF BRIT IND REV	PS 0176	MIGRATION/REFUGEES/CITIZ		
EC 0116	ECON GROWTH:THRY&APPLICA	PS 0180	REGIONALISM IN AFRICA		
EC 0118	QUANT ECON GROWTH	PS 0188	TOPICS IN INTERN'L REL		
EC 0119	QUANT GAMES & INFO	PS 0189	SEM IN INT'L RELATIONS		
EC 0124	STATE/LOCAL PUB FINANCE	PS 0195	SEM POL SUSTAINABLE COMM		
EC 0130	TOPICS IN ENVIRON ECON	PS 0199	SENIOR HONORS THESIS		
EC 0136	TOPICS IN ECONOMIC DEVEL	PSY 0001	INTRO TO PSYCHOLOGY		
EC 0150	FINANCIAL ECONOMICS	PSY 0011	DEVELOPMENTAL PSYCH		
EC 0151	MONETARY ECONOMICS	PSY 0012	ABNORMAL PSYCHOLOGY		
EC 0154	METHODS IN ECON&FINANCE	PSY 0013	SOCIAL PSYCHOLOGY		
EC 0161	INTERNATIONAL TRADE	PSY 0017	INDUST/ORGANIZ PSYCH		
EC 0162	INTERNATIONAL FINANCE	PSY 0028	COGNITIVE PSYCHOLOGY		
EC 0169	QUANTITAT INT'L FINANCE	PSY 0036	EXP SOCIAL PSY		
EC 0176	MULTINATIONAL ENTERPRISE	PSY 0037	RES METH:DEV PSY		
EC 0190	INDEPENDENT STUDY	PSY 0038	RES METH CLIN PSY		
EC 0191	INTERMED SELECTED TOPICS	PSY 0055	HUM SEXUAL BEHAVIOR		
EC 0192	ADVANCED SEMINAR ECON	PSY 0056	DRUGS & BEHAVIOR		
EC 0196	SENIOR HONORS THESIS	PSY 0065	PHONOLOGICAL THEORY		
EC 0197	SR THESIS RESEARCH SEM	PSY 0071	CLINICAL METHODS		
EC 0198	SENIOR THESIS	PSY 0080	PSYCHOLOGY OF MUSIC		
ED 0001	SCHOOL AND SOCIETY	PSY 0092	RESEARCH IN PSYCHOLOGY		
ED 0123	PRAC OF TCHG ENGLISH	PSY 0098	READINGS IN PSYCHOLOGY		
ED 0161	SOCIOLOGY OF SCHOOL	PSY 0099	INTERNSHIP		
ED 0166	MASCULINITIES/URBAN SCHL	PSY 0106	SEM:CLINICAL PSYCHOLOGY		
ED 0167	CRTS: ISSUES IN URBAN ED	PSY 0119	FAMILY DYNAMICS&THERAPY		
ED 0182	TECH TOOLS FOR LEARNING	PSY 0130	ADV ENGINEERING PSY		
ED 0192	SPECIAL TOPICS	PSY 0133	PSYCHOLOGY & THE LAW		
ED 0212	CONCEPTUAL DISTINCTIONS	PSY 0149	PSYCH OF LANGUAGE		
ELS 0101	ENTREPRENEURSHIP&BUS PLN	PSY 0153	BIOL FDNS OF LANGUAGE		
ELS 0103	ENTREPRENEURIAL FINANCE	PSY 0182	SEM:FIELDWORK		
ELS 0105	ENTREPRENEURIAL MKTG	PSY 0192	UNDERGRAD INDEP RESEARCH		
ELS 0107	ENTREPRENEURIAL LEADERSH	PSY 0195	SR SEM:COGNITIVE&BRAIN S		
ELS 0194	SPECIAL TOPICS	PSY 0196	SEMINAR IN PSYCHOLOGY		
ELS 0199	ENTREPRENEURIAL FLDSTDY	PSY 0198	SUPERV READ IN SP TOP		
ENV 0030	ENVIRONMENTAL ECONOMICS	PSY 0199	SENIOR HONORS THESIS		
HIST0010	IR: HISTORICAL PERSPECT	REL 0040	HISTORY OF REL IN AMER		
HIST0019	MODERN LATIN AMERICA	SOC 0001	INTRO TO SOCIOLOGY		
HIST0029	US FOR RELAT SINCE 1900	SOC 0020	FAMILY & INTIMATE RELATN		
HIST0031	HISTORY OF REL IN AMER	SOC 0070	IMMIGRATION		
HIST0035	AFR AM POST CIVIL RGTS	SOC 0099	INTERNSHIP		
HIST0041	MODERN CHINA	SOC 0102	QUALITATIVE RES METHODS		
HIST0043	JAPAN SINCE 1868	SOC 0113	URBAN SOCIOLOGY		
HIST0051	HISTORY ANCIENT ROME				

School of Engineering

Accepted Humanities/Arts/Social Sciences Courses Offered this Term

Spring 2012

Additional Humanities Courses

View the course listings for specific sections

Course #	Title
ARB 0002	ELEM MOD STANDARD ARABIC
ARB 0004	INTERMED STD ARABIC II
ARB 0022	ARABIC READING,COMP,CONV
ARB 0122	ADVANCED MOD STD ARABIC
CHNS0002	ELEMENTARY CHINESE
CHNS0004	INTERMEDIATE CHINESE
CHNS0022	READING & CONVERSATION
CHNS0122	ADVANCED CHINESE II
CHNS0124	ADV READING CHINESE CULT
ENG 0002	FRESHMAN WRITING SEMINAR
ENG 0004	WRITING SEMINAR
ENG 0005	CREATIVE WRITING:FICTION
ENG 0006	CREATIVE WRITING:POETRY
ENG 0007	CREATIVE WRITING:JOURNAL
ENG 0009	WRITING FICTION:INTERMED
ENG 0010	NON-FICTION WRITING
ENG 0011	INTERMEDIATE JOURNALISM
ENG 0013	WRITING FICTION:ADVANCED
ENG 0016	FORMS OF POETRY
FR 0001	ELEMENTARY FRENCH I
FR 0002	ELEMENTARY FRENCH II
FR 0003	INTERMED FRENCH I
FR 0004	INTERMED FRENCH II
FR 0021	COMP/CONV I
FR 0022	COMP/CONV II
FR 0121	ADVANCED FRENCH LANG I
GER 0002	ELEMENTARY GERMAN
GER 0004	INTERMEDIATE GERMAN
GER 0022	COMPOSITION/CONVERSATION
GRK 0002	ELEM ANCIENT GREEK II
HEB 0002	ELEMENTARY HEBREW
HEB 0004	INTERMEDIATE HEBREW
HEB 0022	CONVERSATION/COMPOSITION
HEB 0122	COMPOSITION & CONVERSAT
ITAL0001	ELEMENTARY ITALIAN I
ITAL0002	ELEMENTARY ITALIAN II
ITAL0003	INTERMEDIATE ITALIAN I
ITAL0004	INTERMEDIATE ITALIAN II
ITAL0022	COMP/CONV II
ITAL0121	ADVANCED ITALIAN LANG
JPN 0002	ELEMENTARY JAPANESE
JPN 0004	INTERMEDIATE JAPANESE
JPN 0022	READING & CONVERSATION
JPN 0122	ADVANCED JAPANESE II
LAT 0002	ELEMENTARY LATIN II
POR 0002	ELEMENTARY PORTUGUESE II
POR 0004	INTERMED PORTUGUESE II
RUS 0002	ELEMENTARY RUSSIAN
RUS 0004	INTERMEDIATE RUSSIAN
RUS 0022	COMPOSITION/CONVERSATION
RUS 0122	ADVANCED RUSSIAN
SPN 0001	ELEM SPANISH I
SPN 0002	ELEM SPANISH II
SPN 0003	INTERMED SPANISH I
SPN 0004	INTERMED SPANISH II
SPN 0021	COMP/CONV I
SPN 0022	COMP/CONV II
SPN 0121	ADV COMP/CONVERSATION I
SPN 0122	ADV COMP&CONVERSATION II
SPN 0124	SPN-ENG TRANSLATION WKSH

School of Engineering
Accepted Mathematics Courses Offered this Term
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View the course listings for specific sections

Course #	Title
ES 0056	PROBABILITY & STATS
MATH0011	CALCULUS I
MATH0012	CALCULUS II
MATH0013	CALCULUS III
MATH0018	HONORS CALCULUS III
MATH0022	DISCRETE MATHEMATICS
MATH0038	DIFFERENTIAL EQUATIONS
MATH0041	NUMBER THEORY
MATH0046	LINEAR ALGEBRA
MATH0054	ABSTRACT LINEAR ALGEBRA
MATH0128	NUMERICAL LINEAR ALGEBRA
MATH0136	REAL ANALYSIS II
MATH0146	ABSTRACT ALGEBRA II
MATH0151	APPL OF ADVANCED CALC
MATH0158	COMPLEX VARIABLES
MATH0162	STATISTICS
MATH0167	DIFFERENTIAL GEOMETRY
MATH0196	SENIOR HONORS THESIS
ME 0150	APPLD MTH FOR ENGNRS

School of Engineering

Accepted Natural Sciences Courses Offered this Term Spring 2012

View the course listings for specific sections

Astronomy

Course #	Title
AST 0112	NEW FRONTIERS ASTROPHY

Biology

Course #	Title
BIO 0014	ORGANISMS&POPULAT W/LAB
BIO 0046	CELL BIOLOGY
BIO 0050	EXPER IN MOLECULAR BIO
BIO 0052	EXP IN CELL BIOLOGY
BIO 0105	MOLECULAR BIOLOGY
BIO 0106	MICROBIOLOGY W/LAB
BIO 0118	PLANT PHYSIOLOGY
BIO 0130	ANIMAL BEHAVIOR
BIO 0134	NEUROBIOLOGY
BIO 0144	PRIN CONSERVATION BIO
BIO 0152	BIOCHEM & CELL METAB
BIO 0164	MARINE BIOLOGY
BIO 0172	BIOCHEMISTRY II
BIO 0178	SEMINAR IN IMMUNOLOGY

Chemistry

Course #	Title
CHEM0001	CHEM FUNDAMENTALS W/LAB
CHEM0002	CHEM PRINCIPLES W/LAB
CHEM0012	GENERAL CHEMISTRY
CHEM0016	CHEMISTRY OF MATERIALS
CHEM0032	PHYSICAL CHEM II
CHEM0034	PHYSICAL CHEMISTRY LAB
CHEM0042	ANALYTICAL CHEM W/LAB
CHEM0052	ORGANIC CHEMISTRY II
CHEM0054	ORGANIC CHEM II LAB
CHEM0131	STAT THERMODYNAMICS
CHEM0144	SPECTROSCOPIC METHODS
CHEM0152	ADV ORGANIC SYNTHESIS
CHEM0157	MEDICINAL CHEMISTRY
CHEM0162	CHEMISTRY TRANSITION ELM
CHEM0172	BIOCHEMISTRY II
CHEM0192	SEMINAR IN CHEMISTRY

Geology

Course #	Title
GEO 0002	ENVIRON GEOLOGY W/LAB
GEO 0022	STRUCTURAL GEO W/LAB
GEO 0036	STRATIGRAPHY
GEO 0104	GEO APPLICATIONS OF GIS
GEO 0132	GROUNDWATER CHEM&QUALITY
GEO 0194	SENIOR THESIS

Physics

Course #	Title
PHY 0011	GENERAL PHYSICS I W/LAB
PHY 0012	GENERAL PHYSICS II W/LAB
PHY 0025	BIOPHYSICS
PHY 0041	ELECTRONICS
PHY 0052	THERMAL PHYSICS
PHY 0064	EXPERMTL MODERN PHYSICS
PHY 0146	ELECTROMAG THEORY II
PHY 0164	QUANTUM PHYSICS II

BLOCK SCHEDULE

	50 and 75 Minute Classes						150/180 Minute Classes and Seminars			
	Mon	Mon	Tue	Tue	Wed	Wed	Thu	Thu	Fri	Fri
8:05-9:20 (A+,B+)	A+	0+	B+	1+	A+	2+	B+	3+	B+	4+
8:30-9:20 (A,B)	A		B		A		B		B	
9:30-10:20 (A,C,D)	D	0	C	1	C	2	A	3	C	4
10:30-11:20 (D,E)	E		D		E		D		E	
10:30-11:45 (D+,E+)	E+		D+		E+		D+		E+	
12:00-12:50 (F)	Open		F	Open		F	F		F	
12:00-1:15 (F+)	Open		F+	Open		F+	F+		F+	
1:30-2:20 (G,H)	G	5	H	6	G	7	H	8	G	9
1:30-2:45 (G+,H+)	G+		H+		G+		H+		G	
2:30-3:20 (H on Fri)									H (2:30-3:20)	
3:00-3:50 (I,J)	I	5+	J	6+	I	7+	J	8+	I (3:30-4:20)	9+
3:00-4:15 (J+,I+)	I+		J+		I+		J+			
3:30-4:20 (I on Fri)										
4:30-5:20 (K,L)	J/K		L		K		L			
4:30-5:45 (K+,L+)	K+		L+		K+		L+			
6:00-6:50 (M,N)	N/M	10+	N	11+	M	12+	N	13+		
6:00-7:15 (M+,N+)	M+		N+		M+		N+			
7:30-8:20 (P,Q)	Q/P	10	Q	11	P	12	Q	13		
7:30-8:45 (P+,Q+)	P+		Q+		P+		Q+			

- Notes**
- * A plain letter (such as B) indicates a 50 minute meeting time.
 - * A letter augmented with a + (such as B+) indicates a 75 minute meeting time.
 - * A number (such as 2) indicates a 150 minute class or seminar. A number with a + (such as 2+) indicates a 180 minute meeting time.
 - * Lab schedules for dedicated laboratories are determined by department/program.
 - * Monday from 12:00-1:20 is departmental meetings/exam block.
 - * Wednesday from 12:00-1:20 is the AS&E-wide meeting time.
 - * If all days in a block are to be used, no designation is used. Otherwise, days of the week (MTWRF) are designated (for example, E+M+W).
 - * Roughly 55% of all courses may be offered in the shaded area.
 - * Labs taught in seminar block 5+-9+ may run to 4:30. Students taking these courses are advised to avoid courses offered in the K or L block.