## The college: Arts & sciences

## African & African-American Studies

Department:	African & African-American Studies
Course:	AAS 110
Title:	Introduction to African and African-American Studies
Cross-listed:	HIS 110
Instructor:	Hudson, L. Class Size: 15
Description:	Please see HIS 110 for the Description.
Department: Course: Title: Cross-listed: Instructor: Description:	African & African-American Studies AAS 151 The Blues REL 151, MUR 127 Beaumont, D. The course is about the history and influence of the music known as "the Blues." The course covers development of the blues from the earliest practitioners to recent developments. Biographies of leading musicians and the social conditions in which the music developed are also examined. Finally its enormous impact on American culture both directly and through its descendent rock'in'roll is analyzed. Classroom time will be divided between listening and discussion. A large body of music will be "streamed" - available in digitized files for students in this class to access through their own computers. This will eliminate the problem of one student having checked out the CD etc.
Department:	African & African-American Studies
Course:	AAS 202
Title:	The Third World
Cross-listed:	HIS 201/201W
Instructor:	Mandala, E.
Exams:	mid-term and final
Coursework:	One 10-15 page essay
Description:	Please see HIS 201 for the Description.
Department:	African & African-American Studies
Course:	AAS 205
Title:	Debates and Theories in Anthropology
Cross-listed:	ANT 205
Instructor:	Carter, A. Class Size: 25
Restrictions:	Permission of instructor required for freshmen
Coursework:	Three papers; class presentation

Description:	This course examines contemporary and historical debates that have shaped theory and method in cultural anthropology. It aims to show how anthropological thought and practice has responded to urgent social issues such as racism, gender inequality, and poverty. The course gives particular attention to the question of what constitutes a public anthropology, that is, how anthropologists engage and address audiences outside of academia.
Department:	African & African-American Studies
Course:	AAS 210
Title:	American Culture
Cross-listed:	ANT 245
Instructor:	Emmett, A. Class Size: 30
Description:	Please see ANT 245 for the Description.
Department:	African & African-American Studies
Course:	AAS 241
Title:	Studies in a Major Author: Toni Morrison and Critical Theory
Cross-listed:	ENG 243
Instructor:	Li, Stephanie
Description:	Please see ENG 243 for the Description.
Department:	African & African-American Studies
Course:	AAS 243
Title:	Muhammad and the Qur'an
Cross-listed:	REL 240
Instructor:	Homerin, Th. E.
Description:	Please see REL 240W for the Description.
Department:	African & African-American Studies
Course:	AAS 249
Title:	The Civil War
Cross-listed:	HIS 249
Instructor:	Hudson, L
Description:	Please see HIS 249 for the Description.
Department:	African & African-American Studies
Course:	AAS 254
Title:	West African Dance
Cross-listed:	DAN 181
Instructor:	Martino, K.
Description:	Please see DAN 181 for the Description.
Department:	African & African-American Studies
Course:	AAS 265
Title:	The Black Art Movments

Instructor: Description:	Rabig, J. Students in this course will encounter the black freedom struggle through the literature, music, art, and political activism of the Black Arts Movement. The artistic corollary to Black Power, the Black Arts Movement flourished in the 1960s and 1970s as artists/activists sought to put a revolutionary cultural politics into practice around the country. Though short-lived, the Black Arts Movement had far-reaching consequences for the way artists and writers think about race, history, identity, and the relationship between artistic production and liberation. Well read the work of Amiri Baraka, Sonia Sanchez and other artists who created the traditionally-defined Black Arts Movement in Harlem and trace the movements extension across the country through protest, local political battles, and the emergence of black studies programs. Well explore the overlap of the Black Arts Movement with other political currents in the late 1960s and early 1970s and delve into the long-running debates over class, gender, and ideology that concerned both Black Arts circles and the larger Black Power Movement. Well consider the ways in which the Black Arts Movement lived on in hip-hop and film, as well as the ways in which it was co-opted or distorted.	Department: Course: Title: Cross-listed: Instructor: Prerequisites: Restrictions: Exams: Coursework: Description: Department: Course: Title: Cross-listed: Instructor: Restrictions: Coursework: Description:	<ul> <li>African &amp; African-American Studies</li> <li>AAS 278</li> <li>Birth and Death II: Making Populations Healthy</li> <li>ANT278</li> <li>Homerin, E.</li> <li>None; ANT 218 is strongly recommended</li> <li>Permission of instructor required for freshmen</li> <li>3 papers</li> <li>Regular take-home exams and a research paper. Where</li> <li>appropriate, students will be encouraged to seek internships in</li> <li>NGOs and other agencies providing population-related services.</li> <li>Please see ANT 278 for the Description.</li> <li>African &amp; African American Studies</li> <li>AAS 286</li> <li>Islam and the Third World</li> <li>AAS 278/HIS 244W/REL 247W</li> <li>Homerin, Th. E.</li> <li>Class Size: 25</li> <li>Permission of instructor required</li> <li>3 papers</li> <li>This course will study some of the important and often dramatic changes occurring in modern Islam by examining the effects on it</li> </ul>
Department: Course: Title: Cross-listed: Instructor:	African and African-American Studies AAS 270 African-American Visual Culture AH 266/466 Saab, Joan		of Third World political, social, and economic factors. Case studies will be drawn from twentieth century Islam but placed in context of similar situations involving other religious traditions in South America, Africa, and South Asia.
Description:	Please see AH 266 for the Description.	Department: Course:	African & African-American Studies AAS 335
Department: Course: Title:	African & African-American Studies AAS 277 Energy Resources and Utilization	Title: Cross-listed: Instructor:	The Political Economy of Food in Africa HIS 347W, HIS 457 Mandala, Elias <b>Class Size:</b>
Cross-listed: Instructor:	CHE 277 Ebenhack,B. Class Size: 25	Description:	Please see HIS 347W for the Description.
Restrictions: Coursework: Description:	Permission of instructor required for freshmen Quizzes, Mid-term and Final Papers Emphasis will be placed on technical and development aspects of	Department: Course: Title:	African & African-American Studies AAS 343 Race and the American City
– <b>, F</b>	energy resource problems. Applications of resource exploration and development in energy prospective locales which lack commercial energy development will be discussed. The importance of energy to the quality of life in industrial and non- industrialized countries will be considered. Problems considered include: combustion of fossil fuels on environmental grounds, benefits of energy in social development, technology of energy exploration and development, and economics of energy development and acquisition.	Cross-listed: Instructor: Restrictions: Exams: Coursework: Description:	HIS 343W, HIS 43 Wolcott, V. Class Size: 15 Permission of instructor required Midterm and Final Examination Two papers, 5-7 pages Race has played a major role in defining the physical, cultural, and political environment of American cities. This course will explore the role of race in urban history in the nineteenth and twentieth centuries. Cities were utopian destinations for generations of immigrants and native-born African-Americans.

Yet, those same cities were marked by racial prejudice, concentrations of poverty, and political corruption. We will examine these contradictions by analyzing the experiences of African American, Latino, and Asian residents of urben centers.

Department: Course: Title: Cross-listed: Instructor: Description: Department: Course: Title:

Title:

African & African-American Studies AAS 352 Harlem Renaissance PSC 267 Tucker, Jeff See ENG 380 African & African-American Studies

Department:African & African-African StudiesCourse:AAS 371Title:Evolution of the World Economic Order Since the 16th CentruyCross-listed:HIS 357W/HIS 457/ECO 371Instructor:Inikori, J.Class Size: 15Exams:Midterm / FinalDescription:Please see HIS 357W for the course description.

### Anthropology

Department:	Anthropology	
Course:	ANT 101	
Title:	Cultural Anthropology	
Instructor:	Kim, E.	Class Size: 40
<b>Restrictions:</b>	Open only to freshmen & sophomore	s
Coursework:	Lectures, discussion, reading, films, t	
Description:	This course is an introduction to the study of human culture that exposes students to the basic principles of anthropology. Students will be introduced to the range of cultural diversity that exists in the world, from tribal societies to modern nation-states. Through this encounter, students will learn to view exotic cultures in comparative context, and will critically reflect on what it means to be human. NOTE: THIS CLASS IS REQUIRED FOR ANTHROPOLOGY MAJORS BEGINNING IN FALL 2008.	
Department:	Anthropology	
Course:	ANT 110	
Title:	Introduction to Linguistic Analysis	
<b>Cross-listed:</b>	LIN 110	
Instructor:	Paauw, S.	Class Size: 30
Description:	See LIN 110 for course description	
Department: Course:	Anthropology ANT 201	

Theory and Method in Anthropology

Instructor: Restrictions: Description:	Reichman, D. Class Size: 25 Permission of instructor required Permission of Department required A survey of major developments in anthropological thought. This class will explore the relationship between sociocultural theory and the methodologies used by anthropologists to conduct ethnographic research such as: participant observation(fieldwork), interviewing, and various writing strategies. (NOTE: This class is required for the anthropology concentration. PERMISSION of instructor is required in Spring 2009)
Department: Course: Title: Instructor: Prerequisites: Restrictions: Description:	Anthropology ANT 204 Ethnographic Themes Emmett, A. <b>Class Size:</b> 25 Introductory cultural anthropology course helpful Permission of instructor required for freshmen This course offers an encounter with ethnographies that reveals a fascinating history of engagement with the global and a mesmerizing history of ideas about doing fieldwork and writing about it. Using ethnographies and ethnographic films we will explore some twists and turns of the discipline and examine the kinds of contemporary social and cultural themes that they raise. We will ask how ethnographies, written and visual, link academic debates in the West to the lived experience of local people around the globe. We will also explore distinct ethnographic insights on the global world of the 21st century.
Department: Course: Title: Instructor: Prerequisites: Restrictions: Coursework: Description:	Anthropology ANT 216 Medical Anthropology Metcalf, L. Class Size: 40 Previous Anthropology or Health and Society courses or permission of instructor Permission of instructor required for freshmen Three papers Class will explore the cultural and social dimensions of health and illness including the political and economic dimensions. Particular attention will be placed on how social change affects peoples' health and the delivery of health care. We will also pay critical attention to the practice of Western biomedicine and it's developing role in various societies. Students will use the concepts and methods of anthropology to examine these processes. Cousework will include exams, papers based on independent research, and class participation.

Department:AnthropologyCourse:ANT 226Title:Culture and ConsumptionCross-listed:ANT 426Instructor:Foster, RPrerequisites:ANT 101 or 201 helpfulDescription:This course explores anthr

Class Size: 20

This course explores anthropological approaches to the study of mass consumption and material culture. Specific topics for investigation include: possessions and personhood; the history of modern consumerism in the West; fashion and social status; and the globalization of markets. The course will address these topics, as well as the politics of consumption, through studies of advertising and food provisioning. Students will be required to develop and present a brief research project; students registered for ANT 226 will be asked to do projects on food-related issues. Projects may make use of ethnographic and/or historical methods and/or primary research materials.

Department:	Anthropology
Course:	ANT 229
Title:	War and Migration
Cross-listed:	WST 229
Instructor:	Kim, E Class Size: 20
<b>Description:</b>	This course critically examines post-1945 migrations to the U.S. through the lens of war. We will consider the far-ranging impacts of American military intervention in East and Southeast Asia on migration flows and the civil rights of American citizens of Asian descent. We will also consider the experiences of migrants and refugees displaced by war and violence in Latin America and Africa and the transnational communities and nationalist projects that have emerged among exiled groups. Throughout the course we will ask how American geopolitical relations and imperial projects intersect with politics of race, class and gender in the U.S. Readings and films will cover the experiences of war orphans, refugees, military sex workers, and war brides. The course concludes with an examination of the current "war on terror" and its impact on Asian American and Arab American communities in the U.S.

Department:	Anthropology	
Course:	ANT 245	
Title:	American Culture	
Cross-listed:	AAS 210	
Instructor:	Emmett, A.	Class Size: 30
Description:	American Culture? I	there such a thing? This class will explore,
	discuss and debate this question and some more: If there is an	
	American culture, ho	w can we tackle it? How does

anthropology, famous for its research away from home, help us understand current major debates in the United States? How do outsiders understand and evaluate American culture? Is there a return of religion to American public life? How do Americans address power relations, class, gender, ethnicity and race? To tackle these questions we will use assigned readings, films, and current events seen through print and electronic media.

Department: Course: Title: Cross-listed: Instructor: Description:	Anthropology ANT 252 Women in East Asia HIS 296 Hauser, W. See HIS 296W for course description	Class Size: 30
Department: Course: Title: Cross-listed: Instructor: Description:	Anthropology ANT 277 The Museum & 'the Other' AH 277 Berlo, J See AH 277 for course description	Class Size: 20
Department: Course: Title: Cross-listed:	Anthropology ANT 278 Birth and Death II: Making Populatio AAS 278	ns Healthy
Instructor: Prerequisites: Restrictions:	Carter, A. None; ANT 218 is strongly recomme Permission of instructor required for a	freshmen
Coursework: Description:	Regular take-home exams and a resea appropriate, students will be encourag NGOs and other agencies providing p Please see ANT 278 for the course de	ged to seek internships in population-related services.
Department: Course: Title: Cross-listed: Instructor: Restrictions: Description:	Anthropology ANT 281K Solving URs Enviro-Footprint CHE 281K Ebenhack, B. Not open to freshmen See CHE 281K for course description	<b>Class Size:</b> 20 1.
Department: Course: Title: Instructor: Restrictions:	Anthropology ANT 292 Senior Seminar Reichman, D. Open only to senior majors or by perm	<b>Class Size:</b> 20 mission of instructor

**Description:** For Anthropology Majors and Minors, usually in their final semester. An opportunity to reflect upon and pull together the work they have done in the Anthropology concentration. For example, students may expand and revise projects carried out in ANT 291 or during study abroad. Specific content and format of the seminar will be created by students in consultation with the instructor.

Department:	Anthropology	
Course:	ANT 310K	
Title:	Social Network Theory and Entre	preneurial Activity in Silicon
	Valley	
Cross-listed:	SOC 310K	
Instructor:	Smith, Thomas, Silon, David	Class Size: 20
Description:	See SOC 310K for description	
•	1	

Department:AnthropologyCourse:ANT 311KTitle:Social Network Theory and Entrepeneurial Activity in Silicon<br/>Valley IICross-listed:SOC 311KInstructor:Smith, T.,Silon, D.Class Size: 20Description:See SOC 311K for course description

### American Sign Language

Department: Course: Title: Exams: Description:	American Sign Language ASL 101 Beginning American Sign Language I <b>Class Size:</b> 18 frequent quizzes; final An introductory course in American Sign Language as developed and used by the Deaf community in most areas of North America. It consists of a preparatory phase to attune students to communication in the manual-visual mode, followed by instruction and practice in vocabulary, sentence structure, elementary conversation, and literature. In addition, the course provides a survey of various issues raised by examining ASL and the Deaf community.
Department: Course:	American Sign Language ASL 102
Title:	Beginning American Sign Language II Class Size: 18
Prerequisites:	ASL 101 or ASL Skill Evaluation by designated ASL Program faculty
Exams:	frequent quizzes, final
Description:	Continuation of basic study of the language and culture; an opportunity to build receptive and expressive sign vocabulary;

use of signing space; further nonmanual components of ASL grammar including facial expression and body postures, and introduction of conversational regulators. Discussion of regional and ethnic sign variations, and social, political and educational institutions of the Deaf community. Interaction with members of the Deaf community in both directed and non-directed activities.

Department: Course: Title: Prerequisites: Exams: Description:	American Sign Language ASL 105 Intermediate American Sign Language I Class Size: 18 ASL 102 or ASL Skill Evaluation quizzes and final This course emphasizes further development of receptive and expressive skills. Introduction to language forms used in ASL poetry and features of culture as displayed in art and theater.
Department: Course: Title: Prerequisites: Exams: Description:	American Sign Language ASL 106 Intermediate American Sign Language II Class Size: 7 ASL 105 or ASL Skill Evaluation quizzes and videotaped final This course consists of intensive use of expressive and receptive skills in complex grammatical structures, dialogues, and storytelling.
Department: Course: Title: Instructor: Prerequisites: Description:	American Sign Language ASL 110 Comparative Study of French Sign Language Chastel, G. Class Size: 18 ASL 105 Intended for students with intermediate-level skills in ASL. American Sign Language is historically related to French Sign Language (LSF) and this course is designed for students who wish to pursue a comparative study between ASL and its parent language as well as to achieve independence in communication with French deaf people. The main objectives are to gain basic knowledge of modern LSF vocabulary and to examine archaic forms, thus enhancing understanding of sign language evolution and diversity.
Department: Course: Title: Prerequisites: Restrictions: Description:	American Sign Language ASL 203Advanced ASLClass Size: 18ASL 106. Course open to ASL Majors and Minors only.Open only to Junior and Senior majors of the offering department This advanced language course allows students to extend their ASL competence and to use ASL in a variety of discourse and

narrative settings. Skills to be developed are: semantic awareness analysis, in-depth exploration of ASL grammar and complex uses of space, ways of making transitions between ideas, use of classifiers, and determining appropriate perspective in specific texts.

Department: Course: Title: Instructor: Prerequisites: Coursework: Description:	American Sign Language ASL 205 Art of Translation: ASL and English Clark, P. Class Size: 10 ASL 201 Three translation projects will be required. Introduction to the study of meaning-based translation, with a focus on the analysis of ASL texts and the development of written English translation.
Department: Course: Title: Cross-listed: Description:	American Sign Language ASL 208 Language Development BCS 259, LIN 208, PSY 259 For description, see BCS 259
Department: Course: Title: Prerequisites: Description:	American Sign Language ASL 209 Teaching ASL as a Second Language <b>Class Size:</b> 10 ASL 106 This course is designed to provide an understanding of how sign language is taught in various settings, and to explore current teaching methods and theories. Students learn about the history of Sign Language teaching and resources to support such efforts. Students are provided opportunities to practice basic teaching techniques and to select appropriate classroom materials to introduce cultural and grammatical features.
Department: Course: Title: Prerequisites: Description:	American Sign Language ASL 210 Narrative and Poetic Styles in ASL <b>Class Size:</b> 18 ASL 201 Examines the techniques for telling stories or creating poetry in ASL. Eye gaze, role shifting, spatial referencing, and appropriate use of classifiers in storytelling will be featured. ASL poems on videotape are analyzed for their poetic devices and elements. Guest lecturers demonstrate related forms of expression, such as "signlore", signing for the stage, and nonverbal communication. Students will be given the opportunity to create literary forms from their personal experiences, as well as from well-known sources, throughout the course with guidance from the instructor.

Department: Course: Title: Prerequisites: Description:	American Sign LanguageASL 250Sociolinguistics of the Deaf CommunityClass Size: 18ASL 105Investigation of language attitudes, language policy, language usein society, and discourse analysis.	
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	<ul> <li>in society, and discourse analysis.</li> <li>American Sign Language</li> <li>ASL 270</li> <li>Psych Perspectives on Deafness &amp; Signed Lang</li> <li>BCS 270</li> <li>Dye, M.</li> <li>BCS/112 or ASL 101 or ASL 200/BCS 264</li> <li>This course will explore the impact of deafness and using a sign language on human behavior. Topics to be covered will include, but not be limited to, visual perception, language acquisition, acquiring literacy in a written language, and psychological assessment. In all of these domains we will examine how deafness and signing both influences an individual's psychology and the field of psychology itself.</li> </ul>	

## Art & Art History

Department: Course: Title: Cross-listed: Instructor: Description:	Art & Art History AH 100 Introduction to Visual and Cultural Studies WST 123 Willis, S. Spring 2009. The aim of this course is two-fold: first, to develop an understanding of the extraordinary variety of ways meaning is produced in visual culture; secondly, to enable students to analyze and describe the social, political and cultural effects of these meanings. By studying examples drawn from contemporary art, film, television, digital culture, and advertising we will learn techniques of analysis developed in response to specific media and also how to cross-pollinate techniques of analysis in order to gain greater understanding of the complexity of our visual world. Grades are based on response papers, class attendance and participation, and a midterm and a final paper. Occasional film screenings will be scheduled as necessary in the course of the semester.
Department: Course:	Art & Art History AH 102
Title:	Introduction to Media Studies
<b>Cross-listed:</b>	ENG 118/FMS 131

Instructor:

Niu, G.

Description:	Spring 2009. Please see ENG 118 for the course description.	
Department: Course: Title: Instructor: Description:	Art & Art History AH 107 Ancient Architecture D. Walsh <b>Class Size:</b> 30 Spring 2009. This offering introduces architecture of the ancient world with a focus on Egypt, Mesopotamia, the Bronze Age Aegean, Greece and Rome. Of particular interest is the creation and development of urbanism in which spaces and buildings are expressions of political, social, economic and religious aspects of the cultures. Due consideration will be made of the environment as a source not only of materials (and their construction techniques), but as relating to the meaning of buildings and the world view of the cultures.	Department: Course: Title: Cross-listed: Instructor: Restrictions: Description: Department: Course:
Department: Course: Title: Instructor: Description:	Art & Art History AH 120 Northern Renaissance Goehring, M. <b>Class Size:</b> 30 Spring 2009. This course surveys the artistic developments outside of Italy in Northern Europe around 1350-1600 - from their late medieval foundations to the art of the early modern cities. Principal attention will be granted to painting with focussed consideration of manuscript illumination. Van Eyck, Bosch, Durer, Holbein, Bruegel, may be among the artists addressed along with topics such as the rise of pictorial genres, nation-states, urban art markets, and other cultural developments of the period.	Title: Cross-listed: Instructor: Description: Department: Course: Title: Cross-listed: Instructor: Coursework: Description:
Department: Course: Title: Instructor: Exams: Coursework: Description:	<ul> <li>Art &amp; Art History</li> <li>AH 130</li> <li>History of Photography</li> <li>Seiberling, G.</li> <li>Two exams</li> <li>One short paper, one longer paper, field trips to GEH every two weeks.</li> <li>Spring 2009. This survey course will provide an overview of photography from pre-photographic times to the present. Given that there is no single history, but only histories of the medium, the course will explore a variety of approaches to the study of photography, its evolution in relation to other art forms and its role in the development of mass culture. Students taking this course will gain a basic knowledge of photographic history, its major events, practitioners and theorists. We will consider the photographic image in a range of contexts, including art, advertising, journalism and propaganda, and will explore the</li> </ul>	Department: Course: Title: Cross-listed: Instructor:

social, political and ethical consequences of photographic media in our culture. This course will make extensive use of the collections of the International Museum of Film and Photography at the George Eastman House.

epartment:	Art & Art History
ourse:	AH 209
tle:	Writing on Art
ross-listed:	SA 209
structor:	Haidu, R. <b>Class Size:</b> 20
estrictions:	Permission of instructor required
escription:	Spring 2009. Please see SA 209 for the course description.
epartment:	Art & Art History
ourse:	AH 221
tle:	Classical Archaeology: Roman Art & Archaeology
ross-listed:	CLA 221
structor:	Colatoni, E.
escription:	Spring 2009. See CLA 221 for description.
epartment: ourse: tle: ross-listed: structor: oursework: escription:	Art & Art History AH 242 Barbarian Europe HIS 216 Walsh, D. Students will be required to write two essays and a research paper on selected topics. Spring 2009. This offering explores the cultures of northern Europe from the 5th century BCE to the 10th century CE. In the first unit, we will deal with the Celtic peoples from their prehistoric pagan past to their continuing cultural identity after their conversion to Christianity, especially in Ireland. The second unit traces the Germanic peoples from their movement throughout Europe during the Migration Period to their conversion and settlement as Christian kingdoms. The last unit considers the history of the Vikings, "the last of the barbarians", and their impact on the Christian West. The course stresses the sources and interpretation of evidence from Archaeology, art history, historical texts, inscriptions, and place names, which allow us to reconstruct the cultures and assess their contribution to Medieval and, ultimately, Modern society.
epartment:	Art & Art History
ourse:	AH 255
tle:	Arts in American Culture
ross-listed:	HIS 263

Class Size: 25

Seiberling, G.

Exams: Description:	Midterm, final exam, term paper. Spring 2009. What did it mean to be American? What did America look like, geographically and in terms of its people? What part did art and photography play in documenting and giving an identity to Americans in the century between 1850 and 1950? Attention will be given to documenting and representing the West, immigration, and the emerging urban environment. Students will work with the collections of George Eastman House and the Memorial Art Gallery. Requirements for the course include a short museum paper, a term paper, with draft, and take- home midterm and final exams.	Cross-listed: Instructor: Prerequisites: Description:
Department: Course: Title: Cross-listed: Instructor: Description:	Art & Art History AH 269 Art of the Floating World JPN 269/WST 270 Pollack, D. Spring 2009. Please see JPN 269 for the course description.	
Department: Course: Title: Instructor: Exams: Description:	Art & Art History AH 272 Film HistoryMuseum Studies Loughney, P. AH 472/ENG 268/ENG 468/FMS 254/FMS 454 Spring 2009. Please see ENG 268 for the course description.	
Department: Course: Title: Cross-listed: Instructor: Description:	Art and Art History AH 274 Cultural History of American Architecture AH 474 Saab, J. Class Size: 25 Spring 2009. This course will explore critical issues in American Architecture from an interdisciplinary perspective that focuses on the built environment. How do spaces shape history? Can we locate the history of slavery, corporate capitalism, the Cold War, or cultural imperialism, within their respective architectural spaces: the plantation, the family home, the skyscraper, the fallout shelter, or the international hotel? Over the course of the semester we will look at contemporary monographs of specific spaces alongside the work of key architectural historians and theorists. In addition, we will discuss novels, films, and paintings that foreground the centrality of architecture within American modernity.	Department: Course: Title: Cross-listed: Instructor: Description:
Department: Course: Title:	Art & Art History AH 277 The Museum & 'the Other'	Department: Course: Title: Cross-listed:

ted:AH 477/ANT 277or:Berlo, J.sites:None.ion:Spring 2009. For your tried to explain and

Spring 2009. For well over 100 years, Euro-Americans have tried to explain and interpret indigenous cultures by means of representations in museums. We will examine museum isplays of Native American and African visual culture, in particular, as exemplified in a century of public exhibits. These will range from Franz Boass displays in the American Museum of Natural History in New York in the 1890s to exhibits in the planning stages at the time the course is being offered. Pivotal moments of inquiry will include Indian Art of the United States (MOMA, 1941), African Art in Motion (The National Gallery of Art, Washington, 1974), Into the Heart of Africa (Royal Ontario Museum, Toronto, 1990), Chiefly Feasts (American Museum of Natural History, NY, 1992), and the professor's own Plains Indian Drawings 1865-1935: Pages from a Visual History (The Drawing Center, NY, 1996). We will also examine how Native American and African American artists, scholars, and curators have represented their own cultures, and critiqued the Euro-American culture of representation, focusing on exhibits such as Fred Wilson's "The Other Museum" (Washington Project for the Arts, Washington, D.C., 1991) and current exhibits at the National Museum of the American Indian in Washington, D.C.

Department: Course: Title: Cross-listed: Instructor: Description:	Art & Art History AH 280 Native American Art and Religion REL 238 Berlo, J. Spring 2009. This examination of selected spiritual and artistic traditions of the indigenous peoples of North America will range from the Canadian arctic to the desert southwest, as we look at various ways in which the visual arts articulate religious and philosophical systems of thought. We will explore various traditional practices including shamanism, art and hunting magic in the arctic, and katsina societies at Hopi and Zuni in the southwest. More in-depth readings will focus on Navajo sandpainting and healing, and Lakota religion and ceremony. We will consider topical issues like repatriation, secrecy and privacy, ecology and ethics, as well as New Age appropriation of Native religious traditions.
Department:	Art & Art History
Course:	AH 282
Title:	Renaissance Art: Space, Narrative, Form

AH 482

Instructor: Description:	Duro, P. <b>Class Size:</b> 20 Spring 2009. Focusing on the art of fifteenth and sixteenth- century Italy, this course will explore the development of the characteristic structures of renaissance painting, sculpture and architecture through three related concepts: space, narrative and form. These concepts will lead us to study the development of pictorial space in the work of Giotto and his followers, and the parallel, and connected, development of a narrative tradition of storytelling. Together these two initiatives resulted will be shown to culminate in a distinctive pictorial style in which space and	Department: Course: Title:	Starting from a consideration of the foundational texts of frame theory in the writings of Immanuel Kant and Jacques Derrida, we will examine the discursive limits of the material and non- material borders in art. Students will have the opportunity to present topics of their choice for discussion in class and for the written assignments. Art & Art History AH 326 New Histories of Postwar Art II
	narrative work together to produce the appearance of reality often referred to as a window onto the world. But the history of the art of the Italian Renaissance is also the history of a the rise of the artist, of the intellectual and social revolution that was humanism, of the rivalry between city states like Florence, Mantua and Sienna, of workshop tradition, of the patronage of princes of church and state, and above all of those artists whose work has left a cultural legacy that is as vibrant today as it was five centuries ago.	Cross-listed: Instructor: Description:	AH 525 Haidu, R. Class Size: 20 Spring 2009. This is an intensive reading seminar that examines new texts by the emerging generation of art historians. We read books published in the last two to three years, concentrating on three overlapping areas and types of study: urbanism and public space; monographs; and the intersection of the performing and visual arts in the postwar period. Texts include a diagnosis of how "techno-utopia's" agenda substituted for the classic free and the intersection of the performing the
Department:	Art & Art History		framework of architecture in postwar American urbanism; the hybridization of music theory, film, and "underground" popular
Course:	AH 300		culture in the work of artist Tony Conrad; and an examination of
Title:	Art New York New Media Culture		the formation of an African-American contemporary art that
Cross-listed:	SA 300		subtly complicates the primacy of race in artistic identity.
Instructor:	Cohen, E.		Secondary readings accompany each primary text, and grades are
<b>Prerequisites:</b>	Special application required; permission of school dean required.		based on class participation, reading presentations prepared
Description:	Spring 2009. Please see SA 300 for the course description.		jointly with other class members; and a short paper expanding the student's presentation.
Department:	Art & Art History		
Course:	AH 305K	<b>Department:</b>	Art & Art History
Title:	Art New York Colloquium	Course:	AH 355
Cross-listed:	SA 305K	Title:	Feminist Film Theory
Instructor:	Cohen, E.	Cross-listed:	AH 555, FMS 355, FMS 555, ENG 261, CLT 2
Prerequisites: Description:	Special application required; permission of school dean required. Spring 2009. Please see SA 305K for the course description.	Instructor: Description:	Willis, S. Class Size: 20 Spring 2009. Feminism has had a powerful impact on the developing field of film theory from the 1970s to the present.
Department:	Art & Art History		This course will examine the major feminist work on film,
Course:	AH 307		moving from the earlier text-based psychoanalytic theories of
Title:	Rhetoric of the Frame		representation to theories of feminine spectatorship to studies of
Cross-listed:	AH 507		reception contexts and audience. We will also give some attention
Instructor: Description:	Duro, P. Class Size: 15 Spring 2009.The task of any discussion of frames & framing in the visual arts is first and foremost to counter the tendency of the frame to invisibility with respect to the artwork. It is against this tendency to ignore the frame that this seminar is directed. This course aims to show that the frame serves to create a space for the artwork which the work, in itself, is incapable of furnishing.		to the very important role of feminist theory in television studies. Weekly screenings, keyed to the readings, will allow us to test the value of these positions for close critical analysis of the film or television text. Readings to include: Laura Mulvey, Kaja Silverman, Constance Penley, Judith Mayne, Linda Williams, Jacqueline Bobo, Valerie Smith, Lynn Spigel, Lynne Joyrich, Julie D'Acci.

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Art & Art History AH 392 Art New York Internship SA 392 Cohen, E. Special application required; permission of school dean required. Spring 2009. Please see SA 392 for the course description.
Department:	Art & Art History
Course:	AH 434
Title:	Paris: Capital of the 19th Century
Cross-listed:	FR 234
Instructor:	R. Doran
Description:	Spring 2009. See FR 234 for description.
Department: Course: Title: Instructor: Prerequisites: Restrictions: Description:	Art & Art History AH 584 Research Seminar in Visual and Cultural Studies Saab, J. <b>Class Size:</b> 15 Open to Visual and Cultural Studies students only. See course description for specific prerequisties required This course is a continuation of AH593 and is limited to first year students. Students should enter with a a fully articulated project. The first few classes will be dedicated to research and writing strategies. The rest of the semester will be dedicated to the students' projects. At the end of the semester, each student will present their work in a professional, conference-style format and complete a paper worthy of publication in an academic journal. Open to Visual and Cultural Studies students only.

### Art & Art History -- Studio Arts

Department: Course: Title:	Art & Art History Studio Arts SA 111 Introductory Drawing		
Instructor:	Ashenfelder, S. Class Size: 10		
Restrictions:	Permission of instructor required		
Description:	Spring 2009. This course is designed as an exploratory		
	investigation into the art of drawing through a traditional and experimental approach. Through a sequence of projects, students will have the opportunity to develop formal artistic skills and spatial relationships while enhancing their conceptual understanding of art as a visual language. Students will work from life and from the imagination to solve both process-oriented and product- oriented visual problems. Students should expect to		

gain experience in pencil, charcoal, oil pastel, chalk pastel, ink,

wax resist, and a variety of non-traditional media. Emphasis is given to learning a variety of processes; the resulting products act as documents of sight and insight. While a significant amount of time will be devoted to studio production, students will also meet regularly for demonstrations, presentations, and discussions. Evaluation will primarily be based on the quantity and quality of studio production as well as the effort to thoughtfully contribute to critiques and discussions. Relevant readings and short papers are to be expected. Students who have taken SA 171 with a drawing component are still invited to enroll. Permission by instructor required. Not open to seniors. Studio art supplies fee: \$50.

Department: Course: Title: Instructor: Restrictions: Description:	Art & Art History Studio Arts SA 121 Introductory Painting (2 sections taught) Layton, H. and Ashenfelder, S. <b>Class Size:</b> 10 Permission of instructor required Spring 2009. Designed to introduce students to the art of painting through a traditional and experimental approach. Through a sequence of projects, students will have the opportunity to practice observational painting skills as well as experiment with a variety of non-traditional media and innovative techniques. This course aims to enhance each students understanding of historical and contemporary painting trends through studio practice and classroom dialogue. Ultimately, students will work toward creating mature visual works that communicate meaning effectively. Students will work from life, from found images, and from the imagination to solve both process-oriented and product oriented visual problems. While much of our studio time will be devoted to art production, we will also meet regularly for technique demonstrations, artist presentations, and relevant discussions. Your paintings, in addition to their many other functions, will serve as documentation of your artistic and intellectual pursuit. Formal and informal critiques will regularly follow the completion of most projects. Readings and short papers are to be expected. Permission by instructor only. Not open to seniors. Studio art supplies fee: \$50.
Department:	Art & Art History Studio Arts
Course:	SA 131

SA 131	
Introductory 3D	
Ashenfelder, S.	Class Size: 10
Permission of instructor requi	red
Spring 2009. A wide range of materials and techniques from	
metal and welding to assemblage, from wood to experimental methods and media is explored in the service of three	
	Introductory 3D Ashenfelder, S. Permission of instructor requi Spring 2009. A wide range o metal and welding to assembl

dimensional art making. Investigations of the specific qualities of three dimensional media (i.e. space, form, scale, mass) and how they can convey ideas are made within a contemporary framework. Artworks synthesize a particular choice and use of materials and a concept or expression. It is the aim of this class to develop this synthesis, and in so doing, begin to develop the students own working creative vocabulary. Permission of instructor required. Not open to seniors. Studio art supplies fee: \$50.

**Department:** Art & Art History -- Studio Arts Course: SA 141 Title: Introductory Photography (two sections taught) Ashenfelder, S. Class Size: 10 Instructor: Permission of instructor required **Restrictions:** Spring 2009. The goal of this course is to begin to formulate **Description:** conceptual ideas and gain the skills and techniques necessary to synthesize these ideas into photographic images. This course will introduce basic techniques and concepts in contemporary photography. Students will read and write on photographers, artists, historians and theoreticians within the context of studio practice. Techniques covered will include basic 35 mm camera operation, black and white film processing and print development. Permission of instructor only. Permission of instructor required. Not open to seniors. Studio art supplies fee: \$50. **Department:** Art & Art History -- Studio Arts **Course:** SA 151 Title: Introductory Digital Art **FMS 260A Cross-listed:** Class Size: 10 Instructor: Shindelman, M. **Prerequisites:** Some familiarity with Macintosh computer required **Restrictions:** Permission of instructor required **Description:** Spring 2009. For the purpose of this course, the computer and software will be a medium of artistic production. Students will use writings, and readings on contemporary art practice and theory to create work within the framework of contemporary digital art. Software, namely Adobe PhotoShop and Macromedia Dreamweaver, will be the medium for materializing conceptual ideas. Prior experience with the software used in this course is not required. Permission by instructor required. Not open to seniors. Studio art supplies fee: \$50. **Department:** Art & Art History -- Studio Arts Course: SA 161

Introductory Video & Sound Art

Title:

**Cross-listed:** FMS 162, ENG 161 Class Size: 10 Instructor: Middleton, J. **Restrictions:** Permission of instructor required **Description:** Spring 2009. Please see FMS 161 for the course description. Permission of instructor required. Not open to seniors. **Department:** Art & Art History -- Studio Arts Course: SA 171 Title: Concepts in Introductory 2D: Drawing Collage Instructor: Ashenfelder, S. Class Size: 10 **Restrictions:** Permission of instructor required **Description:** Spring 2009. Students will be introduced to drawing and collage and related practices. They will develop technical proficiency, a critical vocabulary, and a broad understanding of art making's role in culture. Through comparative means, we will consider the possibilities of integrating various techniques, and how through a hybridization of media we can begin questioning the borders of conventional art production. Permission of instructor required. Not open to seniors. Studio arts supplies fee: \$50. **Department:** Art & Art History -- Studio Arts Course: SA 209 Title: Writing on Art **Cross-listed:** AH 209 **Instructor:** Haidu, R. Class Size: 20 Permission of instructor required **Restrictions: Description:** Spring 2009. By analyzing and experimenting with different styles of writing about contemporary and historical arts, we will seek to improve students' own writing and analytical skills. Students will analyze prose by artists, historians, cultural critics, poets, and others who have written on the visual arts. Slide lectures, discussions, and writing projects on objects of diverse media and historical eras will be augmented by visiting speakers and field trips to museums and galleries. This course fulfills onehalf of the upper lever writing requirement for both studio and art history majors. Permission of instructor only. **Department:** Art & Art History -- Studio Arts Course: SA 233C Title: Issues in Advanced 3D **Cross-listed:** SA 233A/SA 233B Class Size: 10 **Restrictions:** Permission of instructor required **Description:** Please see SA 233A for the course description. **Department:** Art & Art History - Studio Arts Course: SA 244A Title: Advanced Photo/Digital Art: Color Printing

Cross-listed: Instructor: Restrictions: Description:	SA 244B/244C Shindelman, M. Class Size: 10 Permission of instructor required Spring 2009. This course is an advanced photography and digital printing class. Work is expected to be conceptually challenging as well as technically sound. We will cover studio lighting, advanced camera operation, multiple film formats, advanced digital manipulation in Adobe Photoshop, scanning, color correction, large format printing, and issues in contemporary art and theory. All work will be shot on film and then scanned. Students must have had SA 141: Introductory Photography and SA 151: Introductory Digital Art or a working knowledge of Adobe Photoshop, and the understanding that additional outside work to catch students up to speed on Photoshop will be required. Permission of instructor required.	Departm Course: Title: Cross-lis Instructo Prerequi Restricti Descript Departm Course: Title: Cross-lis Instructo
Department: Course:	Art & Art History - Studio Arts SA 244B	Restricti Descript
Title:	Advanced Photo/Digital Art: Color Printing	Departn
<b>Cross-listed:</b>	SA 244A/244C	Course:
Instructor:	Shindelman, M. Class Size: 10	Title:
<b>Restrictions:</b>	Permission of instructor required	Cross-lis
<b>Description:</b>	Please see SA 244A for the description.	Instruct
Department:	Art & Art History - Studio Arts	Prerequ Restricti
Course:	SA 244C	Descript
Title:	Advanced Photo/Digital Art: Color Printing	
Cross-listed:	SA 244A/244B	
Instructor:	Shindelman, M. Class Size: 10	
Restrictions:	Permission of instructor required	
Description:	Please see SA 244A for the description.	
Department:	Art & Art History Studio Arts	
Course:	SA 262A	
Title:	Advanced Video & Sound Art	
Cross-listed:	SA 262B/262C/FMS 262ABC	
Instructor:	Devereaux, E. Class Size: 10	
<b>Restrictions:</b>	Permission of instructor required	Departn
<b>Description:</b>	Spring 2009. In this advanced production course, video and	Course:
	sound will be considered as independent art forms as well as part	Title:
	of video installations. Students will produce experimental videos	Cross-lis
	and sound pieces. They will also explore the use of these	Instruct
	mediums when combined with two- and three-dimensional	Restricti
	materials in real time. This course will cover both analogue and	Descript
	digital formats. Permission of instructor required. Studio arts	Dense (
	supplies fee: \$50.	Departn Course:
		Course:

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Restrictions: Description:	Art & Art History Studio Arts SA 262B Advanced Video & Sound Art SA 262A/262C Devereaux, E. <b>Class Size:</b> 10 Prerequisite: Two of the following: SA 141, SA 151, SA 152, SA 171. Permission of instructor required Spring 2009. Please see SA 262A for the description.
Department: Course: Title: Cross-listed: Instructor: Restrictions: Description:	Art & Art History Studio Arts SA 262C Advanced Video & Sound Art SA 262A/262B/FMS 262A/262B/262C Devereaux, E. Class Size: 10 Permission of instructor required Spring 2008. Please see SA 262A for the description.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Restrictions: Description:	Art & Art History - Studio Arts SA 263A 3D Digital Time-Based Media SA 263B/263C/FMS 263A/263B/263 C Devereaux, E. Class Size: 10 FMS 161/SA 161 Permission of instructor required Spring 2009. "3D Imaging" introduces the techniques that shape and the theories that inform 3D digital practices. By investigating the unique points of view possible within three- dimensional computer worlds, projects will explore space and time outside of our daily human scale. Techniques covered include 3D modeling, texturing, and animation. Advanced students may independently pursue 3D computer-based production or concentrate exclusively on creating and rigging cyborgs, mecha, or other characters. Final pieces may be created for installation, video, or multimedia applications. Permission of instructor required. Studio arts supplies fee: \$50.
Department: Course: Title: Cross-listed: Instructor: Restrictions: Description: Department:	Art & Art History - Studio Arts SA 263B 3D Digital Time-Based Media SA 263A/263C/FMS 263A/263B/263C Devereaux, E. Class Size: 10 Permission of instructor required Spring 2009. Please see SA 263A for the description. Art & Art History - Studio Arts
Course:	SA 263C

Title: 3D Digital Time-Based Media **Cross-listed:** SA 263A/263B/FMS 263A/263B/263C **Department:** Art & Art History -- Studio Arts Class Size: 10 Course: **Instructor:** Devereaux, E. SA 300 FMS 161/SA 161 Title: **Prerequisites:** Art New York New Media Culture **Restrictions:** Permission of instructor required **Cross-listed:** AH 300 Spring 2009. Please see SA 263A for the description. **Description:** Instructor: Cohen, E. **Prerequisites:** Special application required; permission of school dean required. **Department:** Art & Art History -- Studio Arts **Restrictions:** Permission of instructor required Course: SA 292A **Description:** Spring 2009. This course is an introduction to digital art for Art Title: Markings, Methods, & Materials New York Interns. Permission of instructor required. SA 292B/SA 292C **Cross-listed:** Instructor: Topolski, A. Class Size: 10 **Department:** Art & Art History -- Studio Arts **Restrictions:** Permission of instructor required Course: SA 305K Spring 2009. This course is dedicated to an intense exploration **Description:** Title: Art New York Colloquium of alternative media and to the complex and often contradictory **Cross-listed:** AH 305K ideas surrounding studio production. Students will be expected to **Instructor:** Cohen, E. challenge their preconceived notions of art and to apply rigorous Special application required; permission of school dean required. **Prerequisites:** degrees of experimentation to their own work. The course will **Restrictions:** Permission of instructor required address all phases of art making including the conception of an Spring 2009. As an integral part of the internship program, all **Description:** idea, selection of media, the act of making a mark, the relevant students participating in Art New York will meet weekly in decisions made, the technical execution, the aesthetic impact, the colloquium with the program's resident director. The class will intended audience, the motive and content of the work, the related visit museums, art galleries, film and media screenings, and learn fields of thought, the final presentation, the longevity of its form, from these visits through readings, papers, presentations and discussions. The colloquium will also serve to provide an and the critical afterthought. Required projects will be both process-oriented and product-oriented and will demand intellectual framework for understanding the operations of the thoughtful participation in every stage of production. Individual New York art world and to allow students to discuss with one and group critiques will provide qualitative evaluation and will another their experiences at the various institutions where they aim to be as experimental in structure. Markings, Methods, and intern. Each student will be expected to make a presentation Materials can be taken after successful completion of any 100about their internship to the Art New York group. There will be level studio course. This course may be taken more than once. an entrepreneurial component of the class which will introduce Permission of instructor required. Studio arts supplies fee: \$50. the students to a wide variety of entrepreneurial activity and innovative practices within arts and culture. Through guest **Department:** Art & Art History -- Studio Arts speakers seminars and field trips the students will learn how Course: SA 292B Title: Markings, Methods, & Materials **Cross-listed:** SA 292A/SA 292C Instructor: Topolski, A. Class Size: 10

Class Size: 10

Permission of instructor required

Art & Art History -- Studio Arts

Markings, Methods, & Materials

Permission of instructor required

SA 292C

Topolski, A.

SA 292A/SA 292B

Please see SA 292A for the course description.

Please see SA 292A for the course description.

**Restrictions:** 

**Description:** 

**Department:** 

Instructor:

**Restrictions:** 

**Description:** 

**Course:** 

Title: **Cross-listed:** 

	entrepreneurial endeavors develop. By the end of the semester, the students will create their own proposal for an entrepreneurial project. Permission of instructor required.
Department:	Art & Art History Studio Arts
Course:	SA 391
Title:	Independent Study
Description:	Individual studio work at an advanced level and under the guidance of a member of the Studio Arts faculty. Studio art supplies fee: \$50.
Department:	Art & Art History Studio Arts
Course:	SA 392
Title:	Art New York Internship

Class Size: 15

Class Size: 15

Cross-listed: Instructor: Prerequisites: Restrictions: Description:	AH 392 Cohen, E. Class Size: 15 Special application required; permission of school dean required. Permission of instructor required Spring 2009. Each student will intern in an institution arranged or approved by the Art and Art History faculty. The purpose of this internship is to give students an insiders' view of the workings of the art world. Students will be expected to document their internship experiences as a means of evaluation at the end of the semester. This program is limited to second, third, fourth and fifth year undergraduate students interested in learning about all aspects of contemporary art, about how art gets made, how it reaches its public, and the processes of its interpretation. Internships will consist of 20 hours per week, for which students will receive eight credits. Permission of instructor required.
Department: Course: Title: Instructor: Prerequisites: Restrictions: Description:	Art & Art History Studio Arts SA 397 Senior Studio & SeminarSpring Loughney, P. Class Size: 10 Open to senior majors and minors or by permission of instructor. Permission of instructor required Spring 2009. This class has a seminar and a production component. The seminar component will address contemporary issues in art through readings, discussions and student presentations of cultural theory, art history and art criticism. The production component will consist of the intensive critique of ongoing work, critical writing and the development of a thesis exhibition. Permission of instructor required. Studio arts supplies fee: \$50.

# Biology

Department: Course:	Biology BIO 111	
Title:	Principles of Biology II	
Instructor:	Minckley, R. Class Size: 250	
Prerequisites:	BIO 110 and completion or concurrent enrollment in CHM 132	
Exams:	Three 1 hour exams and a comprehensive final exam	
Coursework:	Three 50 min lectures and one 50 min problem based recitation per week	
Description:	The second semester of the introductory sequence designed for majors in biology. Topics include: Evolution (natural selection, speciation, plant and animal diversity), Ecology (population genetics, ecosystem structure, species interactions), Plant and animal physiology.	

Department: Course: Title: Instructor: Prerequisites: Exams: Coursework: Description:	Biology BIO 111L Introductory Biology Laboratory Minckley, R. Class Size: 250 BIO 110 or BIO 112 and concurrent enrollment in BIO 111 Quizzes, Laboratory report and other assignments, Lab practical Lab meets for one 3 1/2 hour session each week. This is the lab course which accompanies the lecture course Principles of Biology II. The content of the course is drawn from the lecture material. Topics include plant and animal diversity, anatomical dissections, methods in bacteriology, animal behavior, and basic physiology. An emphasis is placed on problem solving, critical thinking and experimental design.
Department: Course: Title: Instructor: Prerequisites: Restrictions: Exams: Coursework: Description:	<ul> <li>Biology</li> <li>BIO 113</li> <li>Perspectives in Biology II</li> <li>Jaenike, J.</li> <li>BIO 112 or AP Biology score of 4 or 5.</li> <li>See course description for specific prerequisties required</li> <li>Four 50 min exams</li> <li>Three 50 min lectures and one 50 min problem based recitation per week</li> <li>Second semester of a two-course introductory sequence for students with a strong background and interest in science. Topics include: evolution, organismal diversity, ecology, and functional biology. This course differs from BIO 111 in that there will be greater emphasis on experimental approaches, data analysis, and quantitative methods, and will include reading original papers. Note both BIO 110 and BIO 112 are designed to prepare students who intend to major in biology. Open only to freshman prospective majors or by permission of instructor.</li> </ul>
Department: Course: Title: Instructor: Prerequisites: Exams: Coursework: Description:	<ul> <li>Biology</li> <li>BIO 113L</li> <li>Perspectives in Biology Lab</li> <li>Minckley, R</li> <li>Concurrent enrollment in BIO 113</li> <li>Quizzes, Laboratory report and other assignments, Lab practical</li> <li>Lab meets for one 3 1/2 hour session each week.</li> <li>This is the laboratory course which accompanies the lecture</li> <li>course Perspectives in Biology II. Course content is drawn from</li> <li>the lecture material and includes biological diversity, ecology,</li> <li>evolution, animal behavior, physiology and bioinformatics.</li> <li>Emphasis is placed on problem solving, critical thinking,</li> <li>experimental design and data analysis.</li> </ul>

Department: Course: Title: Instructor: Prerequisites: Exams: Description:	<ul> <li>Biology</li> <li>BIO 151L</li> <li>Introduction to Biochemistry - Lab</li> <li>Olek, A</li> <li>One year of introductory biology and chemistry (e.g., BIO 110 &amp; 111, CHM 131 &amp; 132). Genetics (e.g., BIO 198) recommended</li> <li>Multiple quizzes and assignments and one practical examination. The course is designed to introduce sophomore biology majors to experimental approaches in biochemistry, including enzyme assays, protein analysis, and the use of antibodies. Students will also develop light microscopic skills, e.g., using fluorescent dyes</li> </ul>	Tit! Ins Pre Exa Cou Des
	in organelle isolation. The laboratory emphasizes experimental design and data analysis and complements BIO 250, Biochemistry. This course can be used to satisfy a $\Omega$ laboratory requirement in the BA and other UPBM tracks.	Dej Cor
Department: Course: Title: Instructor: Prerequisites:	Biology BIO 201 Lectures in Physiology Dietsche, A. <b>Class Size:</b> 20 BIO 110 or BIO 112 and BIO 111 or BIO 113 or permission of the instructor	Titl Cro Ins Pre Exa Cou Des
Exams: Coursework: Description:	Four 50 min exams Three 50 min lectures and one 50 min recitation per week Function of various mammalian systems with special emphasis on humans. Topics include: excitable tissue, respiration, nutrition, reproduction, endocrinology, skeletal, circulatory and renal systems; homeostatic mechanism. Students will attend lecture and take examinations with students in BIO 204, Mammalian Physiology, and attend one hour of mandatory recitation per week. Laboratory exercises will not be conducted.	
Department: Course: Title:	Biology BIO 204 Mammalian Physiology	
Instructor: Prerequisites: Exams: Coursework: Description:	Dietsche, A Class Size: 120 BIO 203 or permission of instructor. Four quarterly exams and lab exam Three 50 min lectures and one 3 hour laboratory per week Function of various mammalian systems with special emphasis on humans. Topics include: excitable tissue; respiration; nutrition; reproduction; endocrinology; skeletal, circulatory and renal systems; homeostatic mechanisms. Three 50 minute lectures and one 3-hour laboratory per week.	Dep Cou Titl Cro Ins Pre Res Exa Cou Des
Department: Course:	Biology BIO 215	Des

Title: Instructor: Prerequisites: Exams: Coursework: Description:	Molecular Biology of Cell Signalling Jasper, H BIO 198. One of the following is strongly recommended: BIO 202, BIO 250 Two exams: midterm and end of semester Two 75-min lectures and one 50 min recitation per week This course offers an introduction to cell signalling. We will explore basic molecular mechanisms of signal transduction, and study how these mechanisms are used in different contexts to direct cell fate during development, physiology and disease. The course will draw heavily on experiments from the classic and most recent primary literature.	
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Exams: Coursework: Description:	Biology BIO 232 Genetic Diversity and Human Disease BIO 432 Fry, J. Class Size: 45 BIO 198 Three hour exams and one final Two 75 minute lectures and an optional recitation per week Since the completion of this first draft of the human genome sequence in 2001, information on human genetic diversity and its relationship to trait variation (e.g., disease susceptibility) has been accumulating at an astonishing rate, aided by ever- improving methods for rapidly assessing genetic differences among individuals. This course will provide an overview of the methods and findings of this recent research. Topics include: 1) the molecular basis and evolutionary history of single-gene disorders (e.g., cystic fibrosis and sickle-cell anemia); 2) the genetics of traits influenced by multiple genes, such as common disorders like diabetes and schizophrenia and easily observable traits like height and skin color; and 3) the use of genetic information to reconstruct human evolution and migrations.	
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Restrictions: Exams: Coursework: Description:	Biology BIO 243 Eukaryotic Gene Regulation IND 443, BIO 443 Bi, X., Benyajati, C., Benyajati, C. <b>Class Size:</b> unlimited BIO 198 and BIO 250; good knowledge of molecular biology Not open to freshmen and sophomores Two 2-hour exams Two 75-minute lectures and a 1-hour recitation per week This advanced course examines mechanisms of transcription initiation, eukaryotic chromosome structure and its modifications, mechanisms of abrometic mediated recruition of seme	

mechanisms of chromatin-mediated regulation of gene

expression, as well as epigenetics and functional genomics. Lectures and readings draw heavily on primary literature both classic and most recent. IND 443 and BIO 443 students are required to give a 30 minute presentation on a selected topic.

Department: Course: Title: Instructor: Prerequisites: Exams: Description:	<ul> <li>Biology</li> <li>BIO 247</li> <li>Environmental Animal Physiology</li> <li>Olek, A</li> <li>One year of introductory biology and chemistry (e.g., BIO 110 &amp; BIO 111, CHM 131 &amp; CHM 132). Genetics (e.g. BIO 198) recommende</li> <li>Two or three semester exams and one final exam.</li> <li>This course is designed for sophomore biology majors who want to deepen their understanding of animal function by examining how animals cope with environmental challenges. This includes cellular and physiological adaptations to extremes of temperature, salinity, and altitude. This course can be used to satisfy an upper level elective/diversity requirement in all UPBM tracks and as a "group" A requirement in the BA track.</li> </ul>	D C T C Ir P D
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Restrictions: Exams: Coursework: Description:	<ul> <li>Biology</li> <li>BIO 250</li> <li>Introduction to Biochemistry</li> <li>BIO 450</li> <li>Culver, G.</li> <li>BIO 110 or BIO 112, plus BIO 198, CHM 203 and CHM 204 (may be taken concurrently) or permission of instructor</li> <li>Not open to freshmen</li> <li>Three 50 min exams and a comprehensive final exam</li> <li>Three 50 min lectures plus ten 2-hour workshops</li> <li>Biochemistry 250 will cover fundamental aspects of</li> <li>biochemistry, including bioenergetics, protein structure, kinetic analysis of enzyme action, and general intermediary metabolism.</li> <li>The text will be the 5th edition of Lehninger's "Principles of</li> <li>Biochemistry" by Nelson and Cox, with its accompanying Web site, which includes access to CHIME tutorials that explore structure- function relationships in biomolecules.</li> </ul>	D C T Ir P D
Department: Course: Title: Instructor: Prerequisites: Description:	Biology BIO 255 The Biochemistry of Male-Female Differences in Health and Disease Prof. Terry Platt Class Size: 40 BIO 250 In many instances, women display different biochemical patterns than men in their metabolic responses to foods, nutrients, drugs,	D C T C Ir P

and other macromolecules, as well as to certain diseases. This course is designed to examine the relatively uncharted territory of such biochemical differences between males and females that are a consequence of their sex. Topics to be covered include alcohol metabolism, lipid metabolism, cardiovascular disease, osteoporosis, Parkinsons disease, the cytochrome p450 system, and gene expression. Lecture and discussions will be integrated with areas of environmental and public health concern. [Note: The course will NOT be concerned with anatomical or physiological sexual responses, sexual development, or aspects of reproduction per se.]

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Biology BIO 265 Molecular Evolution BIO 465 Presgraves, D BIO 111 or BIO 113, BIO 198, BIO 2 This course explores evolution at the use basic evolutionary principles to ir sequences; to determine what forces H genes and genomes; to understand the molecular evolution and phenotypic e applied problems, like assigning biolo sequences, finding the sources of epic genes involved in human disease.	molecular level. We will fifer history from DNA have shaped the evolution of e relationship between evolution; and to address ogical function to genome
Department: Course: Title: Instructor: Prerequisites: Description:	Biology BIO 266 Tree of Life Glor, R. BIO 111 and BIO 113 This course will be centered around a with an emphasis on understanding pl trends in diversity over macroevolutio comparative methods to address topic convergent evolution. Methods for re trees (e.g., neighbor-joining, parsimon Bayesian), and the application of thes macroevolutionary questions will be re	hylogenetic relationships, onary time, and the use of es such as adaptation and econstructing phylogenetic ny, maximum likelihood, se trees to
Department: Course: Title: Cross-listed: Instructor: Prerequisites:	Biology BIO 268 Laboratory in Molecular Genetics BIO 468 Benyajati, C Permission of instructor	Class Size: 24

Restrictions: Exams: Coursework: Description: Permission of instructor required Laboratory reports and other assignments Two 4-hour labs and one 1-hour recitation per week A series of experiments, each lasting two to three weeks, introducing various organisms and techniques. Emphasizes (i) data acquisition and analysis (ii) experience in the design and execution of experiments, writing scientific reports, and public scientific presentation.

### **Brain & Cognitive Sciences**

Department: Course: Title: Prerequisites: Description:	Brain & Cognitive Sciences BCS 111 Foundations of Cognitive Science <b>Class Size:</b> 50 None. NOTE: PSY MAJORS, SEE BCS/PSY 112. Introduces the organization of mental processes underlying cognition and behavior. Topics include perception, language, learning, memory and intelligence. This course integrates knowledge of cognition generated from the field of cognitive psychology with findings from artifical intelligence and cognitive neuroscience.
Department:	Brain & Cognitive Sciences
Course:	BCS 112
Title:	Cognitive Psychology
Cross-listed:	PSY 112 Class Size: 90
Prerequisites:	Recommended for PSY majors. Students who have already taken BCS 111 CANNOT receive credit for BCS/PSY 112.
Description:	Provides an introduction to basic concepts in modern cognitive psychology. Topics covered include pattern recognition, attention and memory, concepts and categories, language comprehension and production, and higher-level thinking, such as reasoning and decision making.
Department:	Brain & Cognitive Sciences
Course:	BCS 153
Title:	Cognition
<b>Cross-listed:</b>	PSY 153
Instructor:	Bavelier, D. Class Size: 45
Prerequisites:	BCS/PSY 110 REQUIRED; BCS 111 or BCS/PSY 112
	recommended
Coursework:	Lectures, readings from a text and supplementary materials.
	Evaluation will be based primarily on the results of four multiple
	choice exams, including the final.
Description:	Considers human cognitive processes, including behavioral and computational methods used to understand the nature of cognition. Explores how we perceive and integrate sensory

information to build a coherent perception of the world; how we memorize and retrieve information; how we reason and solve problems.

Department:Brain & Cognitive SciencesCourse:BCS 203WTitle:Lab in NeurobiologyCross-listed:NSC 203Instructor:Nordeen, K.Class Size: 16/sectionPrerequisites:BCS 200, 240 (NSC 201) and 240L, or equivalent background with permission of instructor.
Instructor:Nordeen, K.Class Size: 16/sectionPrerequisites:BCS 200, 240 (NSC 201) and 240L, or equivalent background
Prerequisites: BCS 200, 240 (NSC 201) and 240L, or equivalent background
<b>Restrictions:</b> Permission of instructor required
<b>Exams:</b> Quizzes, practica, take-home exercises and 3-4 papers, written in
journal format
<b>Description:</b> Introduces the various methods used in neurobiological research. Covers anatomical, behavioral, chemical, and physiological approaches to studying neural organization and function and concludes with a research project that extends over a period of five weeks.
Department: Brain & Cognitive Sciences
Course: BCS 208W
Title:         Lab in Perception & Cognition
Cross-listed: CVS/PSY 208W
Instructor:Tadin, D.Class Size: 20 (cap)Prerequisites:BCS 200 AND either BCS 151 or BCS 153
<b>Description:</b> Introduces observational studies of perceptual and cognitive
phenomena, showing how scientific questions can be answered
by making such observations. Students perform, analyze, interpret, and report results from seven experiments conducted in
a sequence that gradually increases the independence of the
student experimenters.

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Brain & Cognitive Sciences BCS 220 The Intelligent Eye CVS 220 Knill, D. BCS 151 Provides an interdisciplinary view of modern research into how the human brain solves the problems involved in perception, including how we perceive the three- dimensional structure of the world, how we recognize objects and how visual information is used to control action in the world. Students read contemporary research and, through classroom discussion and critical essays, explore and analyze the questions and debates that define contemporary perceptual science.	Depart Course Title: Cross-I Instruc Prereq Descrij
Department: Course: Title: Cross-listed:	Brain & Cognitive Sciences BCS 232 Artificial Intelligence CSC 242	Course Title: Cross- Instrue Prereq
Instructor: Description:	Brown, C. Same as CSC 242. See description in Computer Science listing.	Exams Course
Department: Course: Title: Cross-listed: Instructor: Description:	Brain & Cognitive Sciences BCS 236 Machine Vision CSC 249 Nelson, R. Same as CSC 249. See description in Computer Science listing.	Descri
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Brain & Cognitive Sciences BCS 242 Neuropsychology NSC/PSY 242 Como, P. <b>Class Size:</b> 35 BCS 110 or BCS 240 (NSC 201) or permission of the instructor. Examines clinical neuropsychology, which bridges neurology, neuroscience, and clinical psychology. Covers history of clinical neuropsychology, principles of neuropsychological assessment, and the interpretation of cognition and behavior as they relate to brain dysfunction. Considers specific neurological syndromes including neurodegenerative, cerebrovascular, toxic, and memory disorders; epilepsy; head trauma; toxic disorders; infectious processes; pediatric neuropsychology. Patient presentations (videotape and in-person interviews) supplement lectures.	Depart Course Title: Cross- Instrue Prereq Exams Course

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Brain and Cognitive Science BCS 244 Neuroethology NSC 244 Holtzman, D. BCS 240 (NSC 201) or permission of instructor Explores the neural basis of naturally occurring animal behaviors. Emphasizes how information is integrated from interactions between molecules, cells, and groups of cells, all of which are necessary to produce behavior. Considers how hormones, neural development, anatomy, physiology, and evolution lead to behaviors such as orientation, communication, feeding, and reproduction.		
Department:	Brain & Cognitive Sciences		
Course:	BCS 245		
Title:	Sensory & Motor Neuroscience		
Cross-listed:	NSC/CVS 245		
Instructor: Prerequisites:	DeAngelis, G. Class Size: 35 NSC 201 (BCS 240) Basic Neurobiology, or acquivalent		
r rerequisites:	NSC 201 (BCS 240), Basic Neurobiology, or equivalent background with instructor's permission.		
Exams:	2 mid-terms and a final exam		
Coursework:	Lectures and reading from a text and selected journal articles.		
Description:	Focuses on how single neurons and populations of neurons represent sensory information, how sensory signals are transformed and decoded to mediate perception, and how perceptual signals are converted into neural commands to initiate actions. Explores how simple behaviors (such as detection and discrimination) can be quantified and explained in terms of neural activity. Introduces students to quantitative approaches for linking neural activity to perception and decision-making. Emphasizes studies of the visual, oculomotor, and somatosensory systems, with some attention to the auditory and vestibular systems as well.		
Department: Course:	Brain & Cognitive Sciences BCS 249		
Title:	BCS 249 Developmental Neurobiology		
Cross-listed:	NSC 249		
Instructor:	Nordeen, E. Class Size: 30		
Prerequisites: Exams:	BCS 240 (NSC 201) 3 exams and an optional paper		
Coursework:	Lectures, reading assigned from a text and other assigned sources		
	in the research literature. Typically, 3 exams are given and		
	students have the opportunity to prepare a paper on a research		
	subject of their choice.		

Description:	Advanced treatment of the development of the nervous system, including the nature/nurture issue and factors that influence the development of neural organization and function. Topics include the production, migration, differentiation and survival of neurons; functional specialization of neural regions; axonal navigation; target mapping. Compares and contrasts developmental plasticity with forms of neural plasticity exhibited in adults. Prerequisite: BCS 240 (NSC 201), or equivalent background.	Department: Course: Title: Cross-listed: Prerequisites: Description:	language production and comprehension, including how speakers choose words and phrases and how listeners understand them. Brain & Cognitive Sciences BCS 264 Signed Language Structure ASL 200/LIN 230 ASL 105, LIN 210, 220, or 226; or permission of the Instructor Examines signed languages and the cognitive constraints that
Department:	Brain & Cognitive Sciences	Description.	shape them, through a detailed consideration of the structure of
Course:	BCS 259		American Sign Language and other natural signed languages of the world. Includes training in sign language notation and
Title: Cross-listed:	Language Development PSY 259, ASL/LIN 208		the world. Includes training in sign language notation and analysis. Knowledge of sign language is not required.
Instructor:	White, K. Class Size: 50		analysis. Knowledge of sign language is not required.
Prerequisites:	One of the following: BCS 110, or BCS 111, or BCS 172, or PSY	Department:	Brain & Cognitive Sciences
Exams:	101, or LIN 110, or equivalent background.	Course:	BCS 265
Exams: Coursework:	2 midterms and a final: all essay Reading from the text plus articles from the research literature.	Title: Cross-listed:	Language and the Brain PSY 265/LIN 218
Description:	Introduces children's language development, including the	Prerequisites:	BCS 110 or NSC 201 and BCS 152 or LIN 110
Description	acquisition of phonology, syntax, and semantics. Focuses on the	Description:	Examines how the comprehension and production of language is
	acquisition of a first language by young children, comparing the	L	implemented in the human brain. Uses evidence from
	acquisition of a variety of spoken and signed languages to find		neuropsychological and brain imaging studies to consider the
	possible universal principles of language learning.		following questions: What is the network of brain areas that subserves language processing? What are the specific functions
Department:	Brain & Cognitive Sciences		of these areas? What happens when these brain areas are
Course:	BCS 260		damaged? What is the timing of brain activity in these areas
Title:	Music and the Mind		during language processing? Finally, how do the brain areas
<b>Cross-listed:</b>	MUR 260, TH 260		involved in language processing overlap with those involved in
Instructor:	Marvin, E.		other complex cognitive processes?
<b>Prerequisites:</b>	One semester of collegiate music theory for majors (MUR 111,		
	TH 101) or permission of instructor.	Department:	Brain & Cognitive Sciences
Description:	Introduction to the discipline of music cognition. Topics include	Course:	BCS 310
	empirical methods, psycho-acoustic principles, influence of	Title:	Senior Seminar Holtzman, D. Class Size: 15
	Gestalt psychology, music and language, metric and tonal hierarchies, music and the brain, aspects of musical development,	Instructor: Prerequisites:	Holtzman, D. Class Size: 15 Declared BCS concentrators, senior status.
	and research on musical memory, expectation, and emotion.	Restrictions:	Open only to senior majors or by permission of instructor
	and research on musical memory, expectation, and emotion.	Exams:	No exams. Papers and presentations.
Department:	Brain & Cognitive Sciences	Coursework:	Seminar format.
Course:	BCS 261	Description:	A 2-credit-hour course required of all senior BCS majors who do
Title:	Language Use and Understanding	×	not enter the honors program. Emphasizes reading, evaluating,
<b>Cross-listed:</b>	PSY261/LIN 241		and discussing primary research papers. Each student chooses a
Instructor:	Tanenhaus, M.Class Size: 30		topic, becomes familiar with it, selects a classic paper, leads a
Prerequisites:	BCS 110 or BCS 111 or BCS 112, and BCS 152		class discussion, and writes an evaluation of the paper as though
<b>Description:</b>	Explores the cognitive mechanisms used to speak and understand		providing peer review for a journal.
	language, with a special focus on contextually situated language use. Studies the moment-by-moment processes underlying	Department:	Brain & Cognitive Sciences
		Course:	BCS 311

Title:	Honors Seminar		
Instructor:	Holtzman, D.		
<b>Restrictions:</b>	Permission of Department required		
Coursework:	Seminar format.		
Description:	A 2-credit course required of seniors in the BCS Honors program. Students choose a classic paper for the class to read, lead a discussion of it, and give a formal oral and written presentation of their honors theses. To be taken in the semester the honors thesis is completed. See BCS 310 and refer to the Undergraduate Programs Coordinator in the Dept. of Brain & Cognitive Sciences for more information.		
Department:	Brain & Cognitive Sciences		
Course:	BCS 389		
Title:	Vision Science Research & Colloquium		
Cross-listed:	CVS 389		
Instructor:	Williams, D. Class Size: 10		
<b>Restrictions:</b>	Permission of instructor required		
Coursework:	Students attend meetings of the Center for Visual Science Research Seminars and colloquia. In consultation with a faculty mentor, a review paper or other appropriate research project is		
	undertaken.		
Description:	A 2-credit hour course. Intended for students who are engaged in research in the Center for Visual Science and who may be considering a career in research. Provides exposure to the research environment of the Center through the regular research meetings and colloquia attended by CVS graduate students, postdocs, and faculty. Students also complete a paper on a vision- related topic. No prerequisites. Same as CVS 389.		

### Chemistry

Department:	Chemistry		
Course:	CHM 132		
Title:	Chemical Concepts, Systems and Practices II		
Instructor:	Turner, D. H. ,Farrar, J.	Class Size: 350	
Prerequisites:	CHM 131 or CHM 151		
<b>Restrictions:</b>	Permission of instructor required		
Exams:	Three Exams and a Final		
Description:	A continuation of Chemical Concepts, Systems and Practices I,		
	emphasizing molecular and macroscopic approaches to chemical		
	systems with examples concerned with energy and the		
	environment. Topics covered include: Chemical kinetics,		
	electrochemistry, thermodynamics, pro	operties of atoms, atomic	
	structure, and chemical bonding. MWF - Turner : Three 50		
	minute lectures per week. T R - Farrar	: Two 75 minute lectures	
	per week. In addition, there is a three	hour laboratory every	

week, a 50 minute laboratory lecture and a 50 minute recitation. You must register for the laboratory prior to the start of the semester. The laboratory is identical for both sections. Recitations will be assigned in the main lecture during the first week of classes.

Department: Course: Title: Instructor: Prerequisites: Coursework: Description:	Chemistry CHM 172Q Quest Organic Chemistry Nilsson, B. Two years of General Chemistry and Advanced Placement score 4 or 5 or equivalent preparation. Two years of General Chemistry and Advanced Placement score 4 or 5 or equivalent preparation CHM 171Q / 172Q/173Q is a one year exploration of the basic observations, concepts and practice of organic chemistry, with a focus on the fundamental relationships among molecular structure and chemical reactivity. The exploration will require that students grapple Quest issues: defining questions, evaluating evidence, weighing arguments, reflecting on epistemological issues, constructing new experiments, etc. The study of organic chemistry will be carefully integrated with a review of the key
	concepts from general chemistry. Quest Organic is designed for first year students with good preparation in chemistry (e.g., two years of General Chemistry and Advanced Placement score 4 or 5, or equivalent preparation).
Department: Course: Title:	Chemistry CHM 204 Organic Chemistry II
Instructor:	Frontier, A. Class Size: 300
Prerequisites:	CHM 203 or the equivalent plus one semester of organic laboratory (CHM 207 or equivalent).
<b>Restrictions:</b>	See course description for specific prerequisites required
Exams:	Three 1-hour Exams and a Final.

A continuation of a two-semester sequence in the study of organic chemistry. Topics covered include the reactivity of various functional groups, approaches to organic synthesis, reactivity of conjugated systems and molecules of biological significance. There are two 75 minute lectures and one workshop per week. Coregistration in CHM 208 or CHM 210. Grade of C or better in CHM 203 (or equivalent).

Department:	Chemistry	
Course:	CHM 208	
Title:	Organic Chemistry II Laboratory	
Instructor:	Toder, B.	Class Size:

**Description:** 

Prerequisites: Exams: Description:	CHM 207 or 173Q; Coregistration in CHM 204 Periodic quizzes at the beginning of the laboratory period. A continuation of the laboratory sequence begun in CHM 207. This laboratory meets one laboratory period per week. There is	Description:	Credit - 4 hours. Advanced laboratory techniques of synthesis, characterization, and analysis applied to problems in inorganic and organic chemistry.
	one 2-hour 40 minute laboratory and a 50 minute laboratory lecture per week.	Department: Course: Title:	Chemistry CHM 250 Introduction to Biochemistry
Department:	Chemistry	Cross-listed:	BIO 250, CHM 450
Course: Title:	CHM 208	Instructor:	Bren, K.
Instructor:	Organic Chemistry II: Laboratory Toder, B.	Prerequisites: Description:	1 semester of organic chemistry An introduction to biochemistry. Topics to be covered include
Prerequisites:	General Chemistry Otherwise, permission of instructor is required.	Description.	protein and nucleic acid structure, recombinant DNA technology, bioenergetics, enzyme kinetics and mechanism, and intermediary
Description:	A continuation of the organic laboratory sequence begun in CHM 207. Coregistration in the requisite lecture course is CHM 204 if		metabolism. Lectures are supplemented with workshops. Students cannot receive credit for CHM 250 AND CHM 262/462.
	necessary. Each student taking the laboratory must pay a lab fee $af $50$	Depentments	Chamister
	of \$50.	Department: Course:	Chemistry CHM 252
Department:	Chemistry	Title:	Physical Chemistry II
Course:	CHM 210	Instructor:	Ovchinnikov, M. Class Size: 50
Title:	Organic Chemistry IIH Laboratory	Prerequisites:	PHY 113/114 or 121/122 CHM 132 or equivalent preparation
Instructor: Prerequisites:	Dinnocenzo, J. Class Size: 60 CHM 207 or 173Q; Coregistration in CHM 204	Exams: Description:	2 Exams and Final The course covers thermodynamics, equilibrium, statistical
Description:	A laboratory using advanced, modern experimental techniques. This laboratory is required for chemistry majors. There are two 3-hour laboratories and a laboratory lecture per week.	Description:	mechanics, solutions, and chemical kinetics. Weekly, there are three 50-minute lectures and one recitation sesson. Weekly problem sets are assigned.
Department:	Chemistry	Department:	Chemistry
Course:	CHM 232	Course:	CHM 262
Title:	Molecular Spectroscopy Laboratory	Title:	Biological Chemistry
Instructor:	Rothberg, L.	<b>Cross-listed:</b>	CHM 462
Prerequisites:	CHM 251 is an absolute prerequisite	Instructor:	Bren, Kara
Exams: Description:	Two Exams & Five Laboratory Reports. Credit - 4 hours. A thorough study of the principles and practice of spectroscopic methods of modern physical chemistry. Three lectures, one lab per week.	Prerequisites: Description:	Minimum of one semester of organic chemistry required. An introduction to the chemical processes of life. Topics to be covered include proteins and nucleic acids, recombinant DNA technology, biological catalysis, and energy transduction. Structure and function of biological macromolecules will be
Department:	Chemistry		emphasized. Students will not receive credit for BIO 250 AND
Course:	CHM 234		CHM 262/462.
Title:	Advanced Laboratory Techniques		
Instructor: Prerequisites:	Holland, P. Class Size: 24 CHM 211 and an Organic Chemistry Lab	Department: Course:	Chemistry CHM 352
Exams:	Two Problem Sets	Title:	Issues in Workshop Leadership
Coursework:	Four lab reports. There are two or three 75-minute lectures for	Cross-listed:	CAS 352
	each lab.	Instructor: Description:	Dinnocenzo, J., Perez, C.,Goodman, J.,Perez, C., ,Goodman, J. A 2-credit course to prepare students to be effective Workshop leaders in chemistry courses. Topics include: group dynamics;

diversity; student development; learning theory; cognitive apprenticeship; metacognition and constructivism. These ideas are developed and applied in the context of Workshop practice. Cross-listed as CAS352. The class meets for 1.5 hours each week in the semester in which students are leading Workshops. Readings from the research literature, class discussion and a research paper and presentation are required.

Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Chemistry CHM 404 Bio-Physical Chemistry II Turner, D. CHM 252 or its equivalent Midterm & Final, Paper & Presentation. This course explores how fundamental interactions determine the structure, dynamics, and reactivity of proteins and nucleic acids. Examples are taken from the current literature with emphasis on thermodynamic, kinetic, theoretical, and site-directed mutagenesis studies.
Department:	Chemistry
Course: Title:	CHM 412 Advanced Inorganic Chemistry II
Instructor:	Bren, K.
Prerequisites:	CHM 211 or CHM 411
Description:	Molecular and electronic structure determination of inorganic compounds and metal complexes; spectroscopic and physical methods.
Department:	Chemistry
Course:	CHM 414
Title:	Bio-Inorganic Chemistry Holland, P. Class Size: 30
Instructor: Prerequisites:	CHASS Size: 50 CHM 211 / CHM 411 or a course in inorganic chemistry or by permission of the instructor.
Coursework:	Problem sets, proposal
Description:	Discussion of the role of metal ions in biological systems, especially enzymes. Uptake and regulation of metals, common spectroscopic techniques used for studying metals, and mechanisms through which they react. Other topics include metal ion toxicity, metal-based drugs, and interaction of metals with nucleic acids.
Department:	Chemistry
Course:	CHM 422
Title: Instructor:	Nuclear Magnetic Resonance Spectroscopy Bren, K.

**Description:** An introduction to NMR spectroscopy. Collection, processing, and interpretation of homonuclear and heteronuclear 1D and multidimensional spectra will be covered. Topics to be discussed include chemical shifts, relaxation, and exchange phenomena. Examples from organic, inorganic, and biological chemistry will be used. **Department:** Chemistry Course: CHM 423 Title: Organometallic Chemistry Class Size: 30 **Instructor:** Jones, W. **Prerequisites:** CHM 421 **Description:** Mechanisms in organometallic reactions. Applications of organometallic compounds in homogeneous catalysis, polymerization, metathesis. (Spring, second half-semester) Chemistry **Department:** Course: CHM 424 Title: Physical Methods in Inorganic Chemistry Instructor: Holland, P. Class Size: 30 **Prerequisites:** CHM 211/411 or a course in inorganic chemistry or by permission of the instructor. CHM 422 is strongly recommended. **Description:** Molecular and electronic structure determination of inorganic compounds and metal complexes; spectroscopic and physical methods (spring-2nd half semester) Chemistry **Department: Course:** CHM 426 Title: **Organic Structure Determination Techniques** Goodman. J. Instructor: CHM 422 **Prerequisites: Description:** The modern methods and tools employed for the determination of the structure of complex organic molecules will be discussed. Among the areas discussed are basic NMR, IR, UV and mass spectroscopy. Problem solving techniques will be illustrated and problem solving skills developed by means of problem sets and class examples. (spring-2nd half semester) **Department:** Chemistry Course: CHM 434 Title: Advanced Physical Organic Chemistry II Goodman, J. Class Size: 25 Instructor: **Prerequisites:** CHM 203/CHM 204 or equivalent Exams: Two Hour Exam & Final Exam **Coursework:** Readings in text ("Determination of Organic Reaction Mechanisms," B.K. Carpenter); Problem sets (about four during the semester). Two 75 minutes lectures per week.

Description:	Structure and reactivity; kinetic, catalysis, medium effects,transition state theory, kinetic isotope effects, photochemistry, reactive intermediates, and mechanisms.
Department: Course: Title: Instructor: Prerequisites: Description:	Chemistry CHM 436 Applications of Organometallic Chemistry to Synthesis Boeckman, R. Class Size: 15 CHM 422 The transition metal mediated organometallic reactions most commonly employed in organic synthesis will be discussed including their substrate scope, mechanism, and stereo- and/or regiochemical course. Emphasis will be placed on the practical aspects such as catalyst and reaction condition selection, and protocols for trouble shooting catalytic cycles. (spring 1st half semester)
Department: Course: Title: Instructor: Exams: Coursework: Description:	Chemistry CHM 438 Synthetic Design: Strategy and Tactics Boeckman, R. One-Two, One hour Exams and Final Exam. Two - 1 1/4 hour Lectures A formalism describing commonly employed strategies and tactics for the analysis of complex problems in organic synthesis will be presented. Examples of such strategies will be compared and contrasted during discussion of published complex molecule syntheses. (spring second half of semester)
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Chemistry CHM 462 Biological Chemistry CHM 262 Bren, Kara Minimum of one semester organic chemistry required. An introduction to the chemical processes of life. Topics to be covered include proteins and nucleic acids, recombinant DNA technology, biological catalysis, and energy transduction. Structure and function of biological macromolecules will be emphasized. Students will not receive credit for CHM 462/262 AND BIO 250.
Department: Course: Title: Cross-listed: Instructor:	Chemistry CHM 466 Nuclear Science and Technology I PHY 446 Schroder, W. Class Size: 15

Prerequisites: Exams: Description:	Familiarity with Mechanics, Quantum Mechanics, Thermodynamics, Calculus, Midterm and a Final Nuclear technologies of measurement, accelerators and radiation detection, effects and applications of radiation. Fundamental particles interactions, quark model. Nuclear masses, sizes, and shapes. Overview of microscopic and macroscopic models of the nucleus. Nuclear radioactivity and decay modes. Introduction to nuclear reaction theory, classical potential scattering, semi- classical and quantal models of scattering, nuclear excitation, and mass transfer. Mathcad computer projects. Two 75 minute lectures per week, home work problems, and computer simulations.
Department: Course: Title: Instructor: Prerequisites: Exams: Coursework: Description:	Chemistry CHM 456 Chemical Bonds: From Molecules to Materials Krauss, T.D. CHM 251 or an equivalent course on introductory quantum mechanics. Final Lectures: 2 weekly of 75 minutes An introduction to the electronic structure of extended materials systems from both a chemical bonding and a condensed matter physics perspective. The course will discuss materials of all length scales from individual molecules to macroscopic three- dimensional crystals, but will focus on zero, one, and two dimensional inorganic materials at the nanometer scale. Specific topics include semiconductor nanocrystals, quantum wires, carbon nanotubes, conjugated polymers and their application to solar energy conversion.

# **Clinical & Social Sciences in Psychology**

Department:	Clinical & Social Sciences in Psychology		
Course:	CSP 161		
Title:	Social Psychology & Indiv	idual Differences	
Cross-listed:	PSY 161		
Instructor:	Rempala, D.	Class Size: open	
Exams:	3 exams, two-page paper/five-page paper - optional		
Description:	An introduction to the field of social psychology and an overview		
	of research on individual differences in personality. Topics		
	include the self, attitudes, social cognition, emotion, interpersonal		
	attraction, relationships, helping, social influence, group		
	· .	differences among people. Students vidual difference measures and receive	

	individualized feedback at the en- lectures augmented with discussion	ons and demonstrations.		examined in a variety of contexts, groups, and schools, and issues pe and cognitive development are dis	rtaining to biological, social,
Department:	Clinical & Social Sciences in Psychology			Clinical & Social Sciences in Developer	
Course:	CSP 211	la in Davishala av	Department: Course:	Clinical & Social Sciences in Psyc	chology
Title: Cross-listed:	Introduction to Statistical Method PSY 211	is in Psychology	Title:	CSP 280 Clinical Psychology	
Instructor:	TBA	Class Size: 60	Cross-listed:	PSY 280	
Description:	Introduction to the use of statistic		Instructor:	Manly, J.	Class Size: open
Description	Topics include descriptive statisti		Prerequisites:	PSY 101, PSY 282 or PSY 289	Chast Sheet open
	and inferential statistics. Exampl	e .	Exams:	2 midterms	
	personality psychology. Logic of		Coursework:	1 paper	
	interpretation of research finding	s are emphasized. NOTE:	<b>Description:</b>	An introduction to the field of clin	ical psychology. Students will
	Total CAP CSP/PSY 211: 60			be exposed to prevalent theoretical	
				as approaches and research finding	gs to assessment and diagnosis,
Department:	Clinical & Social Sciences in Psy	rchology		and treatment modalities.	
Course:	CSP 219W				
Title:	Research Methods in Psychology		Department:	Clinical & Social Sciences in Psyc	chology
Cross-listed: Instructor:	PSY 219W	Class Size: 25	Course: Title:	CSP 282	
Prerequisites:	Rogge, R. CSP/PSY 211	Class Size: 23	Cross-listed:	Abnormal Psychology PSY 282	
Exams:	Final		Instructor:	Burnette, M.	Class Size: 150
Coursework:	Lab reports		Restrictions:	Open to freshmen only	
Description:	Hands-on introduction to the prod	cess of conducting research in	Exams:	3 or 4 exams	
•	personality and social psychology		<b>Description:</b>	Provides a conceptual overview to	
	techniques, correlational methods			We will discuss assessment and di	
	analysis, and ethical issues. Labo			developmental course, treatment, a	
	interpretation and presentation of	research findings. Fulfills		psychological disorders. Current th	heory and research will be
	upper level writing requirement.			emphasized.	
Department:	Clinical & Social Sciences in Psy	chology	Department:	Clinical & Social Sciences in Psyc	chology
Course:	CSP 262		Course:	CSP 283	
Title:	Human Motivation and Emotion		Title:	Behavioral Medicine	
Cross-listed:	PSY 262		Cross-listed:	PSY 283, PSY 283W & CSP 283V	
Instructor:	Niemec, C.	Class Size: open	Instructor:	Patrick, H.	Class Size: open
Prerequisites:	CSP/PSY 161 or 181		Prerequisites:	PSY 101	
<b>Description:</b>	A study of the motivational and e	-	<b>Description:</b>	Explores the application of psycho	
	that underlie both adaptive and m consideration of research largely			clinical practice to specific health the role of psychology in the prom	
	consideration of research largery	with numan subjects.		physical health and well-being, as	
Department:	Clinical & Social Sciences in Psy	chology		physical illnesses, including chron	
Course:	CSP 278			cancer, and AIDS. While the cours	
Title:	Adolescent Development			relevent physiology and psychoph	
<b>Cross-listed:</b>	PSY 278			various disorders will be discussed	
Instructor:	Rempala, D.	Class Size: 110			
<b>Description:</b>	This course surveys theory and re		Department:	Clinical & Social Sciences in Psyc	chology
	development during adolescence.	Adolescent development is	Course:	CSP 309	

Title: Cross-listed: Instructor:	Honors Seminar PSY 309 McAdam, D.,Klorman, R.	Description:	This course provides guided, direct experiences with research on adolescent development, with a particular focus on adolescence in the context of family relationships.
<b>Prerequisites:</b>	PSY 101, STT 211		
Restrictions: Coursework:	Permission of Department required Oral presentations, class discussion, written report.	Department: Course:	Clinical & Social Sciences in Psychology CSP 374
Description:	The intent of this course is to inform students about the range of	Title:	Exploring Research in Social Psychology II
2.000119.0000	research conducted by faculty. Students participate in the	Cross-listed:	PSY 374, PSY 374W & CSP 374W
	following individual and group projects: geneology/history of	Instructor:	Elliot, A.
	psychology, applied statistical methods and experimental design,	Restrictions:	Permission of instructor required
	state-of-the-art research critiques, research ethics, scientific writing. This is meant to help students who wish to participate in the honors program to make an informed choice about the area	<b>Description:</b>	First-hand team experience with ongoing research in social psychology areas.
	for their honors thesis.	Department:	Clinical & Social Sciences in Psychology
		Course:	CSP 378
Department:	Clinical & Social Sciences in Psychology	Title:	Exploring Research in Family Psychology II
Course: Title:	CSP 311 Honors Research II	Cross-listed: Instructor:	PSY 378 Davies, P.
Cross-listed:	PSY 311	Restrictions:	Permission of instructor required
Instructor:	McAdam, D.,Klorman, R.	<b>Description:</b>	A continuation of CSP/PSY 377.
<b>Restrictions:</b>	Permission of instructor required		
Exams:	Honors thesis	Department:	Clinical & Social Sciences in Psychology
Description:	Second part of research requirement for Honors degree. The student performs independent research under the guidance of a	Course: Title:	CSP 385 Practicum in Developmental Disabilities
	chosen faculty advisor and writes a research report. The report is	Cross-listed:	PSY 385
	evaluated by the advisor and Honors Coordinator as a partial	Instructor:	Bennetto, L.
	requirement for an Honors Degree in Psychology	<b>Restrictions:</b>	Permission of instructor required
-		<b>Description:</b>	Explores educational, therapeutic, and social challenges in
Department:	Clinical & Social Sciences in Psychology		developmental disabilities. Students will spend approximately 8
Course: Title:	CSP 352 Research in Developmental Neuropsychology		hours per week in a supervised educational or treatment setting as well as participate in weekly meetings to review and discuss
Cross-listed:	PSY 352		general issues in the field.
Instructor:	Bennetto, L.		8
<b>Restrictions:</b>	Permission of instructor required		Computer Science
Description:	This course provides guided, direct research experiences in		computer belence
	developmental neuropsychology, with a particular focus on autism and other developmental disabilities.	Department:	Computer Science
	autsin and outer developmental disabilities.	Course:	CSC 108
Department:	Clinical & Social Sciences in Psychology	Title:	Introduction to Computers
Course:	CSP 356	Instructor:	Arnold, K.
Title:	Research in Adolescent Development	Prerequisites:	Not open to officially declared CSC Majors.
Cross-listed:	PSY 356	Description:	A practical introduction to computing for students in the humanities, social sciences, and business. Topics to be covered
Instructor: Prerequisites:	Smetana, J. Prerequisite: CSP 171 or 278		include stand-alone applications (word processing, spreadsheets,
Restrictions:	Permission of instructor required		databases); Internet tools (web browsers, e-mail, file transfer, web page creation); basic computer technology (how computers work, how they are programmed, what their limitations are); and broader social issues (technological trends, computer ethics, the

impact of computing on society). Labs required. Weekly assignments.

Department: Course: Title: Instructor: Prerequisites: Description:	Computer Science CSC 170 Introductory Computer Programming Arnold, K. Class Size: 75 none. Not open to officially declared CSC majors. The course is taught using the Javascript programming language and HTML, but emphasizes algorithmic thinking and creative problem solving over language specifics. Projects and exams are used to evaluate grades. Prospective majors lacking experience can take this course, possibly preceded even by CSC 108, in the freshman year, and begin the late-start B.A. in the fall of the sophomore year. This course also serves students who want to learn programming, but whose educational goals do not require the scope of coverage found in CSC 171.
Department:	Computer Science
Course:	CSC 172
Title:	Data Structures
Instructor:	Pawlicki, T.
Prerequisites:	CSC 171 or equivalent; MTH 150.
Description:	Representing data for computer manipulations (e.g., trees, lists, sets, stacks, and queues) in JAVA. Analysis of the running times of programs operating on such data structures, and basic techniques for program design, analysis, and proof of correctness (e.g., induction and recursion).
Department:	Computer Science
Course:	CSC 190
Title:	Issues in Computing: Recreational Graphics I
Cross-listed:	CSC 290C
Instructor: Prerequisites:	Pawlicki, T. General prerequisite: none; CSC 170 Recommended for
r rei equisites:	Recreational Graphics. CSC 170 reco
Description:	Special topics of current interest that vary by semester. See current semester description. This course is not taught on a regular basis. Springl 2008 - Recreational Graphics II (2.0 hours) Practical, individual and team project based computer graphics centered on using the MAYA graphics framework and the MEL (Maya Embedded Language) programming. Topics will include 3D modeling, animation, and simulation. The purpose of this course is to provide a context for a learning community in computer graphics. Students will design and implement personal projects. The course will carry 2 credit hours per semester and is based on progress of the projects. PreReq: Rec. Graphics I.

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Computer Science CSC 200 Undergraduate Problem Seminar CSC200H Hemaspaandra, Lane Class Size: 15-20 All premajor requirements Intensive seminar on cooperative problem solving. Overview of the subdisciplines and the research of the University of Rochester's computer science faculty. CSC 200H is required for Honors Research B.S. degree; CSC 200 is an optional elective for the B.S. and B.A. in Class of 2007 & 2008; required for B.S. students in 2009+. Students taking CSC 200H may have additional reading, assignments or projects.
Department: Course: Title: Instructor: Prerequisites: Description:	Computer Science CSC 200H Undergraduate Problem Seminar Hemaspaandra, L. All pre-major requirements (strictly enforced). Intensive seminar on cooperative problem solving. Overview of the subdisciplines and the research of the University of Rochester's computer science faculty. CSC 200H is required for Honors Research B.S. degree; CSC 200 is an optional elective for the B.S. and B.A. in Class of 2007 & 2008; required for B.S. students in 2009+. Students taking CSC 200H may have additional reading, assignments or projects.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Computer Science CSC 242 Artificial Intelligence BCS 232 Brown, C MTH 150 & CSC 172 Philosophical, psychological, psychophysical issues. History of trends in AI and current state. Case studies from problem solving, expert systems, robotics, natural language understanding, computer vision, neural nets, and learning. LISP and possibly MATLAB programming. Laboratory exercises involve state-of- the-art hardware and software systems. This course is prerequisite for advanced AI courses.
Department: Course: Title: Cross-listed: Instructor:	Computer Science CSC 246 Mathematical Foundations of Artificial Intelligence CSC 446 Gildea, Daniel

Prerequisites:	CSC 242 and MTH 165 (the 2-course sequence of MTH 163 and MTH 235 may be substituted for MTH 165)
Description:	The mathematical foundations of robotics and vision applications in artificial intelligence. Meets jointly with CSC 446, a graduate- level course that requires additional readings and assignments.

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Computer Science CSC 249 Machine Vision CSC 449, BCS 236, & BCS 536 Nelson, Randal Class Size: 15 MTH 161 & CSC 242 Introduction to computer vision, including camera models, basic image processing, pattern and object recognition, and elements of human vision. Specific topics include geometric issues, statistical models, Hough transforms, color theory, texture, and optic flow. Meets jointly with CSC 449, a graduate-level course that requires additional readings and assignments. May not be offered every year.	Dep Cou Title Cro Inst Prei Dese
Department: Course: Title: Instructor: Prerequisites: Coursework: Description:	Computer Science CSC 252 Computer Organization Scott, Michael MTH 150 & CSC 172 Several programming assignments required. Introduction to computer architecture and the layering of hardware/software systems. Topics include instruction set design; logical building blocks; computer arithmetic; processor organization; the memory hierarchy (registers, caches, main memory, and secondary storage); I/Obuses, devices, and interrupts; microcode and assembly language; virtual machines; the roles of the assembler, linker, compiler, and operating system; technological trends and the future of computing hardware.	Dep Cou Title Inst Prei Dese Dese Cou Title
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Computer Science CSC 258 Parallel & Distributed Systems CSC 458 Dwarkadas, S. CSC 254 & CSC 256 This course will focus on the principles of parallel and distributed systems, and the associated implementation and performance issues. We will examine programming interfaces to parallel and distributed computing, memory management techniques and parallel program optimization, interprocess communication, synchronization, and consistency models, fault tolerance and	Cro Inst Prei Dese

reliability, distributed process management, multiprocessor architectures, and the interaction of the compiler, run-time, and hardware architecture. Meets jointly with CSC 458, a graduatelevel course that requires additional readings and assignments. May not be offered every year.

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Computer Science CSC 260 Topics In Natural Dialog Systems CSC 460 Allen, J. <b>Class Size:</b> 10-15 CSC 244 and CSC 247 This course will examine recent research in computational linguistics and artificial intelligence on natural language dialog systems. Students will take turns leading the discussion of current research papers. Undergraduates taking the course for credit will also be required to prepare a written review of one of the papers. It may be repeated for credit with permission of the instructor. Crosslisted with CSC 460. Graduates taking the course may have additional readings or assignments.
Department: Course: Title: Instructor: Prerequisites: Description:	Computer Science CSC 280 Computer Models and Limitations Seiferas, J. CSC 173 & MTH 150. This course studies fundamental computer models and their computational limitations. Finite-state machines and pumping lemmas, the Chomsky hierarchy, Turing machines and algorithmic universality, noncomputability and undecidability, tradeoffs between power and formal tractability.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Computer Science CSC 284 Advanced Algorithms CSC 484 Stefankovic, D. CSC 282 Advanced study of design and analysis of algorithms. Topics typically include: growth of functions; recurrences; probabilistic analysis and randomized algorithms; maximum flow; sorting networks; expander graphs; matrix operations; linear programming; discrete Fourier transform; number-theoretic algorithms; string matching; computational geometry; NP- completeness; approximation algorithms. Students taking this course at the 400 level may be required to complete additional tests, readings or assignments.

Department: Course: Title: Instructor: Prerequisites: Description:	Computer Science CSC 290 Topics in Computer Science: Collaborative Software Engineering Spring 2009 290A Ding ,Spring 2009 290B Pal, C.,Spring 2009 290C Koomen Class Size: 15-20 Varies with topic. Spring 290A CSC173, CSC 254 recommended; CSC 290B CSC 171 or permission of instructor. (290A) Collaborative Software Engineering: Running on low-	Instructor: Description:	Pigno, N. Class Size: 25 This course will explore movement through the use of technique and improvisation. It emphasizes spontaneity, joy in moving, and self-awareness and is based on experiential anatomy and developmental movement patterns. It provides a strong foundation for further study in dance, theater, or sports, or can be used as an introduction to movement and body awareness. No previous dance training is required.	
Ĩ	cost, powerful computers, immense storage, and ubiquitous	Department:	Dance	
	networks, a new generation of software has radically changed	Course:	DAN 103	
	how information is distributed and accessed and is opening new	Title:	Fundamentals of Movement B	
	possibilities in how (fast) knowledge is created and used. This	Instructor:	Pigno, N. Class Size: 5	
	revolution has been compared to the advent of printing, and the pertinent expertise and skill are considered as basic and essential	Description:	A continuation of Dance 102.	
	as reading and writing. This experimental course teaches	<b>Department:</b>	Dance	
	principles and practices of collaborative software development	Course:	DAN 104	
	and its use in converting data into knowledge and knowledge into	Title:	Contact Improvisation I	
	tools. The topics include fundamentals of programming (more for	Instructor:	Pigno, N. Class Size: 12	
	organizing information than for managing computers), lessons from past information systems, and current practice and tools for	<b>Description:</b>	Contact improvisation is rooted in dance, the martial arts and studies of body development and awareness. It is a duet form	
	teamwork and (virtual) collaboration. The main assignments are a		where partners use weight, momentum, and inertia to move each	
	series of group projects including the final project of developing a		other freely through space, finding support through skeletal	
	possibly on-line recommendation system. The projects will be		structure rather than muscular effort. We will explore solo and	
	evaluated based on the design, implementation, and deployment,		duet skills such as rolling, falling, balance, counter-balance,	
	including an end-of-semester competition based on a user survey.		jumping, weight sharing, spirals, and attuning to sensory input.	
	CSC290B Computational Photography and Video:		Skill work will be combined with more open dancing in a	
	Computational aspects of image, video processing and interactive photography. Topics selected from: imaging and low level image		supportive and focused environment. No previous dance training required.	
	processing, compression, video processing and tracking, image		required.	
	segmentation, combining / compositing images, stereo vision,	Department:	Dance	
	depth and 3D reconstruction techniques, image registration, face	Course:	Dan 105	
	detection and recognition, general object recognition, image and	Title:	Creative Improvisation Through World Percussion	
	video indexing and retrieval. Real world examples will be drawn	Instructor:	Holland, J. Class Size: 18	
	from commercial, artistic, medical and scientific applications.	Description:	This class explores improvisation as a process and vehicle for	
	290C - Intro to Database Systems (290C): This course presents		personal expression, while investigating some of the rhythms and	
	the fundamental concepts of database design and use. It provides		music of the world through hands-on performance, guided	
	a study of data models, data description languages, and query facilities including relational algebra and SQL, data		listening, readings and video presentations. The course provides an introduction to hand-drumming technique, with an emphasis	
	normalization, transactions and their properties, physical data		on West African and Afro-Cuban percussion traditions.	
	organization and indexing, security issues and o		Following the spirit of these traditions, which celebrate	
	<i>o o</i> , <i>y</i>		community over individualism, practical facility with drumming	
	Dance		language will be emphasized as a key to exploring improvisation.	
	Dance		The course, in an overall sense, provides students with a first-	
			hand experience of how music in general, and drumming in	
Department:	Dance		particular joins people together in a shared experience of sound	

particular, joins people together in a shared experience of sound

and vibration that is both ancient and contemporary.

Department: Course: Title: Dance DAN 102 Fundamentals of Movement A

Department: Course: Title: Instructor: Description:	Dance DAN 114 Introduction to Anusara Yoga McCausland, J. <b>Class Size:</b> 20 Anusara Yoga is a powerful system of hatha yoga that integrates a Tantric philosophy of intrinsic human goodness, Universal Principles of Alignment, and an artistic method of expressive movement. Students learn to honor their unique differences and limitations and through self-examination, discovery and receptivity, they open to new ideas about their responsibility and individual roles in a rapidly changing world community. This class unifies traditional Indian philosophy with practical implementation, classic yoga asana (poses) with a creative movement application emphasizing a celebration of the heart.	Depart Course Title: Cross-1
	Course requirements include assigned readings, journaling, discussion, participation in class and home practice.	Instruc Descrij
Department: Course: Title: Instructor: Description:	Dance DAN 116 Introduction to Contemporary Ballet World, C. <b>Class Size:</b> 20 Contemporary Ballet will approach ballet technique through the lens of somatic practices and will focus on giving the students a strong technical base. Phrasing, musicality and efficiency of movement will be emphasized. The class will provide a theoretical context, looking at ballet history and art and culture in society.	Depart Course Title: Cross-l Instruc Descrij
Department: Course: Title: Instructor: Restrictions: Description:	Dance DAN 120 Introduction to Aikido Martini, R. Class Size: 18 Not open to seniors Aikido is a different kind of martial art. It doesn't rely on speed or strength, but on the development of a calm mind and a relaxed body. While the techniques you learn in Aikido are fascinating and effective, Aikido's real secret is this strong, dependable mind/body state. You will learn how to throw attackers effectively and almost effortlessly and how to fall safely. Aikido helps you to know yourself, to understand the natural rhythms of the human body, and to harness the true power of your mind and body for school, sports, dance, and all aspects of your life.	Depart Course Title: Cross-I Instruc Descrij
Department: Course: Title:	Dance DAN 171 Capoeira:Brazilian Art Movement	

Instructor: Description:	Russell, T. <b>Class Size:</b> 20 An art form of self-defense with strong aerobic and dance elements that brings together a harmony of forces. Through the study of the history, movements and culture behind Capoeira students will gain self-confidence, power, flexibility, endurance, and ultimately the tools towards self-discovery. Capoeira is within the reach of anyone regardless of age, sex, or athletic experience. In keeping with its strong traditions, Capoeira balances the body, mind, and soul and enables one to break through limits, revitalizing oneself for everyday life.
Department: Course: Title: Cross-listed: Instructor: Description:	Dance DAN 175 Voice and Movement for the Actor ENG 177 Browne, P. ,Ware, S. Class Size: 15 Please See ENG 177 for course description.
Department: Course: Title: Cross-listed: Instructor: Description:	Dance DAN 180 Creative Middle Eastern Dance WST 177 Scott, K. Class Size: 20 Unveil the grace and beauty residing in the creative nature of Middle Eastern Dance. Improve strength, flexibility and self awareness of the body. Class work will include meditative movement, dance technique, improvisation and rhythm identification through music and drumming. Specific dance forms such as Egyptian & Turkish Oriental, Tunisian, American Tribal and Folkloric/Bedouin styles of North Africa will be taught. Discourse and research topics will explore issues of gender, body image, historical perspectives and Orientalism.
Department: Course: Title: Cross-listed: Instructor: Description:	Dance DAN 181 West African Dance Forms I AAS 254 Martino, K. Class Size: 20 Students will experience dancing African styles from the traditional cultures of Ghana and Guinea, West Africa. Technical emphasis will focus on foot patterns and placement, as well as developing the proper physical stance for African dance styles. Students will practice the dances and drum songs called Kpanlogo & Gota from Ghana, and Yankadi, Makru, & Kuku from Guinea, as well as various other selections. Outside work is required, including performance attendance, video viewing, article analysis, and journaling. Students can expect to gain a

broadened perspective on contemporary West Africa and it's cultural practices.

Department: Course: Title: Instructor: Description:	Cultural practices. Dance DAN 203 Contact Improvisation II Pigno, N. Class Size: 10 A continuation of DAN 202 that is taught concurrently with the introductory course. Students in DAN 203 will gain a deeper experiential and intellectual knowledge of contact by exploring issues further. Work includes both more advanced practice with other DAN 203 students, and the experience of helping teach the DAN 202 students the basic principles of contact.	Department: Course: Title: Instructor: Description:	<ul> <li>Standing Pole meditation (Znan Zhuang). Tai Chi is not only a valuable cross training exercise for the dancer, but also provides training for relaxed strength, whole body coordination, balance, centered alignment, timing, weight shifting and moving with fluid grace.</li> <li>Dance DAN 209 Qigong: Chinese Way To Health Loughridge, R. Class Size: 18 Qi Gong is a traditional Chinese internal art and an early forerunner of Tai Chi Ch'uan consisting of the practice (Gong) of sets of energy (Qi) exercises to build outer and inner strength. It</li></ul>
Department:	Dance		is a self-healing modality designed to balance and harmonize the
Course:	DAN 204		energy flow of the body, improve breathing and relax the mind
Title:	Contact Improvisation and Culture		for health, fitness, and longevity. This course is a study of both
Instructor:	Pigno, N. Class Size: 10		the philosophical and the movement aspects of Qi Gong in order
Description:	This course includes the studio work of the 2 credit contact improvisation course, and readings and written assignments that use ideas from contact improvisation to explore cultural issues.		to better understand and to attain the integration of body, mind, and spirit. Topics will include traditional Chinese cultural concepts such as Yin-Yang theory, Five Element theory and Qi theory. Qi Gong provides the dancer with training for better
Department:	Dance		breathing, body awareness, focus and concentration, mental
Course:	DAN 207		presence, imagery, and cultivating and expressing energy.
Title:	Dance as a Force for Social Change	_	
Instructor:	Hook, J. Class Size: 15	Department:	Dance
<b>Description:</b>	Dance is an irreplaceable way of understanding and expressing	Course:	DAN 211
	the world. Contemporary dance cuts across social, cultural,	Title: Instructor:	T'ai Chi: Explorations in Qi Loughridge, R. Class Size: 18
	geographic and aesthetic boundaries, bridging between diverse cultures and traditions and giving a venue for exploring the complexities and ambiguities of human existence. Through films, readings and discussion we will explore dance as a force for transformative change in the 21st Century.	Description:	Dancers, musicians, actors, painters, philosophers, poets, warriors, healers, and artists of every discipline historically have utilized the Chinese internal arts of Tai Chi and Qi Gong as tools for the mobilization of qi, or energy, in order to achieve health, healing, and mind-body-spirit integration. This course combines
Department:	Dance		movement, meditative, and breathing exercises and traditional
Course:	DAN 208		forms with readings, video viewings, creative exercises,
Title:	T'ai Chi and Chinese Thought		exploratory projects, and discussions of literature and philosophy
Instructor:	Loughridge, R. Class Size: 18		to explore how the practice and philosophy of these
Description:	A study of Taijiquan, (also known as T'ai Chi Ch'uan or Tai Chi), a traditional Chinese martial art, and its intimate relationship to the cosmological, physiological, and philosophical conceptions found in the culture and thought from which it emerged. The course investigates both the traditional Chinese philosophy and		transformative arts can lead to mental and physical balance, body-mind integration, self-discovery, creative expression, and peak athletic and enhanced artistic performance. (Four Credit Hours)
	movement aspects of Tai Chi in order to better understand the	Department:	Dance
	integration of human body, mind, and spirit. The Simplified 24-	Course:	DAN 214
	Step Taijiquan (Ershisi Shi Taijiquan) is learned, along with the	Title:	Community, Earth & Body
	foundation skills of the Eight Methods or Energies (Ba Fa),	Cross-listed:	WST 215

Reeling Silk (Chan Si Gong), Pushing Hands (Tui Shou), and Standing Pole meditation (Zhan Zhuang). Tai Chi is not only a

Instructor: Description:	Hook, J. Class Size: 12 What is a sustainable community? How does our relationship with our body affect the way we interact with the world? What does it mean to be truly human and to renew and deepen communication with our natural world and society? What is transformative learning? These questions and others will be addressed through experiential practice, journal writing, reading and discussion of contemporary writers, and time spent in meditation/reflection.	Instructor: Description:	Martino, K. Class Size: 20 This course will focus on the increasingly complex dance repertoires of Ghana and Guinea, West Africa. A more specified investigation of regional context and cultural function of the dances will be emphasized. Repertoire dances include Sinte, Kassa, Yamama, & Somuninku from Guinea and Adowa, Slow Agbekor, & Gahu from Ghana, as well as others. Enrollment requires West African Dance 1 or demonstrated ability in African dance.
Department: Course:	Dance DAN 217	Ea	rth & Environmental Sciences
Title: Instructor: Description:	Body as Medium: Performance Art Holland, J. Class Size: 18 This class introduces students to performance art as a four-fold discipline: a powerful cultural practice that has a long and storied history; a contemporary means of expression that remains both vibrant and volatile; a powerful tool for investigating and reflecting on ways that individuals choose to construct representations of their self/ selves; and a path leading toward a meaningful social, political and ecological engagement with the world. Among other things, we will consider how ones history, gender, race or ethnic identification, personal geography, sexuality and bodily expression can all be considered elements in the ongoing performance of ones life. Students, presented with daily warm up, group and individual exercises, will learn to develop collaborative and individual pieces that explore embodiment as an artistic medium.	Department: Course: Title: Instructor: Description: Department:	Earth & Environmental Sciences EES 102Q Earthquakes, Volcanoes and Mountain Ranges in California: A Field Quest Tarduno, J. Class Size: 15 Understanding how the Earth works starts with an appreciation of geological processes in action. To observe these dynamic processes, such as earthquakes, volcanic eruptions and mountain formation, Earth scientists must travel to areas of geological youth, such as California. In this quest, students are introduced to active geology through readings and discussion sections in preparation for a field excursion to California. Students will learn to examine critically ideas on how Earth science systems work and how active processes affect society.
Department: Course: Title: Instructor: Prerequisites: Description:	Dance DAN 265 Contemporary Dance Technique Smith, M. Class Size: 18 DAN 102 or equivalent dance experience This class is for students with previous dance or athletic experience. It will blend the challenges of full-bodied, momentum-driven dancing with a sense of ones own self- awareness and discovery. Classes will explore efficiency of movement, breath, gravity and weight, musicality, performance and somatic practices. Through rigorous dancing, students will be challenged to move beyond not only their physical, but also their artistic boundaries and dimensions.	Course: Title: Instructor: Prerequisites: Description:	<ul> <li>EES 103</li> <li>Introduction to Environmental Science</li> <li>Cox, L.</li> <li>Recommended: EES 101 and a solid background in high school biology and chemistry.</li> <li>An introduction to the natural, physical chemical, biological and geological processes that shape conditions at the Earth's surface, their interrelationships, and the modification of these processes by human activity. Students will learn to critically analyze scientific hypotheses and the data on which they are founded. Exercises in the field and laboratory will reinforce basic concepts introduced in lecture, and introduce students to some basic methods of environmental research. The content of this course is similar to that of the AP Environmental Science curriculum.</li> </ul>
Department: Course: Title: Cross-listed:	Dance DAN 281 West African Dance Forms II AAS 255	Department: Course: Title: Cross-listed:	Earth & Environmental Sciences EES 119 Energy and Mineral Resources EES 219

Instructor: Exams: Coursework: Description:	Fehn, U. Two exams and final. Weekly problem sets Mineral deposits; the geologic process formation, geologic setting, distribution fossil fuels. Technical principles of to their availability and future potential. (e.g., solar energy, geothermal energy economic consequences of energy use in the natural sciences and engineering EES 219.	on and use. Formation of oday's major energy sources, Alternative energy sources ). Environmental and c. Note: Juniors and Seniors	Department: Course: Title: Cross-listed: Instructor: Prerequisites: Exams:	and how active processes affect so complement to EES 102Q and is i environmental science majors Earth and Environmental Sciences EES 206 Petrology and Geochemistry EES 406 Basu, A. EES 101 Three 1-hour exams, 2 laboratory	ntended for geology and s Class Size: 40 exams, plus quizzes
Department: Course: Title: Instructor: Coursework:	Earth & Environmental Sciences EES 201 Evolution of the Earth Cottrell, R. Weekly labs and Saturday field trips ( supplement the lectures.	<b>Class Size:</b> 60 late in the semester)	Description:	Distribution, description, classific metamorphic rocks in the light of multicomponent phase equilibrias and isotopes as tracers in rock gen microscopic examinations of the m laboratory	theoretical- experimental studies; use of trace elements lesis; hand specimen and
Description:	Historical geology encompasses the 1 physical earth: The development of la ancient seas, movements of continents of historical geology such as paleonto stratigraphy, geochronology and plate chronological survey of earth and life evolution of North America.	ndforms, rise and fall of s, etc. and 2) the evolution logy, sedimentology, tectonics and, second, a	Department: Course: Title: Instructor: Description:	Earth & Environmental Sciences EES 206W Petrology and Geochemistry-Uppe Basu, A. See EES 206 and EES Departmen fulfills the upper level writing requ	tal Writing Plan. This section
Department: Course: Title: Instructor: Prerequisites: Description:	Earth & Environmental Sciences EES 201W Evolution of the Earth-Upper Level W Cottrell, R. See EES 201 See EES 201 and EES Departmental W fulfills the upper level writing require	Writing Plan. This section	Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Earth & Environmental Sciences EES 207 Principles of Paleontology Higgins, P. EES 101, EES 201 or permission of Three hourly exams This course is designed to introduc paleontology - the study of fossil of record. Topics to be accurred inclu	ce the basic principles of organisms in the geological
Department: Course: Title: Cross-listed: Instructor: Description:	Earth and Environmental Sciences EES 202Q Plates Tectonics and Active Geologic EES 102Q Tarduno, J. Understanding how the Earth works w geological processes in action. To obs processes such as earthquakes, volcan formation, Earth scientists must travel youth, such as California. In this court to active geology through readings and preparation for a field excursion to Ca to examine critically ideas on how Earth	<b>Class Size:</b> 15 yith an appreciation of erve these dynamic ic eruptions and mountain to areas of geological se, students are introduced d discussion sections in lifornia. Students will learn	Department: Course: Title: Instructor: Prerequisites:	<ul> <li>record. Topics to be covered inclu processes of fossilization; Principl the fossil record; Taxonomy and th fossil species; Biostratigraphy as a learning about ancient environmer means to understand ancient habit will include an overview of impor on experience and a field trip.</li> <li>Earth &amp; Environmental Sciences EES 207W</li> <li>Principles of Paleontology - Upper Higgins, P. See EES 207</li> </ul>	les of evolution as evidenced by he recognition and naming of a means of dating a rock and/or nts; Geochemistry of fossils as a ats and behaviors. The course tant fossil groups with hands-

Restrictions: Description:	Permission of instructor required See EES 207. This section fulfills the upper level writing	
Department: Course: Title:	requirement and EES Departmental Writing Plan. Earth & Environmental Sciences EES 211 Earthquake and Volcanic Hazards: Living on an active planet	
Cross-listed:	EES 111	
Instructor:	Ebinger, C. Class Size: 30	
<b>Prerequisites:</b>	EES 101 or permission of instructor	
Exams:	one mid-term exam, and one final exam	
Coursework:	one 20-page essay concerning a case study of a recent seismic or volcanic event. Students electing this section will have 8	
Description:	additional lab sessions on earthquake and volcanic processes. Earthquakes and volcanic eruptions are violent manifestations of plate tectonics, the movement of the relatively rigid plates forming the Earth's outer shell. This course focuses on the causative mechanisms of earthquakes and volcanoes, hazards and forecasting, and insights into planetary processes gained from their study. The final third of the course examines particular events on Earth, with implications for planetary evoltuion.	
Department:	Earth & Environmental Sciences	
Course:	EES 217	
Title:	Physical and Chemical Hydrology	
Cross-listed:	EES 417	
Instructor:	Poreda, R.	
<b>Prerequisites:</b>	EES 101	
Description:	This course provides a foundation in both qualitative and quantitative analyses of the dynamic interaction between water and geologic media. The first part of the course outlines the formation of water, atmospheric processes and the hydrologic cycle. The second part focuses on the theory of, and geologic controls on, groundwater flow. The third and final part of the course deals with natural groundwater geochemistry and environmental contamination.	
Department: Course: Title:	Earth & Environmental Sciences EES 217W Physical and Chemical Hydrology Upper Level Writing	
I me:	Physical and Chemical Hydrology-Upper Level Writing Requirement	
Instructor:	R. Poreda	
Prerequisites:	See EES 217	
Description:	See EES 217 See EES 217 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.	
Denartment.	Farth & Environmental Sciences	

Course: Title: Cross-listed: Instructor: Exams: Coursework: Description:	EES 219 Energy and Mineral Resources EES 119 Fehn, U. Class Size: 20 Two Exams and final. Discussion session; problem sets; research paper See description of EES 119. The science background will be more emphasized in additional readings and a separate discussion session.
Department: Course: Title: Instructor:	Earth & Environmental Sciences EES 219W Energy and Mineral Resources-Upper Level Writing Requirement U. Fehn
Prerequisites: Description:	See EES 219 See EES 219 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Exams: Description:	Earth and Envionmental Sciences EES 251 Intro. Remote Sensing and Geographic Information Systems EES 451 Ebinger, C. MTH 141-143 or MTH 161-163 Assessment is through computer-based practicals and a short- answer mid-term exam Students will learn the basic principles of satellite, airborne, and other remote sensing data acquisition systems, and the processing and interpretation of acquired data sets. Case studies and computer-based practicals will focus on visible to near-infrared, thermal and radar imaging of continents and seafloor. Course material will include a review of geographic coordinate systems and projections for georeferencing remotely-sensed data as a basis for Geographic Information Systems analysis.
Department: Course: Title: Instructor: Prerequisites: Description:	Earth and Environmental Sciences EES 257 TOPICS IN ADVANCED SEISMOLOGY Ebinger, C. PHY 122 or equivalent, EES 205 This course examines wave propagation in the Earth, and introduces helioseismology. Classes focus on theory of waveform modelling, moment tensor inversions, low frequency earthquakes and related topics. Laboratory work focuses on Matlab-based programming.

**Department:** Earth & Environmental Sciences

Department: Course: Title: Instructor: Prerequisites: Description:	Earth and Environmental Sciences EES 259 Seminar in Paleomagnetism Tarduno, J. EES 101 or permission of instructor Current topics in Paleomagnetism and rock magnetism will be explored through literature reviews and modeling studies. Topics will range from the history of plate tectonics to biogenic magnetism. An interduction to have a compared to page and the start of	Description: Department: Course: Title:	Discussion of major environmental issues such as water use, pollution and energy availability. Analysis of decisions resulting in environmental change. The interaction of scientists with the public and policymakers. Seminar format with oral presentations and papers. A writing course. Earth & Environmental Sciences EES 390 Supervised Collage Tanghing
Department	magnetism. An introduction to basic concepts in paleomagnetism and rock magnetism will be included.	Cross-listed: Instructor:	Supervised College Teaching EES 490 Any Full-time Faculty Member within Department
Department: Course: Title: Instructor: Prerequisites: Restrictions: Exams: Description:	Earth & Environmental Sciences EES 285 Structure and Tectonics of Mountain Belts Mitra, G. Class Size: 30 EES 208 or equivalent Permission of instructor required 2 exams plus required field trip(s). Orogeny and its relationship to plate tectonics. Structural style and tectonic history of mountain belts with special reference to	Restrictions: Description:	Permission of instructor required Attendance of all primary class lectures. Assist in at least one laboratory session per week and general preparation for answering student questions. Preparation and delivery of at least one laboratory lecture and summary discussion following that lab. Assistance with the setup and dismantling of extensive lab displays of rocks, fossils and maps. Assistance with grading of lab quizzes and homework assignments, and in proctoring exams.
	the Appalachians and Cordilleras. Lectures twice a week. Homework assignments involve drawings and interpreting cross- sections through mountain belts. Extended Field trip to the Appalachians to look at typical structures of mountain belts. Offered alternate spring semesters.	Department: Course: Title: Instructor: Restrictions: Description:	Earth & Environmental Sciences EES 391 Independent Study in Earth and Environmental Sciences Permission of instructor required Students must have permission. Interested students should meet
Department: Course: Title:	Earth & Environmental Sciences EES 285W Structure and Tectonics of Mountain Belts-Upper Level Writing Requirement	Department: Course:	with their advisor, and/or Udo Fehn regarding course content. Earth & Environmental Sciences EES 391w
Instructor: Prerequisites: Description:	G. Mitra See EES 285 See EES 285 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.	Title: Instructor: Prerequisites: Restrictions:	Independent Study in Earth and Environmental Sciences-Upper Level Writing Requirement TBA See EES 391 Permission of instructor required
Department: Course: Title:	Earth & Environmental Sciences EES 298 Introduction to Research Methods	Description:	See EES 391 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.
Instructor: Description:	Staff A basic introduction to research in the Earth and Environmental Sciences will be provided in one of the laboratories that comprise the Department's Center for Analytical Geosciences.	Department: Course: Title: Instructor:	Earth & Environmental Sciences EES 393 Senior Thesis
Department: Course: Title: Instructor:	Earth & Environmental Sciences EES 318W Environmental Decisions - Upper Level Writing Requirement Fehn, Udo <b>Class Size:</b> 40	Restrictions: Description:	Permission of instructor required Students should seek out the faculty member he/she wishes to do a senior thesis with. Students should pick-up independent course forms from Lattimore 312. Course is suited to each students abilities. Questions should be directed to your major advisor.

Department: Course: Title: Prerequisites: Restrictions: Description:	Earth & Environmental Sciences EES 393W Senior Thesis-Upper Level Writing Requirement See EES 393 Permission of instructor required See EES 393 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.	Depart: Course Title: Instruc Prerequ
Department: Course: Title: Instructor: Restrictions: Description:	Earth & Environmental Sciences EES 394 Internship in Earth and Environmental Sciences Permission of instructor required Students should contact their major advisor for details. Closure course for Environmental Studies majors (ESP) and Environmental Science majors (EVS).	Descrip Depart Course Title:
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Earth & Environmental Sciences EES 417 Physical and Chemical Hydrology EES 217 R. Poreda EES 101 This course provides a foundation in both qualitative and quantitative analyses of the dynamic interaction between water and geologic media. The first part of the course outlines the formation of water, atmospheric processes and the hydrologic cycle. The second part focuses on the theory and geologic controls on groundwater flow. The third and final part of the course deals with natural groundwater geochemistry and environmental contamination.	Cross-l Instruc Prerequ Restric Course Descrip Depart Course Title: Instruc
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Exams: Description:	Earth and Envionmental Sciences EES 451 Intro. to Remote Sensing and Geographic Information Systems EES 251 Ebinger, C. MTH 141-143, MTH 161-163 Assessment is through computer-based practicals and a short- answer mid-term exam Students will learn the basic principles of satellite, airborne, and other remote sensing data acquisition systems and the processing and interpretation of acquired data sets. Case studies and computer-based practicals will focus on visible to near-infrared, thermal and radar imaging of continents and seafloor. Course material will include a review of geographic coordinate systems	Descrip Depart Course Title: Instruc Descrip

and projections for georeferencing remotely-sensed data as a basis for Geographic Information analysis.

Department: Course: Title: Instructor: Prerequisites: Description:	Earth and Environmental Sciences EES 457 TOPICS IN ADVANCED SEISMOLOGY Ebinger, C. PHY 122 or equivalent, EES 205 This course examines wave propagation in the Earth, and introduces helioseismology. Classes focus on theory of waveform modelling, moment tensor inversions, low-frequency earthquakes and related topics. Laboratory work focuses on Matlab-based programming.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Restrictions: Coursework: Description:	Earth & Environmental Sciences EES 459 Seminar in Paleomagnetism EES 259 Tarduno, J. Class Size: 15 EES 101 Permission of instructor required Class presentations and research paper Current topics in paleomagnetism and rock magnetism will be explored through literature reviews and modeling studies. Topics will range from the history of plate tectonics to biogenic magnetism. An introduction to basic concepts in paleomagnetism and rock magnetism will be included
Department: Course: Title: Instructor: Description:	Earth and Environmental Sciences EES 462 Seminar in Noble Gas Geochemistry Poreda, R. This course will examine topics in noble gas geochemistry through a series of recent articles on various topics.

## **Economics**

epartment:	Economics	
ourse:	ECO 108	
itle:	Principles of Economics	
structor:	Landsburg, S.	Class Size: 200
escription:	This course gives an over	view of economics and provides a
	foundation for studying f	urther in economics. We model how
	individuals make econom	ic choices, e.g., what to buy, how much
	to work, how much to say	ve, what occupation to pursue, how
	many children to have, et	c. Secondly, we examine how all these

individual choices come together. In particular, how does a market-oriented economy coordinate all these individual choices. The course explains the market forces of supply and demand and how they determine a good's price, who produces it, how it is produced, and who gets the good. We examine the role of international trade and the impact of government involvement in markets, such as imposing rent controls, taxing cigarettes, or outlawing child labor. We examine how markets deal with monopoly power or producers polluting; and we examine the ability of government intervention to lessen or worsen these problems. We see how a market economy rewards persons, how it can generate wealth and poverty, and study the outcome of government welfare policies. We also introduce a number of important issues in macroeconomcis. These include the sources of economic growth and the impact of government spending, taxing, and borrowing on the performance of the aggregate economy. Eco 108 is preparation for subsequent economics courses. Completion of (or concurrent enrollment in)a course in calculus is recommended.

Department:	Economics
Course:	ECO 207H
Title:	Honors Intermediate Micro
Instructor:	Pavan, R. Class Size: 30
Prerequisites:	1)A strong performance in ECO 108 2)Completion of MTH 161 or MTH 171 or completion of MTH 141 & 142
Description:	This course shows how the choices of consumers and firms interact through markets to determine all the factors related to economic well being. In comparison to other sections of ECO 207, this section will develop those choices more formally and mathematically.
Department:	Economics
Course:	ECO 208
Title:	Topics in Microeconomic Theory
Cross-listed:	ECO 208W
Instructor:	Landsburg, S.
Prerequisites:	ECO 207, Calculus
Exams:	3 Exams
Description:	This course is a sequel to ECO 207. It covers a variety of topics in microeconomics. The precise content varies, but usually includes a more detailed look at the theory of the firm, analysis of simultaneous equilibrium in many markets, and allocation of resources over time and under uncertainty.
Department:	Economics

Course:

ECO 209

Title: Instructor: Prerequisites: Exams: Description:	Intermediate Macroeconomics Hong, J. Class Size: 125 ECO 207 2 Midterms, 1 Final ECO 209 is an intermediate course in macroeconomics. The course analyzes basic models of income determination which attempt to explain how the price level, the interest rate and the level of output and employment are determined. Monetary and fiscal policies are discussed within the framework of these models, and competing theories are compared.		
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Exams: Description:	Economics ECO 211 Money, Credit and Banking ECO 211W Rizzo, M. <b>Class Size:</b> 100 ECO 207 (or permission of instructor) 2 Midterms, Final This course is devoted to the study of topics in money and banking. Topics covered include the determinants and causes of inflation, monetary policy, credit and capital markets, liquidity and financial intermediation, and federal regulation of the banking system.		
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Restrictions: Exams: Description:	Economics ECO 217 Economics of Contracts, Organizations, and Markets ECO 217W Abraham, A. ECO 207 and Calculus Eco 207;ECO 216 or FIN 205; ECO 230 or equivalent Not open to freshmen 1-2 Midterms, Final, Problem sets This course offers a unified treatment of the economics of contracts and organizations. We use the concepts of transaction costs, private information and efficiency are used to study issues regarding co-ordination, incentives, organization and mechanism design. Among others, we will seek answers to following questions. Do stock options or variable bonuses give better incentives for managers to work hard on the behalf of the shareholders? Should a medium size firm finance new investment by issuing equity or by borrowing? Should corporations expand vertically or horizontally?		
Department: Course: Title:	Economics ECO 230 Economic Statistics		
Instructor: Prerequisites: Exams: Description:	Yilkiz, N. Class Size: 75 Students should have taken or currently be taking Math 141 higher. midterms, final This course is an introduction to the probability and statistic theory underlying the estimation of parameters and testing of hypotheses in economics. Linear correlation and simple regression analysis are also be introduced. Students will use computers to analyze economic data.	al f	2 Midterms, Final This course is intended to be an introduction to the study of the role of government in the economy, with an emphasis on the microeconomic aspects of this role. Both the taxation and the expenditure sides of government activity will be studied. The first part of the course will be devoted to the theory of public finance in order to build a foundation for the remainder of the course, which involves the application of this theory to particular programs and institutions (policy analysis). Typical topics include: public goods, social security, income taxation, tax
--	--	--	---
Department: Course: Title: Instructor: Prerequisites: Description:	Economics ECO 231W Econometrics Kinsler, J. Class Size: 70 ECO 207;ECO 230 or STT 213 or MTH 203 This course covers the single and multiple linear regression model, the associated distribution theory, and testing proced specification errors; multicollinearity; corrections for heteroscedasticity and serial correlation; simultaneous equat measurement error, dummy variables, discrete choice mode and other extensions as time permits. Students also apply techniques to a variety of data sets using computers. Applications of these techniques to various economic fields emphasized.	ions; <b>Prerequisites:</b> ls; <b>Exams:</b> <b>Description:</b>	reform, fiscal federalism ,etc. ECO 263(W) section counts for upper level writing requirement. Economics ECO 270 International Finance ECO 270W Stockman, A. Class Size: 40 ECO 207/ECO 209/ECO 230 or STT 213 Midterm, Final Foreign exchange markets; determination of exchange rates; balance of payments, and international asset flows; central bank intervention; international monetary system; European Monetary System (EMS) and European Monetary Union (EMU); international transmission of macroeconomic disturbances.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Economics ECO 251 Industrial Organization: Theory & Evidence ECO 251W Virag, G. ECO 207 This course examines the determinants of market structure a market performance. Questions discussed are pricing, produ and quality choice, collusion, mergers, vertical restrictions, antitrust policy and related welfare analysis. Additional topi (depending on time) that are covered are networks, auctions advertisement and research and development. The course pu special emphasis on studying strategic situations, using the to of game theory. We use examples from US and international	ct- cs , its a cools <b>Department:</b>	Economics ECO 274 Mathematical Economics Pancs, R. This course will cover basic tools used in economic theory and their applications. The topics covered will include the notions continuity, existence, uniqueness, and characterization of solutions, comparative statics, and duality theory. These tools will be used and further tools will be developed in applications to trade, auctions, and matching. Economics ECO 288
Department: Course: Title: Cross-listed: Instructor: Prerequisites:	Big and theory is the use examples from 0.5 and international markets to illustrate the main theoretical ideas.EconomicsECO 263Public FinanceECO 263WWolkoff, M.ECO 207	Title: Cross-listed: Instructor: Prerequisites: Department: Course:	Introduction to Game Theory PSC 288 Barelli, P. ECO 207 Economics ECO 371

Title: Cross-listed: Instructor: Exams: Description:	Evolution of the World Economic Order Since the Sixteenth Century ECO 371W/AAS 371/HIS 357/HIS 457 Inikori, J. Midterm and Final The course traces the historical origins of the hierarchical structure of the current world economic order. It examines specifically the historical forces which produced the unequal international division of labor between industrial and non- industrial nations, starting with the British Industrial Revolution which occurred within the Atlantic world economy. The rise and fall of the USSR and the command economies of Eastern Europe are examined in the context of efforts by underdeveloped countries to improve their performance and location within the world system. The more recent successes of some Asian countries and the continuing external debt problems of Latin American and African countries are also examined with the conceptual framework of international political economy to predict the probable future of all poor peoples both in the poor and in the rich countries.
Department:	Economics
Course:	ECO 389

ECO 389			
Senior Seminar			
ECO 389W			
Engerman, S.			
ECO 207/ECO 209/ECO 231			
ription: Independent research on an economic problem chosen by the			
student and approved by a member of the faculty who agrees to			
supervise the research. Each student must write a substantial			
paper that reports on the outcome of that research. Class			
presentations on the progress of the research are also required.			

### English

Department:	English	
Course:	ENG 100	
Title:	Great Books: War	
Instructor:	Higley, S	
Description:	Spring 2009. This course aims to introduce students to famous writings considered "great" that examine the nature of war, the strategies of war and political conduct, and the strategies of surviving war. That so many of our great works, especially our "epics," address and describe wars is a concern of the course. Where does heroism end and expediency begin? What voices have been raised against war and the curtailment of freedom? What bonds are made or broken in war? The course is	

particularly interested in the relationships of men and women in an institution long considered a masculine domain. The course is divided into "Strategies," "Epic Heroes," and "Men and Women." In the first month we'll examine Sun Tzu's Art of War, Aristotle's Politics, Machiavelli's The Prince, Paine's Common Sense among others; in the second we will examine Gilgamesh, The Iliad, Beowulf, The Song of Roland, Shakespeare's Henry V; in the third we will look at Sophocles' The Trojan Women, Aristophanes' Lysistrata, Christine of Pisan on Joan of Arc, Woolf's Three Guineas, and either or both Ozick's The Shawl and Szeman's The Kommandant's Mistress.

Department: Course: Title: Instructor: Description:	English ENG 111 Introduction to Shakespeare Guenther, G Spring 2009. This course will focus on plays representing each of Shakespeare's major dramatic forms - comedy, history, tragedy, and romance. We learn about the literary and theatrical conventions that would have been second nature to Shakespeare and his audience 400 years ago; consider how Shakespeare's writing responded to his audiences cultural, literary, political, and religious concerns; and ask how Renaissance stage practices might help us to better understand his plays and better appreciate
	might help us to better understand his plays and better appreciate why Renaissance audiences found them so compelling. We will discuss, among other topics, Shakespeare's method of constructing his characters psychological dilemmas, his depiction of sensational and often violent events, his use of props, his insistent references to contemporary play-writing and performance practices (including the Renaissance tradition of boy actors playing women's roles), and his depiction of relations between ruler and subject, husband and wife, parents and children, and European and non-European characters. Classes will center around careful study of individual plays, including, when possible, analysis of recent interpretations of key passages on the stage or on film. We will proceed through a combination of lecture, class discussion, and small group work. Applicable English Clusters: Plays, Playwrights, and Theater; Great Books, Great Authors.

Department:	English
Course:	ENG 114
Title:	British Literature II
Instructor:	Rajan, S
<b>Description:</b> Spring 2009. This course introduces students to some of the	
	significant literature from the Romantic, Victorian, and Modern
	literary periods. Beginning with the outbreak of the French

Revolution and ending with World War I, the years covered by this course represent a time of dramatic political, economic, and cultural change. The nineteenth century witnessed the rise of industrialism, rapid imperialist expansion, religious crisis, increasing democracy, and shifts in gender and class identity. In exploring this tumultuous time period, the course will focus on an array of novelists, poets, and essayists who will serve as touchstones for the key political, intellectual, and aesthetic problems of their times (e.g. Blake, Wordsworth, Coleridge, Keats, Dickens, G. Eliot, Browning, J.S. Mill, Arnold, Ruskin, Yeats, and Woolf). During the course, we will address the political, aesthetic, and intellectual issues that are traditionally viewed as characterizing Romantic, Victorian, or Modernist literature. Students will not only gain a greater appreciation for individual authors, but they will also be able to situate them within a larger framework of ideas and historical currents.

Department: Course: Title: Instructor: Description: English

ENG 115

American Literature Li, S Spring 2009. This course provides a basic introduction to some of the major works and themes in American literature, focusing primarily on the development of the novel and short story, with limited attention to poetry and drama. We will begin in the 19th century and work our way through such contemporary writers as Toni Morrison and Tony Kushner. Our focus will be on the creation of a national identity and how issues of race, gender, class and sexuality intersect in the formation of an American literary tradition. Students will trace a number of important themes such as the relationship between politics and art, the impact of slavery and the Civil War, immigration, the American dream and the development of a national mythology and ideology. In our study of various movements in the American literary tradition, we will also pay close attention to the intellectual debates concerning audience, language, and the purpose of art that have shaped key texts and historical time periods. Lectures will provide social and cultural background to the literary works discussed in class.

Department:	English
Course:	ENG 118
Title:	Introduction to Media Studies
Cross-listed:	FMS 131; AH 102
Instructor:	Niu, G
Description:	Spring 2009. This course provides a broad overview and introduction to media. We will cover histories of different types

of media (internet, radio, audio recordings, television, cable, film, journalism, magazines, advertising, public relations etc.) as well as various theories and approaches to studying media. No prior knowledge is necessary, but a real interest and willingness to explore a variety of media will come in handy. Occasional outside screenings will be required (but if you cannot attend the scheduled screenings, you may watch the films on your own time through the Multimedia Center reserves). Students will be evaluated based on assigned writing, class room discussion leading, participation, short quizzes, midterm exam and final exam. Applicable English Cluster: Media, Culture, and Communication.

Department: Course: Title: Instructor: Restrictions: Description:	English ENG 120 Introduction to Creative Writing Schottenfeld, S <b>Class Size:</b> 15 Permission of instructor required Spring 2009. This class provides an introduction to the writing of poetry and fiction. Students will experiment with different poetic and literary forms, and will engage in writing exercises to develop and refine their use of images, characters and descriptive language. We will begin by studying the basic components of poetry and the short story. The course will conclude with a workshop in which every student will present material to be reviewed by the entire class.
Department: Course: Title: Instructor: Restrictions: Description:	English ENG 122 Creative Writing: Poetry Karn, J Class Size: 15 Permission of instructor required Spring 2009. This is an introductory course for students who have already begun to write some poetry on their own. Every week students' poems will be discussed in a workshop format. Selected works by contemporary poets (such as Plath, Walcott, Ginsberg, Ashbery, Rich, Heaney, and others) will provide an essential background for examining various approaches and techniques. Specific or "open" assignments will be given weekly. Permission of instructor required. Please submit 3-5 poems to the instructor, preferably before the first class, since space is limited. Applicable English Clusters: Poems, Poetry, and Poetics; Creative Writing.
Department: Course:	English ENG 123

Title:

Playwriting

Instructor: Restrictions: Description:	Svich, C Permission of instructor required Spring 2009. A course devoted to the execution of dramatic writing that is of Students will analyze and discuss sele an original one-act play to be comple semester. Meets during one half of th Theatre Program at 275-4959 for deta Cluster: Creative Writing.	unique to the theatre. ected readings while writing ted by the end of the e semester only. Contact the	Department: Course: Title: Instructor: Prerequisites: Description:	<ul> <li>major paradigms used in judging debates. Applicable English Cluster: Media, Culture, and Communication.</li> <li>English ENG 136 Advanced Debate Johnson, K Class Size: 25 ENG 135 or permission of instructor Spring 2009. Students will build their knowledge of debate theory and practice through varsity level intercollegiate competition and</li> </ul>
Department: Course: Title: Instructor:	English ENG 132 Feature Writing Memmott, J	Class Size: 35	Department:	research. Applicable English Cluster: Media, Culture, and Communication. English
Prerequisites: Restrictions: Description:	ENG 131 or permission of instructor. Permission of instructor required Spring 2009. The study and practice newspaper and magazine stories, such profiles. Emphasis will be on the con techniques of non-fiction writing. Ap Media, Culture, and Communication.	of longer, more complicated a as investigations and sideration of the various	Course: Title: Instructor: Prerequisites: Description:	ENG 138 Journalism Case Studies Memmott, J. Class Size: 25 Eng 131, or permission of the instructor. Spring 2009. The study and analysis of a few high-impact news stories. Through readings and interviews with the reporters and editors who worked on the story, as well as interviews with the subjects of the stories, the class will gain an understanding of the
Department: Course:	English ENG 134			issues involved in covering major news events.
Title:	Public Speaking		Department:	English
Instructor:	Smith, C	Class Size: 20	Course:	ENG 161
Coursework:	ENG 134 contains two quizzes, a fina		Title:	Introductory Video and Sound
	to be given by the student. Speeches is explanatory, and problem solving add		Cross-listed: Instructor:	FMS 161; SA 161 Middleton, J Class Size: 15
	impromptu addresses will also be giv		Restrictions:	Permission of instructor required
Description:	Spring 2009. Basic public speaking i Emphasis is placed on researching sp language and delivery, and listening of presentations. ENG 134 contains two four speeches to be given by the stud- tribute, persuasive, explanatory, and p Applicable English Cluster: Media, C	s the focus of this course. eeches, using appropriate critically to oral quizzes, a final exam, and ent. The speeches include a problem solving address.	Description:	Spring 2009. This course introduces the basic aesthetic and technical elements of video production. Emphasis is on the creative use and understanding of the video medium while learning to use the video camera, video editing processes and the fundamental procedures of planning video project. Video techniques will be studied through screenings, group discussions, readings, practice sessions and presentations of original video projects made during the course.
Department: Course: Title: Instructor: Description:	English ENG 135 Debate Johnson, K Spring 2009. The purpose of this cou appreciation for and knowledge of cr decision-making through argumentation both sides of a topic, write argument formal and informal debates. Student	itical thinking and reasoned ion. Students will research briefs, and participate in	Department: Course: Title: Instructor: Description:	English ENG 171 Technical Theater Rice, G. Class Size: 15 Spring 2009. An introduction to Technical Theatre and Theatre Technology: its materials, techniques and equipment. Focuses on the principles and practice of set construction; the nature and use of electricity; lighting and sound equipment; tools; production

organization and management; and the importance of safety in all areas. Course will include both lecture and significant hands-on experience. Practical laboratory work in association with the productions of the International Theatre Program is included.

Department: Course: Title: Instructor: Description:	English ENG 175 Acting Techniques Hoskins, D Spring 2009. Acting Techniques focuses on developing the student's ability to analyze texts from a performer's viewpoint, on heightening the actor's sensitivity to language, on developing the actor's physical and vocal technique, on building a deeper awareness of character and characterization in the student actor, and on engaging and actively developing creativity and imagination. This is done by the constant investigation, rehearsal, and presentation of assorted texts ranging from poetry to contemporary and classical scenes and monologues. Attendance at all classes is mandatory.
Department: Course: Title: Instructor: Description:	English ENG 177 Voice & Movement For The Actor Browne, P; Ware, S Spring 2009. This is a 4 credit, full semester course, aimed at helping student performers explore the full range and expressiveness of their speaking voice, explore the relationship between text and vocal expression, expand their movement ranges, while learning a descriptive system for understanding movement and meaning, and analyze their own movement profiles as actors, creating characters through clear movement
Department: Course: Title: Cross-listed: Instructor: Description:	choices, and embodying these characters fully. English ENG 200 History of the English Language ENG 400 Higley, S Spring 2009. The history of the English language is a history of upheavals and invasions. Brought to the British Isles by the Angles and the Saxons in the fifth century, "English" and the people who spoke it rapidly ousted the Brythonic (or p-Celtic) people and established the Old English "heptarchy": the seven realms of Anglo-Saxon England. These nations, in turn, were beset by Viking raids and the intrusions of Scandinavians; and after King Alfred had made a treaty with the so-called Danes, and had set the stage for a flowering of English culture and learning

that left us the Old English literature we study today, William of Normandy conquered English in 1066, changing forever the direction England would take, and the nature of its language. We will study texts from the Old, Middle, and Modern English periods, and chart the ways in which our language grew from a relatively simple Germanic tongue to the powerful, ductile, and eclectic language it is today, with one of the largest vocabularies in the world. Borrowings from French, Latin, and Greek greatly enriched our lexicon in the Old, Middle, and early Modern Periods, and as the English settled colonies in America, which in turn became a melting pot of different nationalities, increasing its vocabulary. We will read texts about the English language by King Alfred the Great, Aelfric (10th C.), Robert of Gloucester, Chaucer, the Gawain-Poet, Caxton, Shakespeare, Milton, Donne, Mulcaster, Locke, Hume, Defoe, Swift, and Samuel Johnson; Thomas Jefferson, Noah Webster and the start of American dictionaries; and trace writings about 19th and 20th century concerns of language. We will end with discussions of Black Dialect, Ebonics, "uptalk," "Valley Speak," and language issues of concern to women. This class will fulfill the pre-1789 requirement for the major. Applicable English Cluster: Medieval Studies.

Department:
Course:
Title:
<b>Cross-listed:</b>
Instructor:
Description:

English ENG 211

Milton's Poetry ENG 411 Gross, K Spring 2009. The course focuses on the writings of John Milton, one of the most challenging of English poets, famous for his radical religious and political beliefs as much as for his poetic inventiveness. Our work will center Milton's epic poem Paradise Lost, which re-tells the story of the creation of the world and the temptation and fall of Adam and Eve, interwoven with the story of the fall of Satan and the creation of hell. Well also read a number of Milton's shorter works of lyric and dramatic poetry, such as his biblical tragedy, Samson Agonistes, and look at some of his prose writings, particularly his essay on the freedom of writing and thought, Areopagitica. We'll be discussing Milton's poetic language, his ways of transforming both classical and biblical texts, his stark dramas of human desire and moral choice, and his reflections on the nature of power, both human and divine. In order to get an idea of Milton's crucial influence on later English writers, we will end the semester by reading selections from the poetry of William Blake, especially The Marriage of Heaven and Hell, and Mary Shelley's Frankenstein. No prerequisites. The course fulfills the pre-1800 requirement

Department: Course: Title: Cross-listed: Instructor: Coursework: Description:	for the English major, and can be used for English clusters in "Great Books, Great Authors" and "Poems, Poetry, and Poetics." English ENG 218 Literature of the American Revolution ENG 418 Glover, J There will be one or two short papers, a long term paper, and perhaps, an in-class presentation. Spring 2009. The American Revolution was also a literary revolution. Friends and foes of independence used literature as a vehicle for debating ideas of liberty and nationhood. This course will consider American literature during the period of the revolution. Our readings will span numerous genres, including political tracts, novels and poetry. We will consider a range of authors, such as Thomas Jefferson, Benjamin Franklin, James Fenimore Cooper, Lydia Maria Child, William Apess, Frederick Douglass, Herman Melville, and Nathaniel Hawthorne. Along the way, we will explore the many diverse literary responses to revolutionary ideas, with a special emphasis on how early national ideas of liberty applied to women, slaves, and Native Americans and other people excluded from the newly emergent nation.	Description: Department: Course: Title: Cross-listed: Instructor: Description:	Spring 2009. This is a course about how to read a poem. It look at poetry's extreme uses of metaphor, its use of a language by turns more raw and more oblique, plainer and more ambiguous than ordinary prose. We'll be thinking about the power of poetic gesture and poetic voice, about poetry's way of telling a story and its way of keeping secrets, and about poetry's attention to peculiarly charged moments of recognition, emotion, memory, and mystery. We will also look closely at the formal tools of poetry, the use of rhyme and meter, lines and stanzas, and the use of traditional genres such as riddle, ballad, hymn, ode, and elegy. Readings will include the work of poets writing from the sixteenth to the twentieth century, with some emphasis on the lyric poetry of William Shakespeare, John Donne, John Keats, Walt Whitman, Emily Dickinson, Wallace Stevens, and Elizabeth Bishop. Evaluation will be based on class participation and written essays. No prerequisites, no final exam. Applicable English cluster: Major Authors; Poems, Poetry, and Poetics. English ENG 243 Studies in a Major Author: Jane Austen ENG 443; WST 243; WST 443 Mannheimer, K Spring 2009. Blending clear-eyed social commentary with a faith
Department: Course: Title: Cross-listed: Instructor: Description: Department:	English ENG 233 Modern Poetry ENG 433 Longenbach, J Spring 2009. This is a course in four of the most beautiful and difficult long poems written during the twentieth century: T. S. Eliots "Four Quartets," H.D.'s [Hilda Doolittles] "Trilogy," Ezra Pounds "Pisan Cantos," and Wallace Stevens's "Notes toward a Supreme Fiction." As we approach our concentrated experience of these four poems, we will read shorter poems by each poets, and we will explore the particular difficulties of writing a long poem during a time when the given forms of logic, narrative, and representation seemed inadequate or even dishonest. These challenging poems not only record but embody the discovery of alternative ways of inhabiting our cultural and our interior lives.	Department: Course: Title: Cross-listed: Instructor: Description:	<ul> <li>in romantic love, festooning mordant satire with enchantedly happy endings, Jane Austens novels subsist on contradiction and enjoy more popularity than ever. This course will place Austen in the context of her times while also analyzing her continued appeal. Readings include Northanger Abbey, Sense and Sensibility, Pride and Prejudice, Mansfield Park, Emma, and Persuasion, as well as novels by such authors as Frances Burney, Maria Edgeworth, Anne Radcliffe, and the Brontes.</li> <li>English ENG 243</li> <li>Studies in a Major Author: Toni Morrison and Critical Theory ENG 443; WST 243; WST 443; AAS 241</li> <li>Li, S Class Size: 30</li> <li>Spring 2009. "Narrative is radical, creating us at the very moment it is being created." T. Morrison Toni Morrison has emerged as one of the most influential writers and critics in contemporary American culture. This course will approach her work from a broad range of critical perspectives including black feminist</li> </ul>
Course: Title: Cross-listed: Instructor:	ENG 241 Lyric Poetry ENG 441 Gross, K.		thought, psychoanalysis, trauma theory, Biblical exegesis, postcolonial analysis, and critical race theory. Although this class will emphasize rigorous study of her literary work, we will also pay close attention to her contributions to literary criticism,

her role in public life as well as her forays into political and national debates. In our study of her novels, we will explore such issues as the importance of history and myth in the creation of personal identity, constructions of race and gender, the dynamic nature of love, the role of the community in social life, and the pressures related to the development of adolescent girls. We will also examine the changing nature of Morrison's reception by critics and academics, and consider how and why she has achieved such widespread acclaim and influence in addition to generating significant controversy and attack. Concluding class discussions will focus on how Morrison has reconfigured the relationship between creative author and academic critic, her literary and popular reputation, and her broad influence on the study of American literature.

Department: Course: Title: Cross-listed: Instructor: Description:

English ENG 243 The Brontes ENG 443; WST 243; WST 443 London, B

Spring 2009. An isolated country parsonage. A half mad father. A wastrel brother addicted to drugs. Three uniquely gifted sisters who burned their hearts and brains out on the moors but not before leaving us some of the most passionate and revolutionary literature of the 19th century. This is the stuff of the Bronte legend. This course will explore the continuing appeal of the Brontes and the peculiar fascination that they have exercised on the literary imagination. Through intensive study of some of the best-loved novels our culture has produced the literary works of Charlotte, Emily, and Anne Bronte we will explore the roots and reaches of the Bronte myth. We will also consider the Brontes' legacy in today's popular romantic fiction and in some of the many adaptations (and continuations) of their work in print and on the screen. And we will look at our seemingly insatiable appetite for new tellings of the Brontes' life stories. The course, then, will consider not the only the Brontes' literary productions, but also our cultures production and reproduction of the Brontes over the years. Applicable Clusters: Gender and Writing; Great Books, Great Authors; Novels.

Department:	English
Course:	ENG 244
Title:	Early Modern Travel Writing
Cross-listed:	ENG 444
Instructor:	Mannheimer, K
Description:	Spring 2009. The eighteenth century saw the rise of the modern
_	"tourist" (the word itself dates to 1780). At the same time,

mercantile capitalism and national interest spurred unprecedented rates of colonial expansion. Explorers, diplomats and scientists engaged with many peoples and places for the first time. The period also witnessed the height of that mass involuntary travel -slavery -- that gave shape to the Atlantic World. In all of the resulting narratives, an instructive juxtaposition emerges -sometimes explicit, sometimes implicit -- in which the foreign is discursively "domesticated," while "home" comes to seem strange. Indeed, travel-writings potential for societal critique was one that satirists quickly grasped, and deployed in myriad variations -- from descriptions of invented lands (Gullivers Travels), to accounts of Europe by "Peruvian Princesses" or "Chinese Philosophers." In this course we will examine all of these kinds of travel- writing, while also considering the shape and dimensions of this ill-defined genre, which often branches into historical meditation, autobiography, biography, philosophy, and aesthetics. Authors will include Bacon, Boswell, Cook, Defoe, Equiano, Goethe, Goldsmith, Graffigny, Johnson, Montagu, Montesquieu, Sterne, Swift, and Voltaire.

Department: Course: Title: Cross-listed: Instructor: Description:	English ENG 244 Myth & Fairy Tale ENG 444 Peck, R Spring 2009. This course explores ways in which myth functions to create psychological and social identities within cultural frameworks. We will explore tales, visual art, musicals, opera, poetry, and cinema. The texts concentrate primarily on a constellation of Cinderella and Beauty and the Beast adaptations, with excursions into Little Red Riding Hood, Sleeping Beauty, Frog Prince, and Jack stories. Our concern will be with the political, didactic, and gendered implications of action/adventure plots, paradigms of exile and return, ideologies underlying the dynamics of oppression, pain fetishes, aspiration, and recovery. We will examine issues of childhood, adolescence, middle age, and old age as myth addresses the concerns of each. We will be particularly interested in historical perspectives as societies perpetually revise and revitalize their visions of themselves through the rewriting of their mythologies.
Department:	English
Course:	ENG 244
Title:	Ethnicity and American Literature: Native American Literature

**Cross-listed:** 

Instructor:

**ENG 444** 

Glover, J

<b>Description:</b>	Spring 2009. Spanning the history of the Americas, this course will examine a wide array of writings by and about Native people, from the literature of the oral tradition to the poetry, fiction and prose of the twentieth century. Our readings will be motivated by a concern with the many strategies Native writers have used for bringing the past to bear on the present, including reenactment, parody, and protest. We will engage texts by contemporary writers such as Sherman Alexie, Vine Deloria, and Leslie Marmon Silko alongside works by authors from the nineteenth century and earlier, such as William Apess, David Walker, and John Rollin Ridge. We will also consider texts by non-Native authors who have written about Native Americans, such as James Fenimore Cooper and Ian Frazier.		century U.S. literature or Asian Pacific Islander American history will be helpful, but not necessary. (For those who have not taken history courses or who wish for a refresher see the books by Such Chan or Ronald Takaki, listed under recommended texts.) In addition to the study of genres, we will analyze Asian/Pacific Islander/American texts by interrogating myths, "foundational fictions", fantasies and the fantastical. Edward Said usefully argues in Orientalism that Europe imagined the "Orient" since it "helped to define Europe (or the West) as its contrasting image, idea, personality, experience" (1978). We will read works of Asian American literature that revise and incorporate Asian myths, and contrast these with the West's popular imagination of the "Orient". Applicable English Cluster: Literature and Cultural Identity.
Department: Course: Title: Cross-listed: Instructor: Description:	English ENG 245 The Faerie Queene ENG 445 Guenther, G Spring 2009. Public sex? Gruesome violence? Heroic fairies and sinister magicians? Sure: Edmund Spenser's vast epic, The Faerie Queene, contains all of that. It also contains some of the most aesthetically sophisticated and philosophically challenging poetry in the English language. This course will undertake the adventure of reading the entire Faerie Queeneand only The Faerie Queeneover the course of one semester. At the end of our journey, we will understand much about English Renaissance art, magic, politics, theology, psychology, philosophy, gender, sexuality, warcraft, and literary theory, as well as love, ambition, depression, self-control, pleasure, dishonesty, gratitude, aspiration, honor, and much, much more. Course requirements: 3 3-page papers, a midterm and a non-cumulative final of identifications of the text.	Department: Course: Title: Cross-listed: Instructor: Restrictions: Description:	English ENG 260 Studies in Film History: Films of the 30's ENG 460 Grella, G Not open to freshmen Spring 2009. The course will deal with a selection of American films from the richest and possibly most important decade in the history of Hollywood. We will screen and discuss a variety of genres, from horror to documentary, concentrating on the films themselves, their place in the history of cinema, their relevance to social, political, and cultural issues. Supplementary reading will include texts on the period and on films of the time. Two or three papers will be required, along with a final examination. Possible films include "King Kong," "Frankenstein," "Our Daily Bread," "Public Enemy," "Golddiggers of 1933," "Dinner at Eight," etc. Applicable English Clusters: Media, Culture, and Communication; Modern and Contemporary Literature.
Department: Course: Title: Cross-listed: Instructor: Description:	English ENG 250 Asian American Literature & Film ENG 450 Niu, G Spring 2009. Asian American Literature is primarily a literature of the 20th and 21st centuries, with dramatic growth in the past half century or so. We will focus on the literary genres of APA works from the past centurydrama, fiction, poetry, memoirand we will also pay attention to cinematic texts. Our literature includes works by Chinese American, Filipina American, Indian American, Korean American, Japanese American, and Vietnamese American authors. Some prior knowledge of 20th	Department: Course: Title: Cross-listed: Instructor: Description:	English ENG 265 Issues in Film: Documentary, Mock Documentary, Reality TV ENG 465, FMS 252C Middleton, J Spring 2009. This course combines a survey of major historical movements and styles in documentary film with an examination of more recent trends and challenges to the tradition. So, in addition to studying the expository political documentary, ethnographic film, and the direct cinema and cinÈma vÈritÈ movements, we will explore forms including reality TV, mock documentary, and autobiographical film and video. Applicable English cluster: Media, Communication, and Culture.

Department: Course: Title: Cross-listed: Instructor: Description:	English ENG 268 Film History: Museum Studies ENG 468;FMS 254;FMS 454;AH 272;AH 472 Loughney, P Class Size: 20 Spring 2009. Major museums around the world are now collecting motion pictures and other types of moving image and audio-visual art with a level of commitment equal to their traditional interests in paintings, sculptures and other established art forms. These creative works exist in unique formats that bring special challenges to curators and archivists responsible for their conservation and proper exhibition. Taking full advantage of the George Eastman House's rich archival film collection and caractering facilities, this course offers instruction in curatorial and	Restrictions: Description:	Permission of instructor required Spring 2009. This new workshop will offer students a chance to write creatively in the genres of fiction and creative nonfiction. As we explore the murky border that separates the two, well be looking for qualities that are shared by both genres, and well examine the ways their defining differences are reshaped in inventive prose. In particular, well focus on the imaginative representation of real places in fiction, travel literature, and autobiography. The reading list will include a diverse group of writers, including Thoreau, Barry Lopez, Bruce Chatwin, James Joyce, Isak Dinesen, Italo Calvino, and Annie Dillard. This course will fulfill the 200-level requirement for the Creative Writing major and minor and can be used for the Creative Writing cluster.
Department: Course:	screening facilities, this course offers instruction in curatorial and preservation standards for motion picture, video, digital and audio materials with a contextual focus on museum, library and archive institutions. Class instruction emphasizes basic concepts of preservation, research, programming, cataloging, digital technologies and preservation; management and interpretation of collections; museum and institutional collections development policies; museum architecture relating to audio-visual media; fund raising and education. Students will be assisted in selecting a topical area of interest in film and media studies, relating to their broader academic pursuits, from which they will develop a special research project. 35mm archival film and other media screenings presented on class night in the Dryden Theatre at 8:00pm are considered part of the class. English ENG 271	Department: Course: Title: Cross-listed: Instructor: Restrictions: Description:	English ENG 281 Literary Journalism ENG 481 Grella, G Not open to freshmen Spring 2009. This course, essentially, will attempt to deal with the subject of creative nonfiction, the writing of publishable prose, the sort of writing about literature, film, the arts, culture, etc. that appears in newspapers and magazines. It will also include some work in practical criticism. We will read and discuss numerous examples of various excellent, lively, innovative essays and articles by some of the best writers of the 20th century, in general circulation publications. Students will try their hand at book, film, drama, and art reviewing of the sort that distinguishes some of the best periodicals in the country. We will
Title: Instructor: Description:	Advanced Technical Theatre Rice, G Spring 2009. This course investigates technical theater beyond the realms of Eng 170 (Technical Theatre). It focuses on work related to the scenic design and technical production of the semester's Theatre Program productions. Working in small seminars and one-on-one tutorials, the instructor will assist students in learning more in the chosen technical areas and about problem-solving scenic and technical questions raised by the set/s being built. Course work will consist of supervisory responsibilities, one major and several smaller research projects.	Department: Course: Title: Cross-listed: Instructor: Description:	<ul> <li>discuss matters of style, individual voice, and ways to publish one's work.</li> <li>English ENG 283 Media ABC: The Amazing Printed Word ENG 483; FMS 249 Eaves, M,Lee, R Spring 2009. Media ABC is an introduction to the very idea of medium and mediaas in "the medium of photography" and "digital media." The goal is to come to a basic understanding of that concept. The perspective of the course is broadly historical</li> </ul>
Department: Course: Title: Instructor:	English ENG 274 Advanced Creative Writing: Creative Prose Scott, J Class Size: 15		and critical. The guiding assumptions are two: that media are not peculiar to the modern world, and that all mediathe human voice, books, paint, electronic filesshape their "content"words, pictures, sounds, etc.and their authors and their audiences. There

have always been media, and there must be media, because life cannot be lived without them. This year's topic is the printed word--the dominant medium of communication for the past five centuries. Only very recently, because of the "digital revolution," has print begun to lose some of its power and influence as we experience a "digital revolution." This remarkable media shift puts us among the first explorers to arrive on the scene of what later generations will surely see as epoch-making change that we cant yet fully grasp. But we should take advantage of our own unique intellectual opportunity to look back on the history of print from the powerful new perspective of digital media. This is a special year for Media ABC. We are participating in a series of experiments with Humanities Labs, where we will be able to extend our exploration of print by putting facts and theories into practice. Note that students in the Media ABC Humanities Lab must register for the recitation section when registering for this course. Work in the Humanities Lab will replace all formal exams. Applicable English Cluster: Media, Culture, and Communication.

Department: Course: Title: Instructor: Description:	English ENG 286 Presidential Rhetoric Smith, C <b>Class Size:</b> 30 Spring 2009. "Presidential Rhetoric", taught by former Presidential speechwriter Curt Smith, helps students critically examine the public rhetoric and themes of the modern American presidency. Particular attention will be given to the symbolic nature of the office, focusing on the ability of 20th- century presidents to communicate via a variety of forums, including the press conference, inaugural and acceptance speeches, political speech, and prime-time television address. Mr. Smith will draw on many of his experiences in Washington and with ESPN/ABC Television to link the most powerful office in the world and today's dominant medium. Applicable English Cluster: Media, Culture, and Communication.
Department: Course: Title: Instructor: Description:	English ENG 291 Plays in Production von Steulpnagel, M,Maister, N,Rice, G Spring 2009. Each student in Plays in Production participates fully in the exciting behind-the-scenes world of theatrical production. Students build sets, create and make props and costumes, hang and rig lighting and sound equipment, and create and distribute publicity materials for the plays currently in production in Todd Theatre. The class comprises a once-weekly

lecture and a series of practical labs. This 4.0-credit course meets for the entire semester. Applicable English Cluster: Plays, Playwrights, and Theater.

Department: Course: Title: Instructor: Restrictions: Description:	English ENG 293 Plays in Performance: Curse of the Starving Class von Steulpnagel, M Permission of instructor required Spring 2009. "Plays in Performance" is a class made up of actors and stage managers working on the current production in Todd Theatre. Actors are cast after auditioning at the beginning of each semester. Students wishing to stage manage should approach the director of the production either at the time of auditions or before the beginning of the play's rehearsal process. Although there is no written component for this course (the performance of the play constitutes a final "exam"), a significant time commitment is required of actors and stage managers, both on weekday nights and over weekends. This class meets during the second half of the semester. Applicable English Cluster: Plays, Playwrights, and Theater.
Department: Course: Title: Instructor: Restrictions: Description:	English ENG 295 Plays in Performance: New Play Maister, N Permission of instructor required Spring 2009. "Plays in Performance" is a class made up of actors and stage managers working on the current production in Todd Theatre. Actors are cast after auditioning at the beginning of each semester. Students wishing to stage manage should approach the director of the production either at the time of auditions or before the beginning of the play's rehearsal process. Although there is no written component for this course (the performance of the play constitutes a final "exam"), a significant time commitment is required of actors and stage managers, both on weekday nights and over weekends. This class meets during the first half of the semester. Applicable English Cluster: Plays, Playwrights, and Theater.

Department:	English	
Course:	ENG 297	
Title:	Stage Management: Spring 2009	
Instructor:	Rice, G, Maister, N	
<b>Description:</b>	Spring 2009. Students in Stage Management: Spring 2009 will	
	get an in-depth introduction to and immersion in stage managing	
	a theatrical production. In addition to class work covering all	

areas of management skills, safety procedures, technical knowledge and paperwork, students will be expected to serve as an assistant stage manager or production stage manager on one (or both) Theatre Program productions in their registered semester. Applicable English Clusters: Plays, Playwrights, and Theater; Theatre Production and Performance.

Department: Course: Title: Instructor: Restrictions: Description:	English ENG 299 Performance Lab: Curse of the Starving Class Childs, R Permission of instructor required Spring 2009. Mandatory acting lab for actors in Eng 293. 1.0 credit.	
Department: Course: Title: Instructor: Description:	English ENG 360 Special Projects: Theatre Maister, N <b>Class Size:</b> 15 Spring 2009. This is an independently designed course, focusing on specific theatre or theatre-related projects, and demanding significant skill application or acquisition, independent and self- motivated research, including advanced written work, if appropriate. Topics may include elements of theatre related to production, management and/or design.	
Department:	English	
Course:	ENG 375	
Title:	Seminar in Fiction Writing	
Cross-listed:	ENG 475	
Instructor:	Schottenfeld, S Class Size: 15	
<b>Restrictions:</b>	Permission of instructor required	
Description:	Spring 2009. This is a workshop for students who have completed ENG 121 or have some experience writing fiction on their own and are ready to concentrate on more ambitious projects. We'll read short stories by contemporary writers along with fiction by the students in the workshop, and we'll discuss ways writers can sharpen the conversation between text and reader. We'll also consider editing and reviewing techniques. Students will be expected to write and revise three original stories. Applicable English Cluster: Creative Writing.	
Department: Course: Title:	English ENG 376 Seminar in Poetry Writing	

Eng 476

Longenbach, J

**Cross-listed:** 

Instructor:

Restrictions: Description:	Permission of instructor required Spring 2009. Advanced creative Work by various contemporary p for explorations into technique at poems will be discussed weekly. extensive reading and research of journal. Assignments will be give for students who wish to design a series. Prerequisites: Eng 122 or instructor required. Applicable E	writing workshop in poetry. boots will provide the framework and poetic narrative. Students' Students will be expected to do in their own and to keep a poetic en, but there is a lot of latitude a poetic project or work on a equivalent work. Permission of
Department:	English	
Course:	ENG 380	
Title:	The Nobel Prize: Studies in Inter	national Literature
Cross-listed:	ENG 480	
Instructor:	*	
Restrictions:		
Description:	London, B <b>Class Size:</b> 15 Permission of instructor required Spring 2009. This course will provide an opportunity to sample an exciting body of contemporary literature, some written by authors already widely acclaimed at the time they received the Nobel Prize and some by writers suddenly catapulted into fame and international recognition. While a central focus of the course will be the reading and discussion of the literature itself, we will also consider how receipt of the prize changed the writers lives and literary reputations. Since its inception, moreover, the Nobel Prize for Literature has been a site of controversy and debate over aesthetics and politics, and over how literature speaks to both local and global audiences. In the US, where less than 5% of the literature published each years is literature in translation, Nobel prize-winning literature (when not originally written in English) is often the only modern literature Americans read in translation. In reading this literature, then, we will consider the question of translation, and the role of the Nobel Prize in creating and promoting an international literature. We will also consider the special challenges this literature poses for us as readers. While the awarding of the prize has often been a source of national pride for the writers home country, some winners have been censured at home and the criteria for the prize is awarded, and we will look at some of the particular controversies and debates it has generated.	
Department:	English	
Course:	ENG 380	

Course: Title: Cross-listed: Instructor:

Class Size: 15

English ENG 380 Harlem Renaissance ENG 480; AAS 352 Tucker, J

as Samuel R. Delany, Toni Morrison, and August Wilson. Special attention will be paid to the topic of migration, constructions of black identity, and the ways in which both sets of texts address black identity, and the ways in which both sets of texts address difference within the African-American Studies.of video production. Emphasis is on the creative use and understanding of the video medium while learning to use the video camera, video effining video projects. Video techniques will be studie through screenings, group discussions, readings, practice assions and presentations of original video projects made durin the course.Department:English Course:Film and Media Studies Course:Film and Media Studies Course:Department:English Course:Film and Media Studies Course:Film and Media Studies Course:Bescription:Spring 2009. The University of Rochester International Theatre Programs PR Internship provides interested students with an introduction to all aspects of Marketing and Public Relations, from writing press releases, to scheduling photo shoots, to creating advertising banners, to developing marketing campajagns for those theatrica develop marketing campajagns for those theatrica develop marketing campajagns for those theatrica develops of the associal production of broadcast industry. Designed i provide a broad, rigorous orientation for understaind basis elements of media production of broadcast industry. Designed i provide a broad, rigorous orientation for understaind basis elements of media production of broadcast industry. Designed i provide a broad, rigorous orientation for understaind basis elements of media production of broadcast industry. Designed i provide a broad, rigorous orientation for understaind basis elements of media production of broadc	Restrictions: Description:	Open only to Junior and Senior majors of the offering department Spring 2009. The black cultural explosion of the 1920s known as the Harlem Renaissance produced some of the most importantworks of the African- American literary tradition. This course will provide a survey of texts that reflect the spirit of the era, from writers such as Jessie Fauset, Langston Hughes, Zora Neale Hurston, Nella Larsen, Alain Locke, and Jean Toomer. A variety of genres will be covered, including the poetry of writers such as Countee Cullen and Claude McKay, essays by figures	Department: Course: Title: Cross-listed: Instructor: Description: Department:	Film and Media Studies FMS 131 Introduction to Media Studies ENG 118/AH 102 Niu, G. Please see ENG 118 for the course description. Film and Media Studies
Hat are set in his milieu to ascertain what the Harlem Renaissance has meant for later African -American Witters such as Samuel R. Delany, Toni Morrison, and August Wilson. Special attention will be paid to the topic of migration, constructions of black identity, and the ways in which both sets of texts address difference within the African-American Community. Applicable African American Studies.Permission of instructor required Understanding of the video medium while learning to use the video comment, video of timp processes and the fundamental procedures of planning video projects. Video techniques will be sussions. Teachings, group discussions, readings, practic sessions and presentations of original video projects made durin the course.Department: Course:English Title: Theater Internship: PR & Marketing Programs PR Internship provides interveted students will am introduction to all aspects of Marketing and Public Relations, from writing processes to scheduling photo shoots, to creating advertising banners, to developing marketing campaigns for those theatrical events in Todd Theatre. Additionally, PR interns work Front of House/Box Office and are responsible for the public face of the Program.Department: English Course: EMS 200Film and Media Studies toruse, energin and addition of news, government regulation, economic mass media institutions and role of media in society, including provide a broad, rigorous orientation for understanding basic elements of media production of broadcast practices and impact. Historical development media, addition of muck government regulation, economic media institution of broadcast industry. Designed i reporting, writing, editing, delivery and production of broadcast media.Department: English Course:English tor those theatrical even		works by Mary Burrill and Georgia Douglass Johnson. Autobiography, music, and film will also be included. In	Title: Cross-listed:	Introductory Video & Sound SA 161/ENG 161
Department:English ENG 398 Title:Department:Film and Media Studies Course:Film and Media StudiesTors:Maister, NClass Size: 8 Permission of instructor required Description:Department:Film and Media Studies Course:FMS 207 Title:Description:Spring 2009. The University of Rochester International Theatre Programs PR Internship provides interested students with an introduction to all aspects of Marketing and Public Relations, for mow riting press releases, to scheduling photo shoots, to creating advertising banners, to developing marketing campaigns for those theatrical events in Todd Theatre. Additionally, PR 		that are set in this milieu to ascertain what the Harlem Renaissance has meant for later African- American writers such as Samuel R. Delany, Toni Morrison, and August Wilson. Special attention will be paid to the topic of migration, constructions of black identity, and the ways in which both sets of texts address difference within the African-American community. Applicable English Clusters; Literature and Cultural Identity; American and	<b>Restrictions:</b>	Permission of instructor required This course introduces the basic aesthetic and technical elements of video production. Emphasis is on the creative use and understanding of the video medium while learning to use the video camera, video editing processes and the fundamental procedures of planning video projects. Video techniques will be studied through screenings, group discussions, readings, practice sessions and presentations of original video projects made during
Department:EnglishDepartment:Film and Media StudiesCourse:ENG 452Course:FMS 220Title:Theater in EnglandTitle:Film as ObjectInstructor:Peck, RCross-listed:FMS 420Restrictions:Open only to graduate students in offering departmentInstructor:Bernardi, J.Description:Fall 2008. See description for ENG 252.Description:Film Studies involves the critical analysis of the pictorial and narrative qualities of motion pictures, film theory, and film	Course: Title: Instructor: Restrictions:	ENG 398 Theatre Internship: PR & Marketing Maister, N Class Size: 8 Permission of instructor required Spring 2009. The University of Rochester International Theatre Programs PR Internship provides interested students with an introduction to all aspects of Marketing and Public Relations, from writing press releases, to scheduling photo shoots, to creating advertising banners, to developing marketing campaigns for those theatrical events in Todd Theatre. Additionally, PR interns work Front-of-House/Box Office and are responsible for the public face of the Program with regard to other university events (Alumni and Homecoming weekends/Meliora Weekend, etc.) PR Interns report weekly to the Artistic Director of the	Course: Title: Cross-listed: Instructor:	<ul> <li>Film and Media Studies</li> <li>FMS 207</li> <li>Broadcasting in the Digital Age</li> <li>MUR 161</li> <li>Rogers, S.</li> <li>A descriptive and critical analysis of the nature of electronic mass media, broadcast practices and impact. Historical development of mass media institutions and role of media in society, including evaluation of news, government regulation, economics, emerging technologies, and audience dynamics, as well as decision-making and organizational aspects of the broadcast industry. Designed to provide a broad, rigorous orientation for understanding basic elements of media production as well as skills training in reporting, writing, editing, delivery and production of broadcast</li> </ul>
Film and Media Studies history, understanding film as both industry and creative art. This	Course: Title: Instructor: Restrictions:	English ENG 452 Theater in England Peck, R Open only to graduate students in offering department Fall 2008. See description for ENG 252.	Course: Title: Cross-listed: Instructor:	Film and Media Studies FMS 220 Film as Object FMS 420 Bernardi, J. Film Studies involves the critical analysis of the pictorial and

Film and Media Studies

course unconventionally focuses on the tangible object at the origin of the onscreen image, and what we can learn about the social, cultural and historical value of motion pictures and national film cinemas through an understanding of Film as an organic element with a finite life cycle. Focus is on the photographical element, but includes a consideration of alternative capture media.

Department: Course: Title: Cross-listed: Instructor: Description:	<ul> <li>Film and Media Studies</li> <li>FMS 236</li> <li>Monster, Ghosts, and Aliens</li> <li>GER 212/412/CLT212A/412A</li> <li>Gustafson, S.</li> <li>This course focuses on the horror genre as popular entertainment in Germany, England, and the US in the 19th and 20th centuries.</li> <li>Particular attention will be paid to the construction of others as monsters (Frankenstein, vampires, devils, aliens, etc). Authors to include: Shelley, Stoker, Rice, and King. Films to include: The Haunting, Alien, The Shining, and Silence of the Lambs. This course is part of the Horror in Literature &amp; Film Cluster.</li> </ul>
Department: Course: Title: Cross-listed: Instructor: Description:	Film and Media Studies FMS 246 Bright Lights, Big City GER 252/CLT252/452/FMS446 J. Hwang In the early twentieth century, our conceptualization of the city had a significant impact on how we understood our interactions with others and the notion of the individual. In this will look at a wide variety of texts including newspaper articles, essays, films and fiction to explore the following questions. What is the relationship between technology and man? How does the individual navigate the space of the city? What role do class and gender play in our ability to move through the city? What is the relationship between modernity and urban life?
Department: Course: Title: Cross-listed: Instructor: Description:	Film and Media Studies FMS 249 Media ABC ENG 283/483 Eaves, M It helps to know first what Media ABC is not. It is not a traditional media studies course; it does not focus on modern mass media or the politics of media. Instead, Media ABC is an introduction to the very idea of medium and mediaas in, for example, the "medium of photography" and "contemporary media." The goal is to come to a basic understanding of that

concept. The perspective of the course is broadly historical and comparative. The guiding assumptions are four--that media of communication are not peculiar to the modern world --that the form of communication the human voice, the engraving, the telegram, the TV, the digital file--shapes its "content"--words, pictures, sounds, etc.--and that the unique characteristics of any one medium are made more visible by comparison with the characteristics of other media --media never stand alone; they participate in systems of communication there have always been media, and there must be media, because life simply cannot be lived without them.

Department: Course: Title: Cross-listed: Instructor: Description:	Film & Media Studies FMS 252C Documentary, Mock Documentary, Reality TV ENG 262/462 Middleton, Jason Class Size: 25 This course combines a survey of major historical movements and styles in documentary film with an examination of more recent trends and challenges to the tradition. So, in addition to studying the expository political documentary, ethnographic film, and the direct cinema and cinÈma vÈritÈ movements, we will explore forms including reality TV, mock documentary, and autobiographical film and video.
Department: Course: Title: Cross-listed: Instructor: Description:	Film and Media Studies FMS 254 Museum Studies ENG268/468/AH272/472/FMS454 Loughney, P. <b>Class Size:</b> 20 Please see ENG 268 for the course description.
Department: Course: Title: Cross-listed: Instructor: Restrictions: Description:	Film Studies FMS 254D Film History: Films of the Thirties ENG 260/460 Grella, G. Not open to freshmen The course will deal with a selection of American films from the richest and possibly most important decade in the history of Hollywood. We will screen and discuss a variety of genres, from horror to documentary, concentrating on the films themselves, their place in the history of cinema, their relevance to social, political, and cultural issues. Supplementary reading will include texts on the period and on films of the time. Two or three papers will be required, along with a final examination. Possible films

include "king Kong," "Frankenstein," "Our Daily Bread," "Public Enemy," "Golddiggers of 1933," "Dinner at Eight," etc.

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Film And Media Studies FMS 260A Introductory Digital Art SA 151 Shindelman, M. <b>Class Size:</b> 10 Some familiarity with Macintosh computer required For the purpose of this course, the computer and software will be a medium of artistic production. Students will use writings, and readings on contemporary art practice and theory to create work within the framework of contemporary digital art. Software, namely Adobe PhotoShop and Macromedia Dreamweaver, will be the medium for materializing conceptual ideas. Prior experience with the software used in this course is not required. Studio Art supplies fee: \$50.
Department: Course: Title: Cross-listed: Instructor: Restrictions: Description:	Film and Media Studies FMS 262A Advanced Video & Sound Art SA262A,B,C/FMSB,C Devereaux, E. <b>Class Size:</b> 10 Permission of instructor required In this advanced production course, video and sound, will be considered as independent art forms as well as part of video installations. Students will produce experimental videos and sound pieces. They will also explore the use of these mediums when combined with two- and three-dimensional materials in real time. This course will cover both analogue and digital formats. Studio arts supplies fee: \$50.
Department: Course: Title: Cross-listed: Instructor: Restrictions: Description: Department: Course: Title: Cross-listed: Instructor: Restrictions: Description:	Film and Media Studies FMS 262B Advanced Video & Sound Art SA262A,B,C/FMS262A,C Devereaux, E. Class Size: 10 Permission of instructor required Please see FMS 262A for the description. Film and Media Studies FMS 262C Advanced Video & Sound Art SA262A,B,C/FMS262A,B Devereaux, E. Class Size: 10 Permission of instructor required Please see FMS 262A for the description.

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Restrictions: Description:	Film and Media Studies FMS 263A 3D Digital Time-Based Media SA 263A/B/C/FMS 263B/C Devereaux, E. Class Size: 10 FMS161/SA161 Permission of instructor required "3D Imaging" introduces the techniques that shape and the theories that inform 3D digital practices. By investigating the unique points of view possible within three-dimensional computer worlds, projects will explore space and time outside of our daily human scale. Techniques covered include 3D modeling, texturing, and animation. Advanced students may independently pursue 3D computer-based production or concentrate exclusively on creating and rigging cyborgs, mecha, or other characters. Final pieces may be created for installation, video, or multimedia applications. Studio arts supplies fee: \$50.
Department:	Film and Media Studies
Course:	FMS 263B
Title:	3D Digital Time-Based Media
Cross-listed:	SA 263A/B/C/FMS263A/C
Instructor:	Devereaux, E.
Restrictions:	Permission of instructor required
Description:	Please see FMS 263A for description.
Department:	Film and Media Studies
Course:	FMS 263C
Title:	3D Digital Time-Based Media
Cross-listed:	SA 263A/B/C/FMS 263A/B
Instructor:	Devereaux, E. <b>Class Size:</b> 10
Restrictions:	Permission of instructor required
Description:	Please see FMS 263A for the Description.
Department: Course: Title: Cross-listed: Instructor: Description:	<ul> <li>Film and Media Studies</li> <li>FMS 271</li> <li>Asian American Literature and Films</li> <li>ENG 250/ ENG 450</li> <li>Niu, G.</li> <li>In this course we will analyze Asian/Pacific Islander/American textsliterature, novels, poetry, plays, filmsby interrogating myths, foundational fictions, fantasies and the fantastical. The class begins with memoirs, both written and filmed so that we can query mythmaking. We will read works, such as Maxine Hong Kingston's, that revise and incorporate Asian myths, and occasionally contrast these with the West's popular imagination</li> </ul>

of the "Orient". Edward Said's usefully argues in Orientalism that Europe imagined the "Orient" since it "helped to define Europe (or the West) as its contrasting image, idea, personality, experience" (1978). Throughout the course, we will investigate constructions of gender, nationalities, ethnicities, sexualities, class and other forms of difference. Our literary works include those by Bangladeshi American, Chinese American, Pakistani American, Filipino American, Indian American, Korean American, Japanese American, Cambodian American, and Vietnamese American authors. We will examine a variety of literary genresmemoir, drama, fiction and poetry and we will also pay attention to Asian diasporic communities through cinematic texts. Students will find their prior knowledge of genre forms such as poetry, short story, longer fiction, drama and memoir very useful. During our poetry unit we will have a review of poetry terms and a workshop session of your own written poetry. (You will receive credit for writing the poems, and I will not grade the poems themselves.)

Department:	Film and Media Studies
Course:	FMS 355
Title:	Feminist Film Theory
Cross-listed:	FMS 555/ AH 355/555 /FR 287/487/ CLT 211
Instructor:	Willis, S. Class Size: 20
Description:	Please see AH 355 for the course description.
Department:	Film and Media Studies
Course:	FMS 390
Title:	Supervised Teaching
Department:	Film and Media Studies
Course:	FMS 391
Title:	Independent Study
Department:	Film and Media Studies
Course:	FMS 394
Title:	Internship
Department: Course: Title: Cross-listed: Instructor: Description:	<ul> <li>Film and Media Studies</li> <li>FMS 420</li> <li>Film as Object</li> <li>FMS 220</li> <li>Bernardi, J.</li> <li>Film Studies involves the critical analysis of the pictorial and narrative qualities of motion pictures, film theory, and film history, understanding film as both industry and creative art. This course unconventionally focuses on the tangible object at the</li> </ul>

origin of the onscreen image, and what we can learn about the social, cultural and historical value of motion pictures and national film cinemas through an understanding of Film as an organic element with a finite life cycle. Focus is on the photographical element, but includes a consideration of alternative capture media.

Department:	Film and Media Studies	
Course:	FMS 555	
Title:	Feminist Film Theory	
Cross-listed:	FMS 355/ AH 355/555/ FR 287/487/ CLT 2	211
Instructor:	Willis, S. Clas	s Size: 20
Description:	Please see AH 355 for the course descriptio	n.

#### Health & Society

Department:	Health & Society
Course:	HLS 217
Title:	Peer Health Advocacy II
Instructor:	Reynolds, N
<b>Prerequisites:</b>	HLS 216
Description:	Two-credit continuation of HLS 216, Peer Health Advocacy I

#### History

	Department: Course: Title: Instructor: Description:	History HIS 102 The West and the World since 1492 Lenoe, M. This course focuses on encounters between Europeans and people of other cultures from 1492 to the 1970s, on the development of the ideals of individual rights and popular sovereignty in Europe, and on the spread of the industrialized nation-state as an organizational model for societies throughout the world. Episodes and topics we may cover include the Spanish conquest of Mexico, English Civil Wars of the 17th century, the French Revolution and human rights, Japanese response to Western imperialism, and stalinism.
'nis	Department: Course: Title: Cross-listed: Instructor: Description:	History HIS 110 Introduction to African-American Studies AAS 110 Hudson, L. Drawing on the disciplines of History, Anthropology, and Psychology, HIS 110 will introduce students to the

Department: Course: Title: Cross-listed: Instructor: Description:	<ul> <li>interdisciplinary approach to the examination of the black experience in America.</li> <li>History</li> <li>HIS 116</li> <li>Introduction to History of Poland</li> <li>POL 175</li> <li>Rybkowski, R.</li> <li>The aim of this course is to present a general outline of the cultural, political, as well as social and economic history of Poland in the context of Europe. The complexity of a thousand years of Polish history will be presented in an accessible way. We will also explore the themes of European historical diversity and European identity in the context of Poland.</li> </ul>	Department: Course: Title: Instructor: Exams: Coursework: Description:	History HIS 148 Recent America, 1929-1989 Borus, D. Two hour examinations and a final examination. Active class participation; one short (2000 words) paper. This course is an examination of the development of American politics, society, and culture between the onset of the Great Depression and the end of the Cold War. It focuses on the creation, consolidation, and eclipse of the "New Deal order" - a liveral political economy centered on a constrained corporate capitalism, a modest welfare state, and a national security apparatus designed to wage the Cold War and extend American power abroad.
Department: Course: Title: Instructor: Description:	History HIS 145 Early America, 1600-1800 Borus, D. This course covers the course of European expansion in North America from the first peopling through the establishment of British domination to colonial revolution and the founding of the new nation in the eighteenth century. Among the topics under consideration is the pressures toward expansion, the economic system that resulted, the interaction among peoples in the continent, the rise of slavery and the slave trade, the divergence of American society from European, the trials and tribulations of colonial rule, the changing balance of political power both within American colonies and between the colonies and European powers, the new ideals that prompted revolution and the reconstruction of government. The course will conclude with the ways in which the new nation developed.	Department: Course: Title: Cross-listed: Instructor: Description:	History HIS 151 Imperial Russia RST 171 Lenoe, M. This course examines the history of the Russian Empire from the reign of Peter the Great (1692-1725) to the revolutions of 1917. Students will read primary sources in translation, academic articles, and a survey text. About one-half of class time will be devoted to discussion of the readings. Topics will include Peter's westernization of Russian elites and the costs thereof, the Pugachev rebellion of 1773-1775, the spread of Enlightenment ideals to Russia during the Napoleonic Wars, the abolition of serfdom, Sergei Witte;s industrialization drive, socialist movements in Russia, World War I, and the causes of the revolutions of 1917.
Department: Course: Title: Instructor: Description:	History HIS 146 Democratic America, 1800-1865 Jarvis, M. Between 1800 and 1865, the fledgling United States nearly tripled in size and increased six-fold in population. The race west to establish a nation stretching from "sea to shining sea" produced two Americas, one increasingly industrial and fueled by free labor and another overwhelmingly agricultural built upon a foundation of slavery. Paying particular attention to New York and Rochester, this course examines the changing face of the United States as it expands across a continent and advances inexorably toward the bloodiest war in our nation's history.	Department: Course: Title: Instructor: Description: Department: Course: Title: Instructor: Coursework:	<ul> <li>History</li> <li>HIS 168</li> <li>The Wars of Vietnam, 1917-1980</li> <li>Borus, D.</li> <li>This course examines the struggles to control Indochina among the French, Vietnamese, and Americans in the twentieth century, with special emphasis on the consequences for the social and political life of all three peoples.</li> <li>History</li> <li>HIS 172</li> <li>Indians and Other Americans</li> <li>Young, M.</li> <li>Three short analytical essays based on readings, lectures, and discussion.</li> </ul>

United Departmon parties, Course: er cent Title: a to Cross-lis ourse Instructor used Exams: as Coursew s, /ival. r L. Descript CY; a g and a D d khibit pr.
Departm om Course: ne Title: Cross-lis nce to Instructo lly, Exams: cial, Coursew s Descript o the
the Departmuggles Course: gy of Title: as Instructo orical Exams: a not Coursew eriod

of history, but also filtered through our contemporary ideological access to the histories we are revisiting.

partment:	History
urse:	HIS 184
le:	Modern Japan
oss-listed:	CLT 204; JPN 215
structor:	Hauser, W.
ams:	Midterm and final take-home exams
ursework:	All students will write a ten-page term paper on a subject related
	to modern Japanese history. Classes will be in lecture format with
	questions and discussions encouraged.
scription:	The course will focus on the modern history of Japan from 1850
	into the 1990s. The transformation of Japan from a traditional
	into a modern, industrial society with its costs, disruptions, and
	benefits will be emphasized. The emergence of Japan as a major
	power in East Asia, its expansion into Korea and Manchuria, and
	the growing conflict with the West, leading to the Pacific War,
	will also be covered as will Japanese postwar political, social, and
	economic change. READINGS: A modern Japan history text;
	G.L. Bernstein, HARUKO'S WORLD; N. Field, IN THE
	REALM OF A DYING EMPEROR; G. L. Bernstein, ed.
	RECREATING JAPANESE WOMEN; Arai Shinya,
	SHOSHAMAN; Nagatsuka Takashi, THE SOIL; Nakano
	Makiko, MAKIKO'S DIARY; among others.
	-

Course: Title: Cross-listed: Instructor:	History HIS 201 The Third World AAS 202 Mandala, E. Mid-term and final One 10-15 page essay. The concept of a Third World. The origins of colonialism and "underdevelopment" in the rise of European capitalism. The struggles of the colonial and postcolonial peoples for political
	independence, cultural autonomy, and economic development.
1	History
	HIS 207
Title:	Intellectual History of Science
Instructor:	Brown, T.
Exams:	Midterm and final exams and a 10-page research paper will be required.
Coursework:	Lectures and discussion will center on both primary source documents and secondary analyses.

Department: Course: Title: Cross-listed: Instructor:	A study of intellectual continuity and change in science focused on "revolutionary" episodes from the sixteenth to the twentieth century. After a close look at Thomas S. Kuhn's still-relevant THE STRUCTURE OF SCIENTIFIC REVOLUTIONS, the course will direct attention to several often-acknowledged revolutions: Copernicus' in sixteenth century astronomy; Newton's in seventeenth and eighteenth century physics; Darwin's in nineteenth century biology; quantum mechanics and Einsteinian relativity in the early twentieth century; and Freud's revolutionary discovery of the unconscious. Only an intelligent layman's knowledge of science is required. History HIS 208 Health, Medicine, and Social Reform PM 479 Brown, T.	Department: Course: Title: Cross-listed: Instructor: Description:	History HIS 222W Children, Families, and the State WST 227 Outram, D. This course treats the lives of children and their families in the 18th century against the background of important issues of the day, such as the growth of consumerism and the German cultural revival, as well as making contact with great Enlightenment thinkers who wrote extensively on education, such as John Locke and Jean-Jaques Rousseau. Topics studied include other Enlightenment educationists, toys and games, children's books and the training of affect, the importance of fairy tales, including their influence on psychoanalysis and its forerunners, child labour, and the lives of poor children.
Exams: Coursework:	Midterm, final, and 7-page book review essay.	Department:	History HIS 224W
Coursework: Description:	Approximately 100 pages of reading per week. Examination of the interconnected histories of medical science, public health, and political action promoting social and health reform, from the Scientific Revolution of the seventeenth century to the present. Attention will also be directed to improvements in health status, variations in the distribution of disease and risk, and changes in the social role of medicine and medical institutions. The material includes major primary sources: Frank, Engels,Virchow, Riis, Hamilton, Sigerist, Geiger. Secondary readings will include Rosen's A HISTORY OF PUBLIC HEALTH, and Jones' BAD BLOOD.	Course: Title: Instructor: Description:	HIS 224W German Idealism in Historical Context Steinberg, M. The age of classical German philosophyof Kant, Fichte, F. Schlegel, Novalis, Schelling, Halderlin, and Hegelcoincides with the French Revolution and the Revolutionary wars, and in both theory and politics there is an intense confrontation with the varied but related projects of the Enlightenment. The philosophical confrontation was scarcely less influential than the political struggles; idealism shaped Marxism, British Romantic poetry and criticism, American Transcendentalism, and contemporary Protestant theology, among others. The passages
Department: Course:	History HIS 209		between the Enlightenment and the present-day, however, are anything but straightforward, and what happens "between Kant
Title: Cross-listed:	Changing Concepts of Health and Illness PM 480		and Hegel" provides a close look at those passages as they were being negotiated. This course will focus on translations of the
Instructor:	Brown, T.		major philosophical texts of the time, with special attention to the
Exams: Coursework: Description:	Midterm and final; book-review essay. Approximately 100 pages of reading per week. The long-term intellectual history of essential ideas in the Western medical tradition: illness, health, and mind/body interaction. The time span ranges from Greek antiquity to the present day, with emphasis on the last 250 years and on the relationship between emotional and biological factors in the onset and experience of disease. Primary sources include Hippocrates,		work of Fichte; while little-read in English-speaking countries, Fichte is probably the pivotal figure in this process. Background in European history is preferred but no prior study of philosophy is required, as we will be reading the texts primarily from the point of view of the historian. The course will be taught through a combination of lectures providing social and political context and seminars grappling with the texts themselves. One significant research paper will be required.
	Galen, Maimonides, Descartes, Gaub, Charcot, Freud, Alexander, Cannon, Engel. Secondary sources include Porter's THE GREATEST BENEFIT TO MANKIND: A MEDICAL HISTORY OF HUMANITY.	Department: Course: Title:	History HIS 226 Hitler's Germany, 1914-1945

Instructor: Exams: Coursework: Description:	papers, and one revision. This course covers the pol Germany from 1914-1945 the end of the Second Wor effort to understand the ris National Socialist party, re particular attention to the of segments of the German pol Nazism, including workers especially German Jews. I designed to acquaint the st	Class Size: 50 r upper level writing, three five-page itical, social, and cultural history of , with a postscript on Germany since ed War. Central to the course is the e, triumph, and fall of Hitler and the egime, and ideology. We will pay liffering experiences of various opulation under democracy and then s, women, and ethnic minorities, Readings, lectures, and papers are udent with the course subject matter cal interpretation and reasoned	Department: Course: Title: Instructor: Description:	History HIS 238 History of British India Weaver, S. This course surveys the history of the Indian sub-continent from the coming of the British in the seventeenth century to its partition and independence in 1947. Course readings will emphasize the colonial experience and the results of colonial contact, especially as seen through changes in discourses, social structures, cultural norms, and collective identities. Readings will include essays, novels, and histories by both British and Indian writers. Class format will be a mix of lectures, discussions, and films.
Department: Course: Title: Instructor: Description:	argument. History HIS 231 British History to 1485 Kaeuper, R. This course is being expan England to include the rela Celtic regions Wales, Ire quarters of the course prov High Medieval civilization topically-focused units. An The final part allows stude especially on (printed) prin England or with a Celtic re will be provided. Readings Hollister/Stacey, Beowulf,	ded from its former concentration on ationship between England and the land, and Scotland. The first three- ride an understanding of the growth of a in England by means of several a essay on the themes will be written. inst to choose a research topic based mary sources, dealing either with egion. Plentiful assistance in this work	Department: Course: Title: Cross-listed: Instructor: Description:	History HIS 249 The Civil War AAS 249 Hudson, L. The course suggests that there existed two distinct views as to how the new nation would be structured. Once these views clashed and became sectional, the nation was thrown into a political, theological, and, ultimately, a military contest the demands of which led to the incorporation of structural changes that had the effect of resolving the very issues that had propelled the nation into war. As we identify and discuss the causes, conduct, and consequences of the Civil War, we will examine the changing ideas about nation, government, work, race, and gender, and ask: How different were Northern and Southern institutions and, to what extent were northern and southern Americans fundamentally different people?
Department: Course: Title: Instructor: Exams: Description:	An introduction to the mai twentieth centurywhat hi termed the "Age of Extren competing conceptions of culture, the course will tak Nietzsche, Freud, Bergson Wittgenstein, Sartre, de Be	ns, a take-home final, and a short paper n currents of European thought in the storian Eric Hobsbawm has rightly nes." Focusing on shifting and reality, truth, selfhood, so-ciety, and e up the work of such thinkers as , Einstein, We-ber, Heidegger, eauvoir, Arendt, Foucault, Derrida, and ation as well of literature, drama,	Department: Course: Title: Instructor: Exams: Coursework: Description:	History HIS 252 Cultural History of the United States, 1876-Present Rubin, J. Midterm and final Two short papers (3-5 pages); term paper (10-15 pages) This course explores the values, assumptions, anxieties, and beliefs of Americans since the late nineteenth century. We will consider both "high" and "popular" cultural artifacts, ranging from literature to the movies, and explore such themes as: the tension between individualism and the quest for community; shifting attitudes toward technology; the impact of gender, race, and class on cultural expression; the search for viable American artistic traditions; and competing visions of social change.

Department: Course: Title: Cross-listed: Instructor: Exams: Coursework: Description:	History HIS 254 History of the American South, 1896-1945 AAS 288 Hudson, L. Class tests (25%); Final exam (25%) Two essays 6-8 sides (25%); Term paper 8-10 sides (25%) Blue States! Red States! Why so many "Red States" in the South? Why such close attachment to family, religion, and community? Why such a penchant for a distinct music, food, and sports culture? Why has the region been for so long associated with social backwardnessviolence, racism, and political conservatism? These and other characteristics (real or imagined) have roots that extend back to Europe and Africa while many are the result of more recent events dating back only a few generations. This course will address these and other questions in the search of historical answers to the roots of southern peculiarities and the origins of those "Red States."	Department: Course: Title: Cross-listed: Instructor: Coursework: Description:	The course, therefore, offers an opportunity at some point to conduct a comparative analysis of contemporary historical issues in the two countries. History HIS 280W The Asian-American Experience ANT 251 Hauser, W. Class Size: 25 Two 5-page critical papers based on the assigned readings, one 10-15 page research paper on the experience of Asian immigrants and their descendants in America. The course will include readings and discussion of assigned materials and several weeks at the end of the term for research and writing of the long papers. Readings will include Gary Okihiro, MARGINS AND MAINSTREAMS; and Sucheng Chan, ASIAN AMERICANS; Eric Liu, THE ACCIDENTAL ASIAN; Julie Otsuka, WHEN THE EMPEROR WAS DIVINE; Caroline Hwang, IN FULL BLOOM; Helen Zia, ASIAN AMERICAN
Department: Course: Title: Cross-listed: Instructor:	History HIS 272 Africa's Sleeping Giant - Nigeria since the Islamic Revolution of 1804 AAS 260; ECO 255 Inikori, J.		DREAMS; and other readings. The class will study the history and cultural experiences of Asian immigrants and Asian- Americans in the United States and Hawaii in the 19th and 20th centuries. The long papers will focus on a particular ethnic group or an approach to the Asian American experience selected by each student in consultation with Prof. Hauser.
Coursework: Description:	Evaluation is based on class participation and quizzes, a term paper, a mid-term, and a final examination. The course is taught in the context of the global economy, its evolution from the 16th century and the location of different parts of the world within it. Nigeria, the most populous country in Africa, is blessed with vast mineral resources, which include petroleum, natural gas, coal, iron ore, and others. It has agricultural lands capable of producing a wide variety of tropical products and foodstuffs. It is common knowledge that the country's large population is made up of talented and highly resourceful individuals, who are quick to respond to economic incentives. Given all this, it is hard to understand why the country has one of the lowest per capita incomes in the world today, and why the country's economy currently occupies such a lowly position within the global economy today. The course focuses on the historical development of socio-economic and political structures over time to explain why the giant of Africa has continued to slumber. Some of the country's central problems produced by history, such as ethnic and religious contradictions, are similar in some way to those in the United States. The solutions that have been attempted by the governments of both countries, such as affirmative action, are also somewhat similar.	Department: Course: Title: Instructor: Restrictions: Coursework: Description:	History HIS 286W American Foreign Relations Gordon, L. Class Size: 15 Permission of instructor required Open only to Junior and Senior majors of the offering department Completion of weekly reading assignments of documents and/or a monograph; write two 7-10 page "position" papers, each dealing with a particular foreign policy issue of their choice; analyze a set of documents or government reports. This seminar will explore significant political, economic, and cultural themes in the United State's relationship with other countries from the eighteenth through the twentieth centuries, with the emphasis on the latter. Readings and discussions will focus on such topics/issues as: cultural interactions between Americans and citizens of other countries, relationship between idealism and self-interest in American foreign policy; the role of elites vs. popular opinion in determining foreign policy; and the onset and aftermath of the Spanish-American War, World Wars I and II, the Korean war, Vietnam, and the Cold War.

Department: Course:	History HIS 287	Description:	In seminar format, students will read and discuss books and articles on women's history in Japan China and Korea
Title:	History of International and Global Health		articles on women's history in Japan, China and Korea. Differences in their responses to the modern world and their role
Instructor:	Brown, T.		in the history of modern East Asian society will be emphasized.
Description:	This course examines the initiation, evolution, and transformation		The study of women in modern East Asian society will be used as
Description.	of international and global health activities and policies over the		a vehicle to improve student's critical reading, speaking, and
	course of several centuries. It concentrates on developments in		writing skills. READINGS: Zheng Wang, WOMEN IN THE
	the nineteenth, twentieth and early twenty-first centuries, but it		CHINESE ENLIGHTENMENT; Kim, O. & Kang, WORDS OF
	also considers earlier events such as pandemic plague, the		FAREWELL; Kim & Choi, DANGEROUS WOMEN; Elisabeth
	exchange of diseases between the Old World and the New, and		Bumiller, THE SECRETS OF MARIKO; Xie Bingying, A
	the role of health concerns in early European and American		WOMAN SOLDIER'S OWN STORY; Xueping Zhong, Wang
	colonialism and imperialism. The major focus, however, is the		Zheng, Bai Di, eds., SOME OF US: CHINESE WOMEN
	evolution of cooperative efforts in international health under		GROWING UP IN THE MAO ERA; Laurel Kendall, ed.,
	governmental, non-governmental, and trans-governmental		UNDER CONSTRUCTION: GENDERINGIN KOREA;
	auspices. Particular attention is given to the role of international		Xinran, THE GOOD WOMEN OF CHINA.
	conferences and conventions, the work of the International Red		
	Cross and the Rockefeller Foundations International Health	Department:	History
	Division, and the creation and functioning of the Pan American	Course:	HIS 301W
	Health Organization, the Office International dHygiene Publique,	Title:	History Seminar - Stalinism
	the League of Nations Health Organization, and the World Health	Instructor:	Lenoe, M.
	Organization. For the later twentieth century, attention will be	<b>Restrictions:</b>	Permission of instructor required
	directed to the World Bank, the Gates Foundation, UNAIDS, and	<b>Description:</b>	We will devote the first six weeks of this advanced research
	other major current players in global health.		seminar to intensive readings in the history of Stalinism in the
			Soviet Union. Class will be based on student discussion of major
Department:	History		historiographical debates about Stalinism. During the second six
Course:	HIS 289		weeks of the semester students will prepare a major research
Title: Cross-listed:	History of European Exploration ANT 289		paper, based either on primary sources from the Stalinist period
Instructor:	Outram, D.		(many have been translated into English) or on the historiographical literature.
Description:	Exploration is examined as an integral part of European		historiographical merature.
Description.	expansion into the rest of the world and of the opening of the	Department:	History
	U.S. in the eighteenth and nineteenth centuries. Three themes	Course:	HIS 301W
	organise the course: Pacific exploration by James Cook; the	Title:	History Seminar - John Dos Passo's USA
	opening of the American West by Fremont, Louis and Clark, and	Instructor:	Westbrook, R.
	others; and the exploration of the Arctic by men working for	<b>Restrictions:</b>	Permission of instructor required
	Hudson Bay Company.	<b>Description:</b>	This course considers the career of writer John Dos Passos,
		ľ	seeking to discover the ways in which his work can illuminate the
<b>Department:</b>	History		history of the society, politics, and culture of the United States
Course:	HIS 296W		during the years between World War I and World War II (1917-
Title:	Women in East Asia		1941). And, as well, to discover how placing Twain's work in the
Cross-listed:	ANT 252; WST 251		context of this history can help us better understand his life and
Instructor:	Hauser, W.		writing, particularly his great trilogy U.S.A. (1930-36). To this
Coursework:	Students will write an essay on Japan and China and a		end, we will also read some of the work of a few of Dos Passos's
	comparative essay at the end of the term, including Korea. Each		contemporaries: Randolph Bourne, Ernest Hemingway, Edmund
	essay will be 5-8 pages in length, and must be rewritten and		Wilson, George Orwell, E.E. Cummings, and Dorothy Parker.
	resubmitted after the initial grading.		Finally, as a History Seminar, the course aims as well to

introduce students to some of the tradecraft of research in American cultural history.

Department: Course: Title: Cross-listed: Instructor: Description:	History HIS 302W The Power of Print HIS 402 Rubin, J. <b>Class Size:</b> 15 This course will examine the history of books, readers, and literacy in the United States from the colonial period to the present. It will explore how the printed word shaped both public events (e.g. the Civil War) and private experience (e.g. relationships within the family). The course will consider such topics as: the relationships between gender and reading; the connections between reading and citizenship; the impact of technological change on the book; the social uses of various kinds of reading; and the nature and development of literacy.	Depart Course Title: Cross- Instrue Restric Descrij Depart Course
Department:	History	Course Title:
Course:	HIS 306W	Cross-
Title:	European Cultural History	Instruc
Cross-listed:	HIS 406	Descri
Instructor:	Pedersen, J.	
Coursework:	In addition to weekly readings and responses, each student in this seminar will prepare a research paper and an oral report.	
Description:	Novels, plays, music, dance, poetry, painting How can we use individual artistic creations as a way of learning about the politics, economics, social structures, and psychological attitudes of the past? This course will answer that question by focusing on a series of modern European examples from the French Revolution through the Second World War.	
Department:	History	Depart
Course:	HIS 314W	Course
Title:	International Human Rights	Title:
<b>Cross-listed:</b>	HIS 414; WST 296/496	Cross-
Instructor:	Pedersen, J.	Instru
Description:	What does it mean to be human? What political, economic, religious, social, or sexual rights might be part of different	Descri
	people's working definitions? This course will look at both a) the historical development of conflicting theories of human rights and b) more contemporary debates about their ideal extent, their exercise, and their enforcement. Special topics will include debates over the meaning of the American and French Revolutions, the fight to design an International Declaration of Human Rights in the aftermath of World War II, the history of organizations such as Amnesty International, and the controversy	

around UN events such as the 1995 World Conference on Women in Beijing, the 2002 World Summit on Sustainable Development in Rio de Janeiro, and the 2000 and 2005 Millennium Summits in New York City.

partment: urse: cle: oss-listed: structor: strictions: scription:	History HIS 334W U.S. Colloquium II HIS 434 Rubin, J. Permission of instructor required for undergraduates This colloquium explores the major interpretations of American history from Reconstruction to the late twentieth century. UNDERGRADUATES MAY REGISTER FOR THIS COURSE BY INVITATION ONLY.
partment: urse: de: oss-listed: structor: scription:	History HIS 344W When New York was teh Wild West HIS 444 Jarvis, M. This course explores New Yorks history from Seneca settlement to Seneca Falls, using recent scholarship to consider Iroquois, Dutch, English, and American periods of history. Specific topics include New York City and its hinterland, the shift from Dutch to English rule, Slavery in New York City, British-occupied New York and the American Revolution in New York State, 18th and 19th century religious movements, the dynamics of frontier settlement, and the Erie Canal. Students will devise and write an original primary research paper on a particular aspect or period of New York history.
partment: purse: cle: oss-listed: structor: scription:	History HIS 345W Just Wars HIS 445 Slaughter, T. The seminar considers the concept of just war and the application of just war theory to specific historical cases. Together we will discuss several modelsArendt, Augustine, Clauswitz, and Waltzerat the beginning of the semester, and at least one scholars application of theory to a specific case. Students will identify the specific war on which they intend to focus their research, primary and secondary sources they will consult, and the questions they will ask. At different stages we will meet to discuss shared readings, one-page research proposals, bibliographies, thesis statements, first paragraphs, and first drafts of research papers.

Grades will be based on class attendance and participation, timely submission of written assignments, and the quality of the work completed. All papers must be turned in for a grade by the last day of class.

Department: Course: Title: Cross-listed: Instructor: Description:	History HIS 347W The Political Economy of Food in Africa AAS 335; HIS 447 Mandala, E. A three-part exploration of the idea that in the world of African peasants food does not have an independent life apart from the social relations of those who eat it. Part I traces the social biography of food as it moves from the field to the table; Part II seeks to understand whether and to what extent the daily and seasonal processes of Part I acquired new meanings and long- term historical trajectories as a result of Africas engagement with the global economy, and Parts III recasts the issues raised in Parts I and II into a debate between peasant intellectuals and professional historians.	Department: Course: Title: Instructor: Restrictions: Description:	<ul> <li>Rochester and its environs as a site of radical thought and activism. In our common reading and discussions, we will center our attention on the work of five local dissidentsFrederick Douglass, Susan B. Anthony, Walter Rauschenbusch, Howard Coles, and Christopher Laschtrying to weave to-gether the story of their careers with that of the city in which they made their home at one time or another. These figures, all of whom have papers in local repositories, will also be the subject of individual student research papers.</li> <li>History</li> <li>HIS 388W</li> <li>Modern China in Film</li> <li>Li, G.</li> <li>See course description for specific prerequisties required There is no singular History due to representation and interpretation. This course regards film footage as a unique way</li> </ul>
Department: Course: Title: Cross-listed: Instructor: Coursework: Description:	History HIS 357W Evolution of the Current World Economic Order from 1500 AAS 371/W; ECO 371/W; HIS 457 Inikori, J. <b>Class Size:</b> 15 There are no examinations. Evaluation is by class participation and weekly literature summaries, one term paper, and one book review. The course traces the historical origins of the integration and biogenetical structure of the summary clobel accommunity.		to reproduce history of modern China. Students will watch the first-rate Chinese films produced by the most distinguished Chinese directors, in which the major historical events in modern China provided a narrative context. We will examine the multiple, sometime controversial and even contradictory representations of major historical events in modern China, including the Opium War, the Arrow War, the New Cultural Movement, Nanchang Uprising, Nanjing Massacre, the Second Sino-Japanese War, the Great Leap Forward, the Great
	hierarchical structure of the current global economy. It examines specifically the historical forces which produced the unequal international division of labor between industrial and non- industrial nations, starting with the British Industrial Revolution which occurred within the Atlantic world economy. The rise and fall of the USSR and the command economies of Eastern Europe are examined in the context of efforts by underdeveloped countries to improve their performance and location within the global economy. The more recent successes of some Asian countries and the continuing external debt problems of Latin American and African countries are also examined with the conceptual framework of international political economy to predict the probable future of all poor peoples both in the poor and in the rich countries.	Department: Course: Title: Instructor: Restrictions: Description:	<ul> <li>Proletarian Cultural Revolution, and the Tiananmen Incident.</li> <li>History</li> <li>HIS 396W</li> <li>Film and History Tutorial - American Politics</li> <li>Westbrook, R.</li> <li>Permission of instructor required</li> <li>This course involves intensive study of a topic in a special format. Each class will consist of two students and a professor who will meet once a week for an hour. For every class meeting, one of the students will present a short analytical paper on assigned reading while the other student acts as a respondent; the role of the instructor will be to guide and comment but not to lecture. The tutorial considers both the uses of movies as documents of the American past and as vehicles for historical</li> </ul>
Department: Course:	History HIS 374W		understanding. That is, we will assess the insights that movies can offer into the moment of their making as well as the promise and

Title:

**Cross-listed:** 

Instructor:

**Description:** 

Rochester and Its Radicals

This course examines the remarkable history of the city of

Rochester and its environs as a site of radical thought and

**HIS 474** 

Westbrook, R.

pitfalls of film narrative as a way of describing, interpreting, and explaining history. The Spring 2008 tutorial will focus on movies about American politics. Films include YOUNG MR. LINCOLN, MR. SMITH GOES TO WASHINGTON, ALL THE KING'S MEN, THE LAST HURRAH, REDS, BULWORTH, and WAG THE DOG.

**Department:** History **Course:** HIS 501 Introduction to Global History Title: Inikori, J. Instructor: **Description:** Globalization was popularized by the media in the 1990s as a snapshot description of certain critical elements that characterize the observed reality of our modern world, integration and hierarchy, together with the repercussions (good and ill). The attempt by historians and other scholars to trace the long-run historical processes that gave rise to the current socioeconomic phenomena called globalization has given birth to a new field in historical scholarship called global history, with much conceptual and empirical debate. This course will expose our graduate students to this literature in a manner that will help them acquire the conceptual skill to research and write local, regional, and national history with a global perspective.

#### **Judaic Studies**

	Course:	LIN 105	
Judaic Studies	Title:	Language in Advertising	
JST 102	Cross-listed:	FMS 257F	
Elementary Hebrew II	Instructor:	Carlson, G	Class Size: 50
HEB 102	Exams:	2 Exams plus 4 quizzes	
Fix, T.	Coursework:	Students will be asked to keep a jour	nal and find examples of
Please see HEB 102 for the course description.		advertisements that illustrate the topi	cs being considered.
	Description:	The course examines the use advertise	sers make of language in
Judaic Studies		selling their products and how it affe	cts our perceptions of the
JST 204		product and ourselves. The emphasi	s in the course is on learning
Hebrew through Conversation		about the structure of language and h	ow we can use it as a guide
HEB 204		to observing and understanding the e	ffectiveness of commercial
Fix, T.		messages. Part of Clusters S1LIN00	6, S1LIN002
Two short essays, one final paper			
Please see HEB 204 for the course description.	Department:	Linguistics	
	Course:	LIN 110	
Judaic Studies	Title:	Introduction to Linguistic Analysis	
JST 248	<b>Cross-listed:</b>	ANT 110C	
Politics of Identity: Russians, Poles, Jews, and Communists	Instructor:	Paauw, S Section #1 (CRN#58396	) Fall'08 and Gunlogson, C
RUS 248/HIS 241/RST 248		(CRN#55936) Spr'09	Class Size: 30
Parthe, K.			
	JST 102 Elementary Hebrew II HEB 102 Fix, T. Please see HEB 102 for the course description. Judaic Studies JST 204 Hebrew through Conversation HEB 204 Fix, T. Two short essays, one final paper Please see HEB 204 for the course description. Judaic Studies JST 248 Politics of Identity: Russians, Poles, Jews, and Communists RUS 248/HIS 241/RST 248	Judaic StudiesTitle:JST 102Cross-listed:Elementary Hebrew IIInstructor:HEB 102Exams:Fix, T.Coursework:Please see HEB 102 for the course description.Description:Judaic StudiesJST 204Hebrew through ConversationHEB 204Fix, T.Two short essays, one final paperPlease see HEB 204 for the course description.Department: Course:Judaic StudiesJST 204Hebrew through ConversationTitle:HEB 204Title:Fix, T.Department: Course:Judaic StudiesTitle:Judaic StudiesTitle:Judaic StudiesTitle:JUdaic StudiesTitle:JUdaic StudiesTitle:JST 248Cross-listed:Politics of Identity: Russians, Poles, Jews, and Communists RUS 248/HIS 241/RST 248Instructor:	Judaic StudiesTitle:Language in AdvertisingJST 102Cross-listed:FMS 257FElementary Hebrew IIInstructor:Carlson, GHEB 102Exams:2 Exams plus 4 quizzesFix, T.Coursework:Students will be asked to keep a jour advertisements that illustrate the topPlease see HEB 102 for the course description.Description:The course examines the use advertis selling their products and how it affe product and ourselves. The emphasi about the structure of language and h to observing and understanding the e messages. Part of Clusters S1LIN00Judaic StudiesDepartment:LinguisticsJST 204LinguisticsLinguisticsHebrew through ConversationDepartment:LinguisticsHEB 204Exams:Course:LinguisticsTwo short essays, one final paperCourse:Lin 110Judaic StudiesTitle:Introduction to Linguistic AnalysisJST 248Coos-listed:ANT 110CPolitics of Identity: Russians, Poles, Jews, and CommunistsInstructor:Paaw, S Section #1 (CRN#58396 (CRN#55936) Spr09

Exams:	
<b>Description:</b>	

Two short essays, one final paper Please see RUS 248 for a course description.

## Linguistics

Department: Course: Title: Instructor: Prerequisites: Coursework: Description:	Linguistics LIN 102 Language and Social Identity Paauw, S None Course work will consist of several ho some longer written assignments, inclu This course examines the relationship social diversity in the general America aim is to shed light on how individuals distinguish themselves on the basis of and their sharing (or lack of it) of a co evaluation and interpretation. In partice relationship between language on the parameters as social status, ethnicity, the Finally, it will consider the role of land creation of social stereotypes and their advantage or disadvantage. Part of Cl S1LIN002	uding a final project. s between language and an speech community. Its s and social groups their choice of language mmon norm of social cular, it will investigate the one hand, and such social race, gender and so on. guage differences in the r implications for social
Department: Course:	Linguistics LIN 105	
Title:	Line 105 Language in Advertising	
Cross-listed:	FMS 257F	
Instructor:	Carlson, G	Class Size: 50
Exams:	2 Exams plus 4 quizzes	
Coursework:	Students will be asked to keep a journ	-
Description:	advertisements that illustrate the topic The course examines the use advertise selling their products and how it affect product and ourselves. The emphasis about the structure of language and ho to observing and understanding the eff messages. Part of Clusters S1LIN006	ers make of language in ts our perceptions of the in the course is on learning ow we can use it as a guide fectiveness of commercial
Department: Course:	Linguistics LIN 110	

Description:	This course investigates the structure of human language, covering the basic techniques and concepts in the subfields of contemporary linguistic analysis. The course emphasizes work in primary material and data analysis, and focuses on developing skills in data collection and defining relevant questions for the purpose of seeking evidence that will bear on resolving theoretical and empirical questions in analysis of language. Part of Clusters S1LIN004, S1LIN002, S1LIN007, S1LIN001, S1LIN005
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Linguistics LIN 220 Introduction to Grammatical Systems LIN 420 Runner, J Class Size: 30 LIN 110 This introductory course examines the grammatical structure of words and sentences from the standpoint of modern linguistic theory. The course develops the basic techniques and concepts of morphological and syntactic analysis placing particular emphasis on the ways in which semantic, morphological and lexical information interacts with the syntax. No syntax background is assumed. This course is intended for majors and non-majors alike. Part of Clusters S1LIN004, S1LIN002, S1LIN007
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Linguistics LIN 227 Topics in Phonetics & Phonology LIN 427 Lehnert-LeHouillier, Heike, <b>Class Size:</b> 20 LIN 110, 210 The course is a laboratory course intended to provide participants with an overview of research in laboratory phonology. Issues vary from term to term but cover areas in segmental, metrical and intonational phonology and the phonology/phonetics interface. Part of Cluster S1LIN001
Department: Course: Title: Instructor: Prerequisites: Restrictions: Description:	Linguistics LIN 389 Senior Seminar: Linguistic Field Methods Paauw, S Class Size: 15 Senior year, linguistics major See course description for specific prerequisites required A seminar course for senior linguistic majors in their last semester of coursework. This seminar is a linguistics field methods course. We will work with a native speaker to elicit data and provide a description of the grammar of that speaker's

language based on our data. This course is designed for senior Linguistics majors; for interested non-Linguistics majors or those who are not in their last semester of Linguistics coursework, please contact the instructor.

Department:	Linguistics
Course:	LIN 420
Title:	Introduction to Grammatical Systems
Cross-listed:	LIN 220
Instructor:	Runner, J.
Prerequisites:	LIN 110 or LIN 201
Description:	Refer to LIN 220 for course description.
Department: Course: Title: Cross-listed: Instructor: Description:	Linguistics LIN 427 Topics in Phonetics & Phonology LIN 227 Lehnert-LeHouillier, Heike Class Size: 30 This course picks up where LIN 410 leaves off, examining research issues in phonetics and phonology, topics may include speech production and perception, tone and intonation, or rhythm and meter within a broadly defined laboratory phonology approach. This goal of this course is to familiarize students with current issues on a given topic through readings and discussion, and to design and run an experiment or research project on the semester's topic.
Department:	Linguistics
Course:	LIN 430
Title:	Signed Language Structure
Cross-listed:	BCS 264/564(P); LIN 430; ASL 200
Instructor:	Supalla T.
Coursework:	See BCS 264 for description
Description:	See BCS 264 for description
Department: Course: Title: Instructor: Prerequisites: Description:	Linguistics LIN 535 Formal Pragmatics Gunlogson, C. LIN 465 or equivalent (semantics background preferred) Pragmatics, under one conception, is the study of systematic relationships between what linguistic expressions mean and what people mean when they utter such expressions in a particular place, at a particular time, to a particular audience. This course will provide an overview of selected topics in the field, including indexicality, Grice and implicature, speech acts and sentence type, information structure, presupposition, and experimental

pragmatics. The emphasis on formal pragmatics means that wherever possible we will concentrate on theoretical approaches that attempt to model pragmatic effects in a rigorous way, using methods adopted from formal semantics and neighboring fields.

## Mathematics

Department: Course: Title: Instructor: Exams: Coursework: Description:	Mathematics MTH 130 Excursions in Mathematics Lubkin Midterm and final Homework The nature of mathematics and its application. Emphasis on concepts and understanding rather than acquisition of techniques. Intended for concentrators in the humanities and social sciences.	
Department: Course: Title: Instructor: Exams: Coursework: Description:	<ul> <li>Mathematics</li> <li>MTH 141</li> <li>Calculus I</li> <li>Bailey, S.</li> <li>Homework and quizzes</li> <li>Analysis of the elementary real functions: algebraic,</li> <li>trigonometric, exponentials and their inverses and composites.</li> <li>Their graphs, derivatives, and integrals. Mean value theorem,</li> <li>maxima and minima, curve plotting. The fundamental theorem of</li> <li>calculus, with geometric and physical applications. MTH 141,</li> <li>142, and 143 is a three semester sequence that covers, at a slower</li> <li>pace, exactly the same material as the two semester sequence</li> <li>MTH 161 and 162.</li> </ul>	
Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Mathematics MTH 141A Calculus IA Ortiz-Navarro, J. MTH 140A. This is a continuation of MTH 140A. Two or three hourly exams and weekly quizzes. This course is a continuation of MTH 140A. It combines and integrates the learning of calculus together with precalculus mathematics. MTH 141A (together with its prerequisite MTH 140A) covers all the material in MTH 141 together with a thorough presentation of the standard 'precalculus' material.	
Department: Course: Title:	Mathematics MTH 142 Calculus II	

Instructor: Prerequisites: Exams: Coursework: Description:	Pearson, P.,Mavinga, N., MTH 141 Hourly exams and a final exam Homework and quizzes This course will consist of applications of the finite integrals, techniques of integration, calculus of the trancendental functions, improper integrals and the use of l'Hopital's rule.
Department: Course: Title: Instructor: Prerequisites: Exams: Coursework: Description:	Mathematics MTH 143 Calculus III Unal, I. MTH 141, MTH 142 Hourly exams and a final exam Homework and quizzes Textbook is a standard calculus text. This is the third semester of a three-semester calculus sequence. Topics include improper integrals, l'Hopital's rules, infinite sequences and series, Taylor's series, three-dimensional geometry and vector algebra, curves in space, partial derivatives. Weekly lists of exercises form the syllabus for the weekly quizzes.
Department: Course: Title: Instructor: Description:	Mathematics MTH 150 Discrete Mathematics Ledoan, A., Logic, functions, algorithms, mathematical reasoning, mathematical induction, recurrence relations, techniques of counting, equivalence relations, graphs, trees, as well as specific questions given by the "Towers of Hanoi", and Euler's "7 bridges of Konigsberg problem". Required for Computer Science majors.
Department: Course: Title: Instructor: Exams: Coursework: Description:	Mathematics MTH 161 Calculus IA Pearson, P., , Two or three hourly exams and a final exam Lectures with assignments or problems to be discussed in weekly recitation sections. Quizzes given in recitations. This is an introductory calculus course, intended for students whose interests lie in the physical sciences and engineering. The course requires a thorough command of high school algebra and some knowledge of trigonometry. Topics include: analysis of the elementary real functions: algebraic, trigonometric, exponentials and their inverses and composites; their graphs, derivatives and integrals; Limits, l'Hopital's rules, Mean value theorem, maxima

and minima, curve plotting. The fundamental theorem of calculus, with geometric and physical applications.

Department: Course: Title: Instructor: Prerequisites: Exams: Coursework: Description:	Mathematics MTH 162 Calculus IIA Lavine, R.,Ledoan, A. MTH 161 Hourly exams, final exam Homework and quizzes This course is a continuation of MTH 161. It covers techniques of integration, improper integrals, applications of integration, parametric and polar equations, infinite series, Taylor's series, vectors in two and three dimensions, lines and planes, vector- valued functions, velocity and acceleration, arc length, curvature.
Department:	Mathematics
Course:	MTH 162Q
Title:	Quest Calculus IIA
Instructor:	Bailey, S.
<b>Prerequisites:</b>	Quest Calculus IA
Exams:	Two or three exams and a final
Description:	This is the second semester of the Quest version of MTH 161-162 which places emphasis on understanding concepts as well as on learning techniques. Homework includes more challenging and occasionally more theoretical problems. Students contemplating majoring in mathematics as well as others desiring a strong foundation in calculus are encouraged to take this course or the honors calculus course. The Quest versions of MTH 161-2 are considered to be year-long courses; both semesters will be taught by the same professor and students are strongly encouraged to stay with the same professor for the entire year. The course introduces the techniques of the differential and integral calculus of functions; reinforces algebraic manipulation and trig techniques learned in high school; provides tools for use in other disciplines; uses proofs to help make the techniques a coherent whole rather than a set of isolated tricks; rigorous proofs. Topics covered: analysis of the elementary real functions: algebraic, trigonometric, exponentials and their inverse and composites. Their graphs, derivatives, and integrals. Mean value theorem, maxima and minima, curve plotting. The fundamental theorem of calculus, with geometric and physical applications.
Department:	Mathematics
Course:	MTH 163

Title: Instructor: Ordinary Differential Equations Greenleaf, A.,

Prerequisites: Exams: Coursework: Description:	MTH 143, MTH 162 or MTH 172. Two or three hourly exams and a final Homework and weekly quizzes This course concentrates on the foundations of the subject, emphasizing those techniques which are important in physics and engineering. The emphasis in this course, as in the other calculus courses, is on learning techniques for solving, or at least understanding, certain equations (which occur frequently in physics and engineering), rather than on the theoretical aspects of the subject. Topics covered: First order differential equations, linear equations, and systems with constant coefficients, solutions in series, phase plane analysis and stability.
Department: Course: Title: Instructor: Prerequisites: Exams: Coursework: Description:	Mathematics MTH 164 Multidimensional Calculus Pakianathan, J. MTH 143, MTH 162, or MTH 172. Two or three hourly exams and a final exam Lectures, homework and quizzes This course studies the calculus in more than one dimension. Topics include partial derivatives, multiple integrals, and the major theorems of Green, Gauss, and Stokes. NOTE: Either MTH 164 or MTH 163 can be taken after MTH 162 or MTH 143. The usual procedure would be to take MTH 164 followed by MTH 163. USUALLY MTH 164 (Multidimensional Calculus) is taken first since its subject matter is more closely related to MTH 162. However, some Engineering majors require MTH 163 (Differential Equations) to be completed by the end of the fall semester of the sophomore year.
Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Mathematics MTH 165 Linear Alegbra with Differential Equations Gage, M.,Arikan, M. MTH 143, 162, or MTH 172Q. However, MTH 164 is not a prerequisite for MTH 165. Two or three hourly exams and a final An introduction to the basic concepts of linear algebra: matrices, determinants, vector spaces and linear transformations, as well as to ordinary differential equations with an emphasis on linear differential equations, second order equations with constant coefficients and systems of differential equations. Applications to physical, engineering, and life sciences. This course differs from MTH163 in that it has more material on linear algebra (including a discussion of eigenvalues), and the only differential equations covered are linear ones with constant coefficients, along with

systems thereof. For many students, taking MTH165 will eliminate the need to take MTH235 (linear algebra). Topics covered: Elementary methods, linear equations, and systems with constant coefficients, solutions in series, special functions, phase plane analysis and stability, Laplace transform, extremal problems. **Department:** Mathematics **Course:** MTH 1720 Title: Honors Calculus II Cohen, F., Rogers, N. Instructor: **Prerequisites:** MTH 171 or permission of the instructor **Description:** This is the second semester of the honors calculus sequence, covering the material from MTH 161, MTH 162, MTH 163, and MTH 164 in greater depth from the standpoint of both theory and application. **Department:** Mathematics Course: MTH 1740 Title: Honors Calculus IV **Instructor:** Tucker, T. **Prerequisites:** MTH 162, MTH 172, MTH 173 This is the last semester of the honors sequence of MTH 171, **Description:** MTH 172.MTH 173.MTH 174 **Department:** Mathematics **Course: MTH 200** Title: Transition to Advanced Mathematics Haessig, D. Instructor: Introduces some of the basic techniques and methods of proof **Description:** used in mathematics and computer science. Methods of logical reasoning, mathematical induction, relations, functions, and more. The course also contains some applications of these techniques. **Department:** Mathematics Course: **MTH 202** Title: Intro. to Stochastic Processes Vermesi, B. Instructor: **Prerequisites:** MTH 201/STT 201 or equivalent Three hours of lectures, and a weekly problem set **Coursework:** This course covers the Poisson process, discrete-time random **Description:** walks and Markov chains, and renewal theory. Special cases such as birth and death processes, and queuing processes, are also discussed. Time permitting, continuous-time Markov chains will be introduced. It is taken mainly by statistics and mathematics

majors, and together with MTH 201/STT 201, provides a solid mathematical foundation in probability and stochastic processes.

Department: Course: Title: Instructor: Prerequisites: Description:	Mathematics MTH 203 Intro. to Mathematical Statistics Rao, S.R.S. MTH 201. Same as STT 203. Principles of statistical decision theory, point and interval estimation, tests of hypotheses, multivariate normal distribution, linear hypotheses, selected topics. (Same as STT 203.)
Department: Course: Title: Instructor: Prerequisites: Description:	Mathematics MTH 235 Linear Algebra Haessig, D. MTH 165 In this course we develop matrix methods for determining the solvability of and finding solutions to systems of linear equations in several variables. We study linear transformations on finite- dimensional vector spaces over R (real numbers) and C (complex numbers), which includes a development of the concepts of an inner product, orthogonality, a basis of a vector space, and eigenspaces of linear transformations.
Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Mathematics MTH 236 Introduction to Algebra I Rogers, N. MTH 235 irregular quizzes, 2 hourly exams and a final The course will treat introductory group theory topics. Finite dimensional vector spaces over R and C axiomatically and with coordinate calculations. Forms, linear transformation, matrices, eigenspaces.
Department: Course: Title: Instructor: Exams: Description:	Mathematics MTH 236H Introduction to Algebra I (Honors) Jochnowitz, N. irregular quizzes, 2 hourly exams and a final An honors version of MTH 236.
Department: Course: Title:	Mathematics MTH 240 Introduction to Topology

Description:	Introduction to topology. Review of set theory. Metric spaces and topological spaces. Functions and continuous functions. The		mapping, with some applications. This course is independent of MTH 281.
	concepts of convergence, completeness, connectedness, and		
	compactness. Applications to surfaces.	Department:	Mathematics
		Course:	MTH 285
Department:	Mathematics	Title:	Methods of Applied Mathematics
Course:	MTH 240H	Instructor:	Mueller, C.
Title:	Introduction to Topology (Honors).	<b>Prerequisites:</b>	MTH 235
Instructor:	Harper, J.	Description:	This is a new course which aims to introduce some of the
<b>Description:</b>	An honors version of MTH 240.	I	methods of applied mathematics: minimum principles;
1			eigenvalues and dynamical systems; constraints and lagrange
Department:	Mathematics		multipliers; applications to electrical networks; differential
Course:	MTH 248		equations of equilibrium; calculus of variations; stability and
Title:	Theory of Graphs		chaos; nonlinear conservation laws.
Instructor:	Harper, J.		chaos, nonlinear conservation favos.
Prerequisites:	MTH 235 recommended	Department:	Mathematics
Description:	Paths, circuits, trees. Bipartite graphs, matching problems.	Course:	MTH 287
Description.	Unicursal graphs, Hamiltonian circuits, factors. Independent	Title:	Math Methods in Optics and Physics
	paths and sets. Matrix representations. Planar graphs. Coloring		This course introduces techniques used in mathematical study of
		<b>Description:</b>	optical phenomena. Emphasis is placed on gaining insight and
	problems.		
D	Mathematica		experience in the use of these powerful and elegant tools for
Department:	Mathematics		describing, solving and resolving optical systems and schema.
Course:	MTH 256		Prerequisites: MTH 164 and MTH 281.
Title:	Differential Geometry II		
Instructor:	Unal, I.	Department:	Mathematics
Prerequisites:	MTH 255	Course:	MTH 290
Description:	Riemannian geometry.	Title:	Mathematical Biology
		Cross-listed:	MTH 490
Department:	Mathematics	Instructor:	Vermesi, B. Class Size: 30
Course:	MTH 266	Prerequisites:	MTH 162 or equivalent; some familiarity with probability
Title:	Topics in Real Analysis	Description:	This course focuses on concepts and real-world applications (e.g.,
Instructor:	Geba, D.		in engineering of products and in business where optimization is
<b>Description:</b>	This is the second semester of Math 265, which prepares students		equated to design synthesis and decision- making, respectively)
	for graduate courses in analysis. It may also be very useful for		where variability, in fact, is all-important. Thus the course
	those planning graduate work in statistics, operations research,		coherently ties together mathematical modeling, design of
	mathematical economics, and business. The course deals with		experiments, probability & statistics, approximation methods,
	the rigorous concepts that lie at the foundation of calculus, which		analysis, and optimization, and addresses deterministic and
	form an essential part of mathematical reasoning.		probabilistic treatments. In doing so, all is put in context and
			much of applied mathematics is simplified, enabling
Department:	Mathematics		enlightenment and easy retention of material for future
Course:	MTH 282		applications. New advanced concepts and capabilities covered (i)
Title:	Intro. to Complex Variables w/ Application		are essential for all who specialize in probability and
Cross-listed:	ME 202		optimization, and (ii) will empower students with a sense of
Instructor:	Hladky, R.		doability in attacking any type of simple-to-complex problem as
<b>Prerequisites:</b>	MTH 164/MTH 174		well as a sense of liberation.
Description:	Complex differentiation and integration, analytic functions,		
r	singularities, residues, poles, series expansions, conformal	Department:	Mathematics

Course: Title: Instructor: Prerequisites: Description:	MTH 302W History of Mathematics II Lavine, R. MTH 162 or equivalent The style and development of European mathematics from roughly 1650 to roughly 1950. The development of calculus and analysis, algebra, probability, geometry (including non-Euclidean	Prerequisites: Description:	CHI 101 or equivalent 400 characters This 6-credit course is the continuation of CHI 101. Knowledge of Pinyin is required. The focus continues to be on developing listening and speaking skills with an increasing emphasis on reading and writing in ideographic characters. It aims to build a vocabulary based on 800 characters.
	geometry), set theory, will all be touched on. The introduction of the idea of rigorous proof. This course is independent of Math 300W, and may be taken independently of it.	Department: Course: Title: Instructor:	Modern Languages & Cultures Chinese CHI 114 Conversational Chinese Yu, S Class Size: 15
Department: Course: Title: Instructor: Prerequisites: Restrictions:	Mathematics MTH 437 Alegbra II Jochnowitz, N. MTH 436 Permission of instructor required for undergraduates	Instructor: Prerequisites: Description:	Class Size: 15 CHI 102 or equivalent, 1200 characters. This is a 2 credit course which may be taken twice for credit. Emphasis on speaking skills with a focus on current issues in Chinese culture and society. May be taken concurrently with CHI 151 or CHI 152.
Description:	Multilinear algebra, quadratic forms, simple and semi-simple rings and modules.	Department: Course: Title:	Modern Languages & Cultures Chinese CHI 152 Intermediate Chinese II
Department: Course: Title: Instructor: Prerequisites: Restrictions: Description:	Mathematics MTH 443 Algebraic Topology I Harper, J. MTH 436 and MTH 440 Permission of instructor required for undergraduates The combinatorial structure of complexes and the homology of polyhedra. Applications of algebraic techniques in topology to classification of surfaces, fixed point theory, and analysis.	Instructor: Prerequisites: Exams: Description:	Yu, S. Class Size: 15 Completion CHI 151 or equivalent Completion CHI 151 or equivalent Completion CHI 151 or equivalent, 1200 characters. Weekly quizzes, midterm, final This 6 credit course is a continuation of CHI 151. Grammar structures will be reviewed. Communicating skills are the focus and special emphasis will be given to expanding vocabulary and reading and writing at some length. Course work includes 3 weekly recitation sessions. It aims to build a vocabulary based on
Department: Course: Title: Instructor: Prerequisites: Restrictions: Description:	Mathematics MTH 471 Measure and Integration Mueller, C. MTH 265 or equivalent Permission of instructor required for undergraduates Lebesgue measure on the line. Measure spaces. Integration. Convergence theorems. The Radon-Nikodym theorem. Differentiation. Fubini's theorem. The function spaces Lp and C.	Department: Course: Title: Instructor: Prerequisites: Description:	Weekly rectation sessions. It aims to build a vocabulary based on1600 characters.Modern Languages & Cultures ChineseCHI 203Adv Intermediate Chinese IIYu, S.Class Size: 15CHI 202 or equivalent, 2000 characters.This 4 credit course covers various aspects of contemporaryChinese culture as found in magazines, journals, television, filmand videos. Class taught in Chinese.

Modern Languages & Cultures --

**Comparative Literature** 

## Modern Languages & Cultures -- Chinese

Title:   Elementary Chinese II   Course:   CLT 111Q	Department:	Modern Languages & Cultures Chinese		
The Elementary Chinese II	Course:	CHI 102	Department:	Modern Languages & Cultures Comparative Literature
	Title:	Elementary Chinese II	_	
Instructor: Yu, S., Pian, P. Class Size: 22 Title: Latin American Women Writers	Instructor:	Yu, S.,Pian, P. Class Size:	2 Title:	Latin American Women Writers

Cross-listed:	SP 260/460, CLT 226d,426d WST 256
Instructor:	Jorgensen, B.
Description:	See SP 260 for course description
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Modern Languages & Cultures Comparative Literature CLT 117Q Dante's Divine Comedy II IT196Q,221/CLT 253D/REL198Q,286/ENG266 Stocchi-Perucchio, D IT 195Q, CLT 116Q,REL 197Q, IT 220, CLT 253C, REL 285, IT 190Q, CLT 190Q, REL 190Q Please see IT 221 for the course description.
Department:	Modern Languages & Cultures Comparative Literature
Course:	CLT 204
Title:	Modern Japan
Cross-listed:	HIS 184, JPN 215
Instructor:	Hauser, W.
Description:	Please see HIS 184 for Course Description.
Department:	Modern Languages & Cultures Comparative Literature
Course:	CLT 208C
Title:	Issues in Contemporary Japanese Culture
Cross-listed:	CLT 408C, JPN 246, WST 268, HIS 278
Instructor:	Pollack, D.
Description:	Please see JPN 246 for the course description.
Department:	Modern Languages & Cultures Comparative Literature
Course:	CLT 209A
Title:	Russian Civilization
Cross-listed:	RST 128,128W/HIS 150/RUS 128,128W
Instructor:	Parthe, K.
Description:	Please see RUS 128 for the course description.
Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 211G
Title:	Feminist Film Theory
Cross-listed:	FR 287/487, FMS 355/555, ENG 261/461, WS
Instructor:	Willis, S.
Description:	Please see AH 355 for course description
Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 212A
Title:	Monsters, Ghosts and Aliens
Cross-listed:	GER 212/412, CLT 212a/412a, FMS 236
Instructor:	Gustafson, S.
Description:	For course description see GER 212

Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 214N
Title:	Tourist Japan
Cross-listed:	JPN 219A, 219W, 419A/CLT 414N, FMS 298
Instructor:	Bernardi, J.
Description:	Please see JPN 219A for course description
Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 222B
Title:	Gender and Sexuality in the 20th Century
Cross-listed:	CLT 422B/GER 272/WST 272
Instructor:	Creech, J.
Description:	Please see GER 272 for course description
Department:	Modern Languages & Cultures Comparative Literature
Course:	CLT 226D
Title:	Latin American Women Writers
Cross-listed:	SP 260/460, CLT 110Q,426D,WST 256
Instructor:	Jorgensen, B.
Description:	See SP 260 for the course description.
Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 230
Title:	FILM AS OBJECT
Cross-listed:	JPN 207/407. FMS 220/420, CLT 430
Instructor:	Bernardi, J.
Description:	For course description see JPN 207
Department:	Modern Languages & Cultures Comparative Literature
Course:	CLT 236B
Title:	U.S. Latinos/Latinas
Cross-listed:	CLT 436B/WST 287/AAS 251/SP 282,482
Instructor:	Rodriguez, R.
Description:	Please see SP 282 for the course description.
Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 252
Title:	Bright Lights, Big City: The Urban Imagination
Cross-listed:	Ger 252/452,FMS246/446,CLT252/452
Instructor:	Hwang, J.
Description:	Please see GER 252 for description
Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 253D
Title:	Dante's Divine Comedy II
Cross-listed:	IT 196Q,221/CLT117Q/REL198Q,286/ENG 266

Instructor:	Stocchi-Perucchio, D
Description:	Please see IT 221 for the course description.
Department: Course: Title: Instructor: Description:	Modern Languages & Cultures Comparative Literature CLT 389 Major Seminar Gustafson, S. CLT 389 is an introduction to theories and critical approaches as strategies for reading and interpreting texts, films, and other cultural objects. Students in this course will read a variety of literature and theory with an eye toward understanding what criticism's roles are, why and how the study of literature and culture (still) matters, and how they can develop their own critical skills based on their personal interests and concerns. This course teaches reading strategies that will help students to get to the heart of what they are studying, and very significant amounts of coursework will be devoted to the art of writing the literary essay. How do you choose a thesis, what methods of investigation do you employ, and how do you synthesize your analysis? Required of all Majors in MLC, this course is also open to students with a Minor in an MLC discipline, or by permission of the instructor.
Department:	Modern Languages & Cultures Comparative Literature
Course:	CLT 408C
Title:	Issues in Contemporary Japanese Culture
Cross-listed:	CLT 208C, JPN 246, WST 268, HIS 278
Instructor:	Pollack, D.
Description:	See JPN 246 for description.
Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 412A
Title:	Monsters, Ghosts and Aliens
Cross-listed:	GER 212/412, CLT 212a/412a, FMS 236
Instructor:	Gustafson, S.
Description:	For course description see GER 212
Department:	Modern Languages & Cultures Comparative Literature
Course:	CLT 426D
Title:	Latin American Women Writers
Cross-listed:	SP 260/460, CLT 111Q, 226D,WST 256
Instructor:	Jorgensen, B.
Description:	See SP 260 for course description
Description:	See SP 260 for course description
Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 430
Title:	FILM AS OBJECT
Cross-listed:	JPN 207/407. FMS 220/420, CLT 230

Instructor:	Bernardi, J.
Description:	For course description see JPN 207
Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 431A
Title:	Introduction to Francophone Lit
Cross-listed:	FR 271/471, CLT 431A/231A, AAS 236
Instructor:	Kemedjio, C.
Description:	See FR 271 for Course description
Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 436B
Title:	U.S. Latinos/Latinas
Cross-listed:	SP 282, SP 482, CLT 236b,436b, WST 287,
Instructor:	Rodriguez, R.
Description:	See SP 282 for course description
Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 452
Title:	Bright Lights, Big City: The Urban Imagination
Cross-listed:	CLT 252,GER 252/452, FMS 246/446
Instructor:	Hwang, J.
Description:	See GER 252 for Course description

# Modern Languages & Cultures -- French

Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Modern Languages & Cultures French FR 102 Elementary French II Lutkus, A. Class Size: 22 FR 101 or equivalent occasional quizzes; final exam French 102 continues the work of the beginning course. There is an additional emphasis on reading comprehension and vocabulary building.	
Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Modern Languages & Cultures French FR 114 Conversational French (2 credits) Lutkus, A. Class Size: 15 FR 102, 151, or equivalent Oral Examinations This course will use short readings on a variety of topics to encourage development of speaking skills. Emphasis on oral practice and acquisition of vocabulary from the book. May be taken concurrently with FR 151 or FR 152 and may be taken	

Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Modern Languages & Cultures French FR 151 Intermediate French I Lutkus, A. Class Size: 15 ETS score of 500 or permission of instructor Quizzes, compositions, hour exams Continuing study of French in its spoken and written forms. Readings in modern French culture and literature will provide a basis for improvement of language skills. Stress will be placed on both personal expression and the development of critical reading technique.	Prerequisites: Description: Department: Course: Title: Cross-listed: Instructor:	<ul> <li>FR 200 or equivalent</li> <li>This course is designed to provide students with intensive practice in reading French from a wide variety of sources. Texts drawn from literature, popular culture, journalism and other specialized fields will be read and discussed with an eye toward improving students' comprehension, developing their vocabulary, and expanding their interpretive and analytic capabilities.</li> <li>Modern Languages &amp; Cultures - French FR 211</li> <li>Aspects of French Grammar FR 411</li> <li>Douchin, A.</li> </ul>
Department: Course:	Modern Languages & Cultures French FR 152	Description:	Close analysis of selected texts. Discussion and practice of advanced topics.
Title: Instructor: Prerequisites: Exams: Description:	Intermediate French II Douchin, A. Class Size: 15 FR 151, or ETS score of 550 Quizzes, compositions, final exam A continuation of French 151, this course further develops language skills in the context of readings on French culture and literature. A major work of literature will be read in its entirety.	Department: Course: Title: Cross-listed: Instructor: Description:	Modern Languages & Cultures French FR 212 Translation Workshop FR 412 Douchin, A. <b>Class Size:</b> 30 A Course in "French Translation" is intended for those who wish
Department: Course: Title: Instructor: Description:	Modern Languages & Cultures French FR 155 French Conversation and Composition Lelay, N. The most advanced conversation and composition course aims to bring students to a level of proficiency with the spoken language, including its idiomatic forms, and to refine composition skills.	Department:	both to improve their comprehension of the written text and to interpret it at an appropriate stylistic level through translation into English. The course will be based on a great variety of texts, elementary to highly sophisticated. selected both by the teacher and by the students. A basic reference work, combining grammar and texts, will be required. Modern Languages & Cultures French
Department:	Course materials include extensive use of popular French culture, including film. Modern Languages & Cultures French	Course: Title: Cross-listed: Instructor:	FR 234 Paris: Capital of the 19th Century FR 434, AH 434, CLT 234 Doran, Robert
Course: Title: Instructor: Prerequisites: Description:	FR 200 Advanced French I Papaioannou, J. Class Size: 20 FR 152 or equivalent Intensive practice in reading, writing, and speaking French, based on rigorous grammar review and on close readings of short literary and cultural texts. Classroom work emphasizes grammar, speaking, reading and writing French.	Description:	Course studies how Paris became the archetypal modern city. Examination of literary forms specially attuned to depicting the new urban realities, such as the realist novel and Baudelaire's poetry, as well as paintings, illustrations, and photographs. Haussmann's spatial and architectural transformation of the city during the second half of the 19th century. Walter Benjamin's writings on Paris analyzed in light of recent work by cultural historians. In English.
Department: Course: Title: Instructor:	Modern Languages & Cultures French FR 202 Introduction to Literature in French DiPiero, T. Class Size: 20	Department: Course: Title: Cross-listed:	Modern Languages & Cultures French FR 238 Romantic Orientalism FR 438

Instructor: Description:	Doran, Robert This course studies the way in which the "orient" (North Africa, the Middle East, Persia) was represented in the literature and painting of French Romanticism. Analysis of Edward Said's famous thesis concerning the West's "orientalism" against the backdrop of nineteenth-century French colonialism. Authors studied included Chateaubriand, Hugo, Gautier, Nerval, Baudelaire, Flaubert. Paintings by Delacroix, Ingres, GÈrme, Fromentin, Vernet. In French.
Department: Course: Title: Instructor: Description:	Modern Languages & Cultures French FR 270 Post Colonial Women's Writing Papaioannou, J. This course will examine the postcolonial literary production of Francophone women writers from Africa and the Caribbean. We will focus on the theoretical questions of postcolonial literature and issues of representation of women hood. A close reading of texts will help us investigate how Francophone women writers treat their cultures and societies from the feminine point of view to illustrate, confront, and negotiate patriarchy, tradition, exile, and migration.
Department: Course: Title: Instructor: Description:	Modern Languages & Cultures French FR 279A Colonial France: 19th to 20th Century Papaioannou, J. This course examines the role of France as a colonial empire that, although it began to take shape in the 17th century, was solidified at the end of the 19th and beginning of 20th centuries by a great acquisition of colonial land and intense civilizing mission in place. Course readings will primarily date back to and focus on the most prominent period of colonialism, that of the Third Republic (1871-1945) up to the time of Decolonization in the 1960s, to address notions of imperialism, national identity, as well as the development of colonial discourse in relation to the advancement of scientific knowledge. Readings, films, and class discussions primarily in English.
Department: Course: Title: Cross-listed: Instructor: Description:	Modern Languages & Cultures French FR 287 Feminist Film Theory CLT 211G/FR 487/ENG 261/461/FMS 355/555, Willis, S. Please see AH 355 for the course description.
Department:	Modern Languages & Cultures French

Course:	FR 411
Title:	Aspects of French Grammar
Cross-listed:	FR 211
Instructor:	Douchin, A.
Description:	See FR 211 for course description
Department:	Modern Languages & Cultures - French
Course:	FR 412
Title:	Translation Workshop
Cross-listed:	FR 212
Instructor:	Douchin, A.
Description:	Please see Course Description for FR 212.
Department:	Modern Languages & Cultures French
Course:	FR 434
Title:	Paris: Capital of the 19th Century
Cross-listed:	FR 234, CLT 234, AH 434
Instructor:	Doran, Robert
Description:	For course description see FR 234
Department:	Modern Languages & Cultures French
Course:	FR 438
Title:	Romantic Orientalism
Cross-listed:	FR 238
Instructor:	Doran, Robert
Description:	For course description see FR 238
Department:	Modern Languages & Cultures French
Course:	FR 482
Title:	The Films of Jean-Luc Godard
Cross-listed:	Fr282AH211/411CLT211/411ENG264/464FMS253
Instructor:	Willis, S.
Description:	See AH 211 for course description

# Modern Languages & Cultures -- German

Department: Course:	Modern Languages & Cultures GER 102	German	
Title:	Elementary German II		
Instructor:	Kuzmich, A.,	Class Size: 25	
Exams:	Quizzes, midterm, final exam		
Description:	This is the continuation of a two-semester sequence using an exciting new interactive approach to language learning. Students are encouraged, right from the start, to communicate in German utilizing basic vocabulary and authentic expressions in their spoken and written work. Listening comprehension is honed using audio taped material featuring a variety of native speakers,		

while a series of video tapes provide a basic introduction to the cultures of German speaking countries.

Department: Course: Title:	Modern Languages & Cultures German GER 152 Intermediate German II Peck, J. <b>Class Size:</b> 15		etc.). Authors include Droste-Huelshoff, Me King. This course is p Cluster.
Instructor: Prerequisites:	Peck, J. Class Size: 15 GER 151 or equivalent	Department:	Modern Languages &
Exams:	4-5 quizzes; final exam	Course:	GER 252
Description:	In GER 152, the focus is shifted slightly toward reading authentic	Title:	Bright Lights, Big Cit
Description.	material; short pieces of fiction and newspaper articles. Goal of	Cross-listed:	GER 452,FMS 246/F
	this two-semester sequence is communicative proficiency. The	Instructor:	Hwang, J.
	"Zertifikat Deutsch als Fremdsprache" examination, attesting to	Description:	The city in film and li
	this proficiency, is offered at the end of each spring semester.	I	discourses of moderni
	(see also description for GER 151). Please note; This course uses		imagined urban space
	the same textbook as GER 151, but does require a lab fee of		relationship between t
	\$45.00.		about and through the
			Some of the texts we
Department:	Modern Languages & Cultures German		Schnitzler's Dream St
Course:	GER 202		
Title:	Intro: German Cultural Studies	Department:	Modern Languages &
Cross-listed:	GER 202W	Course:	GER 272
Instructor:	Creech, J. Class Size: 15	Title:	Gender and Sexuality
Prerequisites:	GER 200 or equivalent	Cross-listed:	GER 472, CLT 222B
Description:	This is one of several core classes required for the major.	Instructor:	Creech, J.
	Students should have completed at least 152 and preferably 200.	<b>Description:</b>	This course will exam
	This course will introduce students to basic principles of cultural		representations of gen
	analysis at the heart of the discipline of German Studies.		the course of the 20th
	Emphasis will focus on how the media act to form and facilitate		Western Europe and t
	various aspects of issues in contemporary German culture.		perspectives. From the
Donortmont	Madam Languagas & Culturas Common		transnational feminisr
Department: Course:	Modern Languages & Cultures German GER 211		nation" and gay marri Foucault and Judith B
Title:	Conversational German Through Drama (4 credit course)		politically charged de
Description:	This course is primarily a conversation course in which the		shaped our views of id
Description	students will concentrate on self expression through dramatic		shuped our views or k
	texts. You will be able to improve pronunciation and intonation	Department:	Modern Languages &
	through character roles. The course will include a final public	Course:	GER 291
	reading.	Title:	Weimar Culture
		Instructor:	Hwang, J.
Department:	Modern Languages & Cultures German	<b>Description:</b>	During the Weimar pe
Course:	GER 212	•	of many innovations i
Title:	Monsters, Ghosts and Aliens		Looking at various me
Cross-listed:	GER 412, CLT 212a/412a, FMS 236		Objectivity, this cours
Instructor:	Gustafson, S.		social change and art.
Description:	This course focuses on the horror genre as popular entertainment		German; German 200
	in Ger- many, England, and the US in the 19th and 20th		

centuries. Particular attention will be paid to the construction of "others" as monsters (Frankenstein, Vampires, Devils, Aliens, etc.). Authors include: Schillere, Tieck, Hoffmann, Goethe, Droste-Huelshoff, Meyer, Shelley, Stoker, Bradbury, Rice, and King. This course is part of the Horror in Literature & Film Cluster.

Department: Course: Fitle: Cross-listed: Instructor: Description:	Modern Languages & Cultures German GER 252 Bright Lights, Big City: The Urban Imagination GER 452,FMS 246/FMS 446/CLT 248/CLT 452 Hwang, J. The city in film and literature is never just a physical space - discourses of modernity and urban life are mapped onto real and imagined urban spaces. In this course we will explore how the relationship between the spaces of the city and the stories told about and through them shape our understanding of urban life. Some of the texts we will examine are: Fritz Lang's M, Arthur Schnitzler's Dream Story, and Lloyd Bacon's 42nd Street.
Department: Course: Fitle: Cross-listed: Instructor: Description:	Modern Languages & Cultures German GER 272 Gender and Sexuality in the 20th Century GER 472, CLT 222B, 422B/WST 272/472 Creech, J. This course will examine literary, artistic, and theoretical representations of gender and sexuality as they have changed in the course of the 20th Century. The focus will be on texts from Western Europe and the US, but we will also consider other perspectives. From the New Woman to French Feminists and transnational feminism, from homophile societies to "queer nation" and gay marriage, from Sigmund Freud to Michel Foucault and Judith Butler, we will explore the contested and politically charged debates around gender and sexuality that have shaped our views of identity over the last century.
Department: Course: Fitle: Instructor: Description:	Modern Languages & Cultures German GER 291 Weimar Culture Hwang, J. During the Weimar period (1918-1933), Germany was the center of many innovations in the arts, literature, film and architecture. Looking at various movements such as Expressionism and New Objectivity, this course will explore the connections between social change and art. The texts and discussions will be in German; German 200 or its equivalent is a prerequisite.

Department:	Modern Languages & Cultures German	Coursework:	Daily preparation for classes, including language laboratory.
Course: Title:	GER 292	Decemintion	Three cultural events (evenings, participation mandatory) Continuation of IT 101. The objective of the course is to provide
Cross-listed:	Energy Decisions in the USA and Germany EES 318W	Description:	beginners with a thorough grounding in all language skills:
	Fehn, U.		listening, speaking, reading and writing. Emphasis is placed on
Instructor:			
<b>Description:</b>	Please see EES 319W, Earth & Environmental Sciences, for the		both grammar and cultural information. Classes meet five times
	course description. Students in this segment will be required to		a week and combine language theory and practice. Each class is
	read and work with source material in German. Permission of the		fifty minutes long. Students must sign up for both a MWF and a
	Instructor is required.		TR block. As far as Italian is concerned, the terms "lecture" and
			"recitation" conventionally used to identify the blocks have a
Department:	Modern Languages & Cultures German		purely bureaucratic significance and do not reflect in any way the
Course:	GER 412		pedagogical approach of the course.
Title:	Monsters, Ghosts and Aliens		
Cross-listed:	GER 212, CLT 212a/412a, FMS 236	Department:	Modern Languages & Cultures Italian
Instructor:	Gustafson, S.	Course:	IT 114 $(1 + 1)$ $(2 + 1)$ $(2 + 1)$ $(3 + 1)$
Description:	For course description see GER 212	Title:	Conversational Italian (2 credits) Class Size: 15
D	Madam Lanama & Caltana Caman	Prerequisites:	At least one semester of College Italian or equivalent, with
Department: Course:	Modern Languages & Cultures - German GER 452	Decomintions	permission of the instructor.
		<b>Description:</b>	This conversation course designed to help students with some knowledge of Italian grammar develop facility with the spoken
Title:	Bright Lights, Big City: The Urban Imagination		
Cross-listed:	GER 252, FMS 246/446, CLT 248, CLT 452		language. Emphasis is placed on vocabulary- building. Class time devoted to debate, discussions, and conversations about
Instructor:	Hwang, J. For Course description see GER 252		current topics and aspects of contemporary Italian culture.
<b>Description:</b>	For Course description see OEK 252		Themes for discussion are both extemporaneous and planned.
Department:	Modern Languages & Cultures German		Students are expected to prepare for the assigned themes in
Course:	GER 472		advance. Recommended in conjunction with any Italian course,
Title:	Gender and Sexuality in the 20th Century		except for IT 101, for extra oral practice. May be taken twice.
Cross-listed:	GER 272, CLT 222b/422b, WST 272/472		exception in 101, 101 exita oral practice. May be taken twice.
Instructor:	Creech, J.	Department:	Modern Languages & Cultures Italian
Description:	For course description see GER 272	Course:	IT 124
2.000.1.1.000		Title:	Italian Culture
Department:	Modern Languages & Cultures German	Instructor:	Mariuz, S.
Course:	GER 488	Description:	Topics may include politics, economics, mass media, intellectual
Title:	Mothers Comrades & Whores	L	life, education, popular culture; as well as the ethnic, economic,
Cross-listed:	Ger 288,CLT 212p/412p,WST 288, FMS 256d		and cultural relations between Italy and Eastern Europe, Asia,
Instructor:	Creech, J.		Africa, the European community, and the United States. Since the
Description:	See GER 288 for course description		specific topic of the course varies each year, IT 124 may be taken
•	1		more than once.
Modor	n Languages & Cultures Italian		
MUUUCI	n Danguages & Cultures Italiali	Department:	Modern Languages & Cultures Italian
		Course:	IT 152
Lionartmont	Modern Languages & Cultures Italian	CT19 4 1	T . II . T. II TT

Title:

Exams:

Instructor:

**Prerequisites:** 

O'Keefe, L.

Intermediate Italian II

IT 102 or permission of the instructor.

Seven quizzes, one 4-5 page final paper

Class Size: 15

Department:	Modern Languages & Cultures Italian	
Course:	IT 102	
Title:	Elementary Italian II	
Instructor:	O'Keefe, L.	Class Size: 45
Prerequisites:	IT 101 or equivalent	
Exams:	Weekly tests and a final exam	
Coursework: Description:	One additional hour of instruction per week in the Multimedia Center (individualized scheduling). Daily preparation for classes, including language laboratory. Four compositions. Continuation of IT 151. The aim of the course is to reinforce the student's reading, writing, listening and speaking skills in a meaningful cultural context. This objective is achieved through both a systematic study of the fundamentals of grammar and the analysis of a variety of cultural materials. Topics for study, writing practice, and discussion include literature, history, film, and popular culture.	
---	---	
Department: Course: Title: Instructor: Prerequisites: Description:	Modern Languages & Cultures Italian IT 155 Advanced Italian Conversation and Composition Stocchi-Perucchio, D. IT 152, or 4 semesters of college Italian for transfers, or 3 semesters of Italian and 1 semester of study abroad. The goal of this course is to bring students to a level of proficiency in the spoken language and to refine their writing skills. The course addresses a great variety of contemporary cultural issues concerning family, society, education, religion, art, music, style, and entertainment. Course materials may include newspapers, magazines, the Internet, and satellite television.	
Department: Course: Title: Cross-listed: Instructor: Description:	Modern Languages & Cultures Italian IT 196Q Dante's Divine Comedy II HIS 157, IT 221, CLT 117Q, CLT 253D, REL Stocchi-Perucchio, D. (Continuation of Dante's Divine Comedy I.) This course is the second segment of a two-semester sequence on the Divine Comedy. The purpose of the sequence is to introduce students to the liberal arts through one of the most significant texts in Western civilization. While reading about Dante's adventurous journey from Inferno to Paradise, students will gain a perspective on the Biblical, Christian, and Classical traditions, and on the political, literary, philosophical, and theological dimensions of medieval European culture. The sequence will also provide students with an avenue of investigation on the problem of knowledgeone of the poem's central concernsand guide them in developing critical tools and research skills. This course will consist on a close reading of the second part of Purgatory and on Paradiso. Lectures and class discussion will be complemented by a weekly recitation session. Students enrolled for the upper level cross listings will be assigned a separate complementary reading list with additional primary and secondary sources. Prerequisites;	

# IT 195Q, CLT 116Q, REL 197Q/IT 220, CLT 253C, REL 285, IT 190Q, CLT 190Q, REL 190Q.

Department: Course: Title: Description:	Modern Languages & Cultures Italian IT 200 Topics in Italian Culture and Advanced Italian Language Designed for students who already have a basic knowledge of spoken and written Italian, this course addresses different aspects of modern and contemporary Italian culture emphasizing, at the same time, the usage of Italian language. Topics may include politics, economics, mass media, intellectual life, education, popular culture: as well as the ethnic, economic, and cultural relations between Italy and Eastern Europe, Asia, Africa, the European Community, and the United States. Since the specific topic of the course varies each year and the course is typically taught by a different visiting professor from the University of Siena/Arezzo, Italy, IT 200 may be taken more than once. The course meets three times a week and coincides for two thirds with IT 124. Language of Instruction: Italian and English.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Modern Languages & Cultures - Italian IT 221 Dante's Divine Comedy II IT 196Q/CLT117Q,253D/REL198Q/286/ENG 266 Stocchi-Perucchio, D. Prerequisites: IT 195Q, CLT 116Q, REL 197Q/IT 220, CLT 253C, REL 285, IT 190Q, CLT 190Q, REL 190Q. (Continuation of Dante's Divine Comedy I.) This course is the second segment of a two-semester sequence on the Divine Comedy. The purpose of the sequence is to introduce students to the liberal arts through one of the most significant texts in Western civilization. While reading about Dante's adventurous journey from Inferno to Paradise, students will gain a perspective on the Biblical, Christian, and Classical traditions, and on the political, literary, philosophical, and theological dimensions of medieval European culture. The sequence will also provide students with an avenue of investigation on the problem of knowledgeone of the poem's central concernsand guide them in developing critical tools and research skills. This course will consist on a close reading of the second part of Purgatory and on Paradiso. Lectures and class discussion will be complemented by a weekly recitation session. Students enrolled for the upper level cross listings will be assigned a separate complementary reading list with additional primary and secondary sources.

### Modern Languages & Cultures -- Japanese

Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Modern Languages & Cultures Japanese JPN 102 Elementary Japanese II (six credits) Shino, F. Class Size: 40 JPN 101 or equivalent Regular assignments; frequent quizzes; final exam Sequel to JPN 101. Lecture and recitation designed to help the students at the advanced beginning level acquire a practical command of modern Japanese in all areas. Six credits: the student must register for both lecture and recitation. (This does not apply to the summer session). Although the main emphasis is still on speaking and listening, the students will have more opportunities for writing than in JPN 101. The classes will be conducted in both Japanese and English. The students will	Title: Instructor: Prerequisites: Exams: Coursework: Description:	Advanced Intermediate Japanese II Tamate, M Class Size: 20 JPN 202 or Permission of the Instructor Kanji quizzes, Unit quizzes, a comprehensive final. Essay assignments This course aims at further improvement of student's overall proficiency in the Japanese language. Students will start learning more of colloquial speech style used heavily among family members and/or close friends through the video program based on a Japanese TV drama. Reading skills will be improved through reading various "raw" materials. Essay assignments will be given to students regularly in order to brush up their writing skills.
	master, among other things, "keigo" (polite language), female vs. male speech style, and "direct" style verbals. Text; "Introduction to Modern Japanese" by Mizutani. Video and audio tapes are frequently used.	Department: Course: Title: Instructor: Prerequisites:	Modern Languages & Cultures Japanese JPN 204 Advanced Conversational Japanese (two credits) Tamate, M. Class Size: 20 JPN 152 or Permission of Instructor
Department: Course: Title: Instructor: Prerequisites: Description:	Modern Languages & Cultures Japanese JPN 114 Intermediatae Conversational Japanese Tamate, M. JPN 102 or equivalent Emphasis on speaking skills with focus on current issues in	Description:	Provides students of JPN 202 level or higher with the opportunity to improve their speaking skills. Class activities include discussion of current issues and oral drills. The class will be conducted in Japanese, and is not intended for students who have already acquired near-native fluency.
Ĩ	Japanese culture and society. May be taken concurrently with JPN 151 or JPN 152. This is a two-credit course which may be taken twice for credit.	Department: Course: Title: Cross-listed:	Modern Languages & Cultures Japanese JPN 206 Advanced Japanese II JPN 206W
Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Modern Languages & Cultures Japanese JPN 152 Intermediate Japanese II Tamate, M. Class Size: 30 JPN 151 or Permission of the instructor Regular assignments; frequent quizzes; final exam STUDENTS MUST REGISTER FOR BOTH LECTURE AND RECITATION. Sequel to JPN 151. Lecture and recitation	Instructor: Exams: Coursework: Description:	Tamate, M.Class Size: 30Kanji quizzes, Unit quizzes, a comprehensive final.Essays or PresentationsReading fiction, essays and newspaper articles. A popularJapanese drama series, will enhance students' ability tounderstand different speech styles adopted by people at at varioussocial levels. Class taught in Japanese.
	designed to help the students at the intermediate level acquire a practical command of modern Japanese in all areas. The classes will be conducted in Japanese except in the grammar lecture. Requirements include daily quizzes and performing skits. TEXT: An Integrated Approach to Intermediate Japanese by Akira Miura & Naomi Hanaoka McGloin (The Japan Times). This course covers L.7 through 12 of the textbook. 6 credits	Department: Course: Title: Cross-listed: Instructor: Description:	Modern Languages & Cultures Japanese JPN 206W Modern Japanese Literature JPN 206 Tamate, M. For course description see JPN 206
Department: Course:	Modern Languages & Cultures Japanese JPN 203	Department: Course: Title:	Modern Languages & Cultures Japanese JPN 207 FILM AS OBJECT

Cross-listed: Instructor: Description:	JPN 407,FMS 220/420, CLT 230/430 Bernardi, J. Film Studies involves the critical analysis of the pictorial and narrative qualities of motion pictures, film theory, and film history, understanding film as both industry and creative art. This course unconventionally focuses on the tangible object at the origin of the onscreen image, and what we can learn about the social, cultural and historical value of motion pictures and national film cinemas through and understanding of "Film" as an organic element with a finite life cycle. Focus is on the photographic element, but includes a consideration of alternative "capture media."	Title: Cross-listed: Instructor: Description: Department: Course: Title:	<ul> <li>Issues in Contemporary Japanese Culture CLT 208C/408C, WST 268, HIS 278</li> <li>Pollack, D.</li> <li>Reading and discussion of items in recent popular and scholarly media in Japan and the west on issues of contemporary concern, including national and racial identity, gender and sex roles, immigration and work, war and history, cultural authenticity, and Japan's place in Asia and the world.</li> <li>Modern Languages &amp; Cultures Japanese JPN 269</li> <li>Art of the Floating World</li> </ul>
Department: Course: Title: Cross-listed: Instructor: Description:	Modern Languages & Cultures Japanese JPN 215 Modern Japan HIS 184, CLT 204 Hauser, W. Please see HIS 184 for Course Description	Cross-listed: Instructor: Description:	AH 269, WST 270 Pollack, D. This course explores the urban, theatrical, poetic, pastoral, and erotic worlds of Japanese paintings and woodblock prints called ukiyo-e or "floating world pictures", a reference to the world of pleasures offered by urban Edo (modern-day Tokyo) during the Edo period (1603-1867). These works include images of Kabuki actors, theatrical battles and romances, tea-house dandies and
Department: Course: Title: Cross-listed: Instructor:	Modern Languages & Cultures Japanese JPN 219A Tourist Japan CLT 214N, 414N/FMS 298/JPN 219W, 419A Bernardi, J.		beautiful women, historical allegories, erotica, landscapes, nature, historical battles and events, and foreign visitors to Japan. Special attention will be given to the social contexts in which these works were created and consumed.
Description:	A study of Japan as a tourist destination, focusing on the late nineteenth century to the present, with an emphasis on the role of visual culture (images generated by the tourist industry as well as those that advertise and promote Japan as a tourist destination more inadvertently). We will look at the ways in which the development and significance of tourism and the artifacts that sustain it construct a rich history of how Japan has both defined	Department: Course: Title: Cross-listed: Instructor: Description:	Modern Languages & Cultures Japanese JPN 407 FILM AS OBJECT JPN 207, FMS 220/420, CLT 230/430 Bernardi, J. See JPN 207 for course description
	itself and been defined by others. For example, what has been the role of visual culture, in the context of tourism, in creating a concept of Japan in a global context? How do illustrations,	Moder	rn Languages & Cultures Polish
	photography, and film reflect changing concepts of urban space, rural culture, industry, geography, and military and political authority at both the national level and beyond? What is the phenomenon of postcard culture; its origins, significance, and development? Can we, for example, identify patterns (for example, recurrent iconography) that provide a link between the visual culture generated by tourism and changing concepts of nationalism and cultural identity? In what ways can such an	Department: Course: Title: Instructor: Prerequisites: Description:	Modern Languages & Cultures Polish POL 102 Elementary Polish II Polakowski, K. Polish 101 or equivalent Elementary Polish II is a continuation of Elementary Polish I, and a pre-requisite for Intermediate Polish.
Department: Course:	Modern Languages & Cultures Japanese JPN 246	Department: Course: Title: Instructor:	Modern Languages & Cultures Polish POL 152 Polish Review Polakowski, K.

**Description:** The main objective of this course is to refine the participants' language skills and to familiarize them with political and cultural issues of contemporary Poland. The course will require a working knowledge of the Polish language necessary to discuss the content of source materials (e.g. articles and essays in the Polish Press, recent Polish films.) It will focus on group discussions based on source materials and papers prepared by it participants.

### Modern Languages & Cultures -- Russian

Department: Course: Title: Instructor: Prerequisites: Description:	Modern Languages & Cultures Russian RUS 102 Elementary Russian II Givens, J. Class Size: 45 RUS 101 or equivalent Continuing introduction to Russian grammar, phonetics and conversation. Emphasis will be on practical Russian language skills. Lectures will combine drills in Russian with presentations in English. Recitations will be conducted primarily in Russian. Students must sign up for lecture AND a recitation section. Attendance at both the lecture and recitation section is mandatory.
Department: Course: Title: Cross-listed: Instructor: Description:	Modern Languages & Cultures Russian RUS 128 Russian Civilization RUS 128W/RST 128,128W/HIS 150/CLT 209A Parthe, K. Russian Civilization from its beginnings a thousand years ago to the present day. Each unit will cover historical and cultural background as well as literary texts. We will examine important national "myths" (narratives with a variable connection to the historical record) that govern the Russians' understanding of their history and culture, including: the Golden Age of Kiev, Moscow as the Third Rome, and the myths surrounding the city of Petersburg. We will analyze traditional tensions in Russian civilization which prevail today, such as those between; chaos and order, foreign influence and a strong national identity, innovation and tradition, and between radical skepticism and faith. Readings will include: Russian fairy tales and saints' lives, excerpts from the autobiography of the 17th century heretic Avvakum, tales by Pushkin and Gogol, one of Dostoevsky's most powerful and influential novels ("The Devils/Possessed"), and a wide range of materials from the twentieth century. In English.

**Department:** 

	Course:	RUS 200
RUS 101 or equivalent	Title:	Advanced Russian
Continuing introduction to Russian grammar, phonetics and	Instructor:	Givens, L. Class Size: 15
conversation. Emphasis will be on practical Russian language	<b>Prerequisites:</b>	RUS 152 or permission of instructor
skills. Lectures will combine drills in Russian with presentations	Restrictions:	Permission of instructor required
in English. Recitations will be conducted primarily in Russian.	Exams:	3-4 exams and several quizzes
Students must sign up for lecture AND a recitation section.	Description:	This course will emphasize reading and writing skills. Students
Attendance at both the lecture and recitation section is	L	will read and analyze our course text, paying attention to
mandatory.		questions of grammar and style. We will also devote attention to
		speaking through discussions of our reading and through periodic
Modern Languages & Cultures Russian		class presentations. In addition, selected aspects of advanced
RUS 128		Russian grammar will be presented throughout the semester. The
Russian Civilization		aim of this course is to raise the overall competence of students to
RUS 128W/RST 128,128W/HIS 150/CLT 209A		an advanced level
Parthe, K.		
Russian Civilization from its beginnings a thousand years ago to	Department:	Modern Languages & Cultures Russian
the present day. Each unit will cover historical and cultural	Course:	RUS 209
background as well as literary texts. We will examine important	Title:	Topics in Advanced Russian Grammar
national "myths" (narratives with a variable connection to the	Instructor:	Givens, L.
historical record) that govern the Russians' understanding of their	Description:	Students study various topics in advanced grammar, lexicon and
history and culture, including: the Golden Age of Kiev, Moscow	2 contrain	syntax through viewing, discussing and writing about Russian
as the Third Rome, and the myths surrounding the city of		films.
Petersburg. We will analyze traditional tensions in Russian		
civilization which prevail today, such as those between; chaos	Department:	Modern Languages & Cultures Russian
and order, foreign influence and a strong national identity,	Course:	RUS 238
innovation and tradition, and between radical skepticism and	Title:	Solzhenitsyn: Writer, Prophet, Witness
faith. Readings will include: Russian fairy tales and saints' lives,	Cross-listed:	RST 238, RUS 238w, HIS 242/242w
excerpts from the autobiography of the 17th century heretic	Instructor:	Parthe, K.
Avvakum, tales by Pushkin and Gogol, one of Dostoevsky's most	Description:	For course description see RST 238
powerful and influential novels ("The Devils/Possessed"), and a		
wide range of materials from the twentieth century. In English.	Department:	Modern Languages & Cultures Russian
	Course:	RUS 238W
Modern Languages & Cultures Russian		

Course:

**Cross-listed:** 

**Description:** 

**Department:** 

Instructor:

**Prerequisites: Description:** 

**Department:** 

Course:

Course:

Title:

Instructor:

Title:

**RUS 128W** 

Parthe, K.

**RUS 152** 

Givens, L.

**RUS 200** 

**Russian Civilization** 

Intermediate Russian II

RUS 128, CLT 209a, HIS 150, RST 128/128w,

Class Size: 25

For course description see RUS 128

Modern Languages & Cultures -- Russian

RUS 151 or Permission of the Instructor

attention to conversation and composition.

Modern Languages & Cultures -- Russian

Continuation of RUS 151. Grammatical review and increasing

Title:	Solzhenitsyn: Writer, Prophet, Witness
<b>Cross-listed:</b>	RST 238, RUS 238, HIS 242/242w
Instructor:	Parthe, K.
Description:	For Course description see RST 238

#### Modern Languages & Cultures -- Russian Studies

Department:	Modern Languages & Cultures Russian Studies
Course:	RST 128
Title:	Russian Civilization
Cross-listed:	RST 128W/RUS 128,128W/HIS 150/CLT 209A
Instructor:	Parthe, K.
Description:	Please see RUS 128 for the course description.
Department: Course: Title: Cross-listed: Instructor: Description:	Modern Languages & Cultures Russian Studies RST 238 Solzhenitsyn: Writer, Prophet, Witness RUS 238, RUS 238w, HIS 242/242w Parthe, K. In fiction (Ivan Denisovich, First Circle) and non-fiction (Gulag Archipelago, Oak and Calif, Alexander Solzhenitsyn witnessed history and changed it.
Department:	Modern Languages & Cultures Russian Studies
Course:	RST 238W
Title:	Solzhenitsyn: Writer, Prophet, Witness
Cross-listed:	RST 238, RUS 238, RUS 238w
Instructor:	Parthe, K.
Description:	For Course description see RST 238

### Modern Languages & Cultures -- Spanish

Department:	Modern Languages & Cultures Spanish		
Course:	SP 101		
Title:	Elementary Spanish I		
Instructor:	Kouroublakis, B.	Class Size: 20	
Exams:	Frequent quizzes, midterm, final.		
Coursework:	Daily assignments.		
<b>Description:</b>	Intended for students with no background in Spanish, or whose		
	background does not make placement in a higher-level course advisable. Training in speaking, comprehension, reading and writing through classroom instruction and recitation periods. Students must also register for an associated recitation section.		

Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Modern Languages & Cultures Spanish SP 102 Elementary Spanish II Cole, A. <b>Class Size:</b> 20 SP 101 or equivalent SP 101 or equivalent. Frequent quizzes, midterm, final. Daily assignments. Spanish 102 continues the work of the beginning course Spanish 101. There is added emphasis on reading comprehension, vocabulary building, and culture. Students must also register for an associated recitation session.
Department: Course: Title: Instructor: Prerequisites: Exams: Coursework: Description:	Modern Languages & Cultures Spanish SP 151 Intermediate Spanish I Cole, A.,Kouroublakis, B.,. Class Size: 20 SP 102, ETS score of 500 or Placement by dept. Midterm, Final. Four Compositions and rewrites. Daily assignments. Continuing study of modern Spanish in its spoken and written forms. Emphasis is given to cultural and literary readings and discussions, as well as basic composition writing skills and Multimedia Center activities related to the text.
Department: Course: Title: Instructor: Exams: Coursework: Description:	Modern Languages & Cultures Spanish SP 152 Intermediate Spanish II Cole, A., <b>Class Size:</b> 20 Midterm and Final. Four compositions and rewrites. Daily assignments. Continuation of SP 151. Intended to advance conversational skills and refine writing techniques through cultural and literary readings, discussions, and Multimedia Center assignments related to the text.
Department: Course: Title: Instructor: Prerequisites: Exams: Coursework: Description:	Modern Languages & Cultures Spanish SP 200 Advanced Spanish Composition Jorgensen, B.,Kersch, P., Prendergast, R. Class Size: 15 SP 151, SP 152 or equivalent, permission SP section. Midterm and Final. Four compositions and rewrites. Film review. Daily assignments. This course is designed to refine the student's writing and reading skills in Spanish in preparation for entering upper-level Spanish courses. The class time and the assignments are divided between developing composition -writing skills, a variety of readings in

Department: Course: Title: Instructor: Prerequisites: Coursework: Description:	<ul> <li>Hispanic literature and culture, and some review of targeted grammatical structures. Class taught in Spanish. This course counts as upper-level writing for the SP major.</li> <li>Modern Languages &amp; Cultures Spanish SP 202</li> <li>Intro to Modern Spanish Literature</li> <li>Schaefer, C.</li> <li>SP 200 or SP 201 or permission of instructor.</li> <li>Several short papers; 2 exams in class</li> <li>Introduction to key works of 19th and 20th century Spanish literature, including short fiction, theater, and poetry. Emphasis on terms and techniques of literary analysis, and on the texts themselves within the changing culture of modern Spain. Class taught in Spanish.</li> </ul>	Title: Cross-listed: Instructor: Prerequisites: Coursework: Description:	Latin American Women Writers SP 460/CLT 111Q,226D,426D/WST 256 Jorgensen, B. Prerequisite: SP 200 or 201. Several short papers; final paper. Through study of texts (mostly novels) written by women from Latin America, we will ask broad questions concerning cultural contexts with respect to sexuality and gender, language, aesthetics, psychology, and social issues. The course will use materials from a variety of fields (literary and cultural theory, film studies, psychology, history, sociology, anthropology, feminist studies) in addition to the primary texts. All texts and discussions in English. Emphasis on collaborative research and progressive writing assignments. Campus visit by one of the authors planned.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Coursework: Description:	Modern Languages & Cultures Spanish SP 205 Spanish Culture SP 405 Kersch, P. SP 200 or equivalent. 2 in-class exams, 4 short papers, final project. This course explores the history and cultural development of modern Spain through a variety of media such as art, literature, and film. Although topics range from the early cultural life of the peninsula to the implications of the expulsion of Moslems and Jews, and from Spain's overseas empire to the Spanish Civil War, emphasis is placed on contemporary issues, such as autonomous regions, Basque and Catalan separatisms, immigration from Africa, membership in the European Union, terrorism, and the liberalizing of society.	Department: Course: Title: Instructor: Description:	Modern Languages & Cultures Spanish SP 282/482 Modern Spanish Poetry Ríos-Font Proximity to the United States ensures that first-time visitors to Mexico already have Hollywood versions of the country in their heads. However, the 'real' Mexico is a much more complex place than most movies allow. Archetypes of tough hombres, renegade outlaws, Stetson hats, dark and sultry women and strange beach bums lolling under the hot sun fall by the wayside quickly when Mexican productions initiate viewers into the grittier and much more varied realities of contemporary urban and rural Mexico. This course explores both historical antecedents and contemporary visions of the Mexican nation by directors such as the exiled Spanish director Luis Bunuel to Alejandro GonzalezAnalysis of selected works of poetry from the generation of 1927 to the present. May include readings by Juan
Department: Course: Title: Cross-listed: Instructor: Coursework: Description:	Modern Languages & Cultures Spanish SP 249 Topics in Spanish Literature and Culture SP 449 Prendergast, R. Several short papers; final project. Topics vary and may include Cervantes "novelas ejemplares," the visual arts and the Spanish Civil War, the works of Garcia Lorca, Spanish womens writing, and other topics that consider the relations between literature and other disciplines (film, philosophy, history, music, etc.).	Department: Course: Title: Cross-listed: Instructor: Description:	<ul> <li>Ramn Jimnez, Rafael Alberti, Jorge Guilln, Federico Garca Lorca, Luis Cernuda, Pedro etc.</li> <li>Modern Languages &amp; Cultures Spanish SP 282</li> <li>U.S. Latinos/Latinas</li> <li>SP 482/CLT 236B, 436B/WST 287, AAS 251</li> <li>Rodriguez, R. Class Size: 25</li> <li>This course introduces students to the emergent field of U.S. Latino/Latina writing and culture. Does the rich diversity of Latino communities in the U.Sstretching from Los Angeles and the southwest to Miami and New York via Texas, Chicago,</li> </ul>
Department: Course:	Modern Languages & Cultures Spanish SP 260		Minneapolis, and all stops in-betweenfrustrate or cancel any attempt to group their experiences under a single ethnic-racial

	term like "Latino/a"? What exactly is "the browning of the Midwest"? To what kind of gender, sexual, and racial codes are the inhabitants of these communities subjected? How do Latino/a narratives map the conflicted terrains of "utopias without borders," free-trade zones, diasporas, nomadic workforces, and even the Internet? Latinos, Latin Americans, immigrants, exiles, refugees, border peoples, raftersit is increasingly as difficult to define the legal status of individuals and communities as it is to talk about social, economic, and cultural identities. To be Latino	Course: Title: Cross-listed: Instructor: Description:	SP 482 U.S. Latinos/Latinas SP 282, CLT 236b,436b, WST 287, AAS251 Rodriguez, R. See SP 282 for course description <b>Music</b>
	in the United States is to participate in a unique process of cultural syncretism that some day may become a transformative template for the whole society. We will examine two among the many provocative questions for the twenty-first century; 1) what will be the effects of further Latinization of the American urban landscape? and 2) what does "buscando America" mean for different cultural groups and social classes? Readings and discussions include; Mike Davis, MAGICAL URBANISM; LATINOS REINVENT THE U.S. BIG CITY; Junot Diaz, DROWN; Sandra Cisneros, THE HOUSE ON MANGO STREET; and texts by Piri Thomas, Julia Alvarez, John Rechy,	Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Music MUR 101 Elements of Music Hanson J Class Size: 24 Inability to read music Mid-term, final, some quizzes A course for the student with no previous musical experience. Topics include notation, intervals, chords, and other basic concepts of tonal harmony, with application to the study of a wide range of styles including popular idioms.
Department: Course: Title:	Ana Castillo (THE GODDESS OF THE AMERICAS), Richard Rodriguez (DAYS OF OBLIGATION), Rodolfo Acuna, Helena Maria Viramontes, Gustavo Prez Firmat, Ilan Stavans, and others. Class taught in English. Modern Languages & Cultures - Spanish SP 405 Spanish Culture	Department: Course: Title: Instructor: Prerequisites: Description:	Music MUR 109 Musicianship I Literacy Skills Staff Class Size: 10 Prior experience in reading music notation in treble or bass clef. Extensive work with clefs, notation, intervals, and scales. Aural work through sight-singing and dictation, emphasizing melody and rhythm. Music-reading work emphasizes speed and fluency in recognizing structures in musical score. (1 credit)
Cross-listed: Instructor: Description: Department: Course: Title: Cross-listed: Instructor: Description:	SP 205 Schaefer, C. Please see SP 205 for Course Description. Modern Languages & Cultures Spanish SP 449 Topics in Spanish Literature and Culture SP 249 Prendergast, R. For course description see SP 249	Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Music MUR 112 Theory II Frank B,Titus J,Titus, J MuR 111 Mid-term, final Continuation of MUR 111. This course continues with chorale and keyboard-style harmony exercises, but introduces chromaticism, modulation, and analysis of form and phrase
Department: Course: Title: Cross-listed: Instructor: Description: Department:	Modern Languages & Cultures Spanish SP 460 Latin American Women Writers SP 260, CLT 111Q,226D, 426D, WST 256 Jorgensen, B. See Sp 260 for Course Description Modern Languages & Cultures Spanish	Department: Course: Title: Prerequisites: Description:	structure. Music MUR 113 Musicianship II MUR 109 or permission of theory coordinator Continuation of MUR 109. Also open to students who have some knowledge of treble and bass clefs, scales, and intervals. Concurrent enrollment in MUR 111 recommended. (1 credit)

Department: Course: Title: Instructor: Prerequisites: Description: Department: Course: Title:	Music MUR 114 Musicianship III Staff,Staff Class Size: 10 MUR 113 or permission of theory coordinator Continuation of MUR 113. Introduction to harmonic dictation and polyphonic sight-singing. Concurrent enrollment in MUR 112 recommended. (1 credit) Music MUR 115 Musicianship IV	Instructor: Prerequisites: Description:	Harman DClass Size: 80MUR 111Offers the student a glimpse into the world of standard orchestral performance as well as an overview of the metier of the orchestra conductor. Although some background in basic music theory is helpful, there are no technical musical prerequisites; only a love for and active interest in symphonic music and the process of its preparation and performance. In addition to class lectures, students will visit orchestral rehearsals off- and on-campus, view video tapes on reserve, enjoy guest lectures by local conductors, arts managers, and orchestral musicians, and attend orchestra concerts. (Spring only)
Instructor: Prerequisites: Description:	Staff Class Size: 10 MUR 114 or permission of theory coordinator Continuation of MUR 114. Concurrent enrollment in MUR 211 recommended. (1 credit)	Department: Course: Title: Instructor: Description:	Music MUR 125 History of Rock Music Covach, J <b>Class Size:</b> 30 This course will explore the history of rock music, emphasizing
Department: Course: Title: Instructor: Restrictions: Description:	Music MUR 116 Keyboard Skills I Frank, B. <b>Class Size:</b> 6 Permission of instructor required Introduces students to the keyboard as a vehicle for broader musical development. Covers basic piano technique, sight- reading of simple chord progressions, realization of figured bass, and basic improvisation. No prior keyboard training required.	Description	primarily the period between 1955 and 1990. The periods preceding (1900-1955) and following (1990- present) will be considered to a limited extent. Discussion and reading will focus mostly on the music, identifying a wide variety of rock-music styles within the historical context of the development, transformation, and interaction of pop styles of these decades in general. Issues of technological development, social, political, and cultural context, race and gender, and music-business practices will also be considered. No prerequisites. Knowledge of technical musical terms and an ability to read music are NOT
Department: Course: Title: Instructor: Prerequisites: Restrictions: Description:	Music MUR 117 Keyboard Skills II Frank, B. MUR 116 or permission of instructor. Permission of instructor required Continuation of MUR 116. Students who complete this course	Department: Course: Title: Instructor: Prerequisites:	required for this course. Music MUR 133 Musical Theater Workshop Kowalke K,Runzo D Permission of instructor (by audition) Class Size: 20
Department: Course: Title: Prerequisites: Restrictions: Description:	<ul> <li>Will fulfill the piano proficiency requirement for the music major.</li> <li>Music</li> <li>MUR 119</li> <li>Beginning Piano for Non-Music Majors II Class Size: 6</li> <li>MUR 118 or permission of instructor</li> <li>Permission of instructor required</li> <li>Continuation of MUR 118</li> </ul>	Restrictions: Description:	Permission of instructor required Intensive practical experience with scene-and-song work in the repertory of popular musical theater genres. Weekly rehearsals and critique sessions, with emphasis on characterization, technical skills, subtextual dimensions, and stylistic considerations. Some reading assignments, but emphasis on preparation for performance. Initial and concluding videotaping of "audition piece." Audition required.
Department: Course: Title:	Music MUR 120 Symphony and the Conductor	Department: Course: Title:	Music MUR 134 Style & Genre - Introduction to Music History

Instructor: Prerequisites: Coursework:	Luko, A Class Size: 25 MUR 110 or MUR 111 Short writing assignments, midterm, final, and miscellaneous assignments		performing Renaissance motets. All members of the undergraduate and graduate student body are welcome to audition for the ensemble. Auditions are held every semester.
Description:	An introduction to the history of Western classical music from the Middle Ages to the present, with emphasis on recognition of the chief stylistic characteristics and understanding of major genres of each period. (Spring only)	Department: Course: Title: Instructor: Prerequisites:	Music MUR 153 Symphony Orchestra Harman D Limited number of players. Admission by audition only.
Department:	Music MUR 150	Coursework:	One rehearsal per week; individual practice; at least two concerts
Course: Title: Instructor:	Women's Glee ClubConkling, S.Class Size: 40	<b>Description</b> :	each semester URSO (University of Rochester Symphony Orchestra) is a university-civic orchestra whose members are selected from both
Prerequisites: Restrictions: Coursework: Description:	Audition Permission of instructor required participation in all rehearsals, dress rehearsals, and concerts The women's glee club, a group of students, alumni, faculty, staff and community members, performs a wide variety of music. Joint concerts with the men's glee club and various instrumental groups within the college are regularly programmed. To join, simply register for the class. Auditions will be held during the first class.		UR student body and greater Rochester community. The orchestra has been a vital part of Rochester's cultural community for over 52 years. Membership is granted by the music director through auditions, which occur prior to the first scheduled rehearsal of each season. Other auditions may be held as needed throughout the season. For more info, see http://www.rochester.edu/College/MUR/ensembles/ ursourco/index.html.
Department: Course:	Music MUR 151	Department: Course:	Music MUR 154
Title:	Men's Glee Club	Title:	Chamber Orchestra
Instructor:	McAulliffe, H. Class Size: 40	Instructor:	Harman D Class Size: 40
Prerequisites: Coursework:	Audition Participation in all regular rehearsals, dress rehearsals, and concerts.	Prerequisites: Coursework:	Limited number of players. Admission by audition only. Two rehearsals per week; individual practice. At least four concerts per academic year. Also, off-campus performances in
Description:	The men's glee club continues the century-old tradition of singing at the University of Rochester. This group of students, faculty, staff and community members performs a wide repertoire of music. The men's and women's glee clubs regularly combine with various instrumental groups to perform large oratorio-style works. To join, simply register for the class. Auditions will be held during the first class.	Description:	local schools. Some touring (the orchestra has toured to Italy, Jamaica, Cayman Islands, Montreal, and Cleveland). URCO (University of Rochester Chamber Orchestra) draws its membership primarily from UR's River Campus student body. Membership is limited and is granted by the music director through competitive auditions, which occur prior to the first scheduled rehearsal of each season. Other auditions may be held as needed during the year. For more info:
Department: Course:	Music MUR 152 Chember Sincers		http://www.rochester.edu/College/MUR/ensembles/ursourco/ index.html.
Title: Instructor: Prerequisites: Restrictions: Coursework: Description:	Chamber Singers Georgieva, I. Class Size: 30 Audition Permission of instructor required Participate in all regular rehearsals, dress rehearsals, and concerts Chamber singers is a select 28- to 32-member ensemble which performs a cappella and chamber music from the 14th to 21st centuries and the group is as comfortable singing jazz as	Department: Course: Title: Instructor: Prerequisites: Exams:	Music MUR 155 Chamber Ensembles Harman D Class Size: 20 Advanced accomplishment on an instrument or voice; permission of the coordinator (an audition may be required). At least once concert appearance each semester

Coursework: Description:	One performance each semester. Students are encouraged to obtain and promote formal or informal performances on and off campus (retirement homes, hospitals, and other venues). The chamber music program facilitates formation and coaching of serious advanced chamber ensembles. One academic credit may be earned by registering and successfully completing all requirements listed under course work. Admission by permission of the coordinator.	
Department: Course: Title: Instructor: Prerequisites: Restrictions: Coursework: Description:	Music MUR 156 Wind Symphony Tiberio, W Class Size: 70 Admission by audition only Permission of instructor required One rehearsal per week; individual practice. At least four concerts per academic year. May also be some off-campus performances locally and on tour. Wind Symphony draws its membership primarily from the student body on River Campus and performs music of various styles, genres, and eras. Membership by audition. Attendance required at all rehearsals, dress rehearsals, and concerts, unless excused in advance by conductor.	
Department: Course: Title: Instructor: Prerequisites: Coursework: Description:	Music MUR 157 Jazz Ensemble Tiberio, W. Class Size: 17 Audition Rehearsals (2 per week), dress rehearsals, concerts The Jazz Ensemble is open by audition to all members of the University community. Performs a wide variety of music. Occasional guest artists and clinicians.	
Department: Course: Title: Instructor: Prerequisites: Coursework: Description:	Music MUR 158 Gospel Choir Holmes, J Class Size: 25 Strong sense of rhythm and pitch One rehearsal per week. Two concerts per semester. In addition, there may be off-campus performances in local colleges, churches, and other venues in the greater- Rochester community. The Gospel Choir performs a varied repertoire of sacred music spirituals, hymns, traditional and contemporary Gospel, music of the praise-and-worship genre. Students may register for credit or simply sing as choir participants. NOTE: There is no cap on enrollment in this ensemble.	

Department: Course: Title: Cross-listed: Instructor: Description:	Music MUR 159 Gamelan Ensemble 6ENS 215 Alajaji, S. See course description for 6ENS 215	
Department: Course:	Music MUR 160	
Title:	Advanced Piano Study	
Instructor:	Mihailovich, Z	Class Size: 5
<b>Prerequisites:</b>	Audition	
Restrictions:	Permission of instructor required	
Description:	Weekly one-hour private studio instr PA 160, with occasional master class coaching. Course is designed for adv their abilities for piano performance improving piano skills/technique and efficiently. Repertoire will be selected student's level and will include pieces characters.	es, group workshops and vanced students to develop by learning new repertoire, learning how to practice ed based on individual
Department:	Music	
Course:	MUR 161	
Title:	Broadcasting in the Digital Age	~ ~ ~
Instructor: Coursework:	Rogers S Discussion/seminar format with asso Assigned readings, practicum experie Frequent guest lectures. Laboratory v production equipment.	ences and project work.
Description:	A descriptive and critical analysis of media, broadcast practices and impac mass media institutions and role of m evaluation of news, government regu technologies, and audience dynamics and organizational aspects of the broa- provide a broad, rigorous orientation elements of media production as well reporting, writing, editing, delivery a media.	et. Historical development of hedia in society, including lation, economics, emerging a, as well as decision-making adcast industry. Designed to for understanding basic l as skills training in
Department: Course:	Music MUR 162	
Title:	Music and the Mind	
Cross-listed:	6TH 460, 1BCS 260, 1BCS 559	
Instructor:	Marvin, E.	Class Size: 20

Prerequisites: Description:	One semester of collegiate music theory for College music majors (MUR 111) See course description for 6TH 260.	nusic Dep Cou Title Inst	
Department: Course: Title: Prerequisites: Description:	Music MUR 202 Basic Jazz Theory & Improv II <b>Class Size:</b> 10 MUR 201 or permission of instructor Continuation of MUR 201. (Spring only) (2 credits)	Pres Res Des	
Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Music MUR 212 Theory IV Bailey-Shea M,Titus J <b>Class Size:</b> 20 MUR 211 Mid-term, final Continuation of MUR 211. Explores the theoretical and aesthetic principles of 20th-century music, especially in relation to earlier compositional procedures. Introduces basic post-tonal theory, including set-class analysis, transformational theory, and serial techniques. (Spring only)		
Department: Course: Title: Instructor: Prerequisites: Description:	Music MUR 214B Analysis of Rock Music Covach, J Class Size: 25 MUR 112 Many people love pop music for its simplicity, but this course will reveal that pop music can often be surprisingly complex the ways it projects structure and creates musical relationship Many dimensions of pop music will be analyzed, including harmony, melody, rhythm and meter, texture, form, recording technique, and text- music relationships.	in <b>Des</b>	
Department: Course: Title: Instructor: Prerequisites: Coursework: Description:	Music MUR 222 History of Western Music 1850 - Present Luko, A <b>Class Size:</b> 35 MUR 221 Midterm, final, research paper, and miscellaneous assignment Survey of Western classical music from ca. 1600 to the mid- eighteenth century, with emphasis on the stylistic, generic, and performance innovations of the period; opera receives special attention. Workshops investigate specific problems posted by notation, performance, ethics, and so on. (Spring only, offered alternate years) (5 credits)	Cou nd Des 1 y	

Music	
MUR 233	
Advanced Musical Theater Workshop	
Kowalke, K.,Runzo, D.	Class Size: 10
MUR 133 and permission of in	nstructors/Audition required
Permission of instructor requin	red for freshmen
Continuation of MUR 133	
	MUR 233 Advanced Musical Theater W Kowalke, K.,Runzo, D. MUR 133 and permission of i Permission of instructor requir

### **Naval Science**

epartment: ourse: itle: astructor: xams: escription:	Naval Science NAV 098 Navigation I Hays, Matthew, LT, USN 3 exams This course is a study of the internation inland rules of the nautical road, relation Theory, formation tactics and ship emp an introduction to naval operations and behavior and characteristics in maneuv ship handling, and afloat communication	ve motion, Vector-Analysis ployment. Also included is d operations analysis, ship vering, applied aspects of
epartment: ourse: itle: istructor: xams: escription:	Naval Science NAV 099 Amphibious Warfare Palmiter, T., Capt, USMC 2 exams, 1 Practical Exercise, 1 Preser This course examines the organization employed by the U.S. Navy and Marin amphibious operations. The course tra amphibious warfare from antiquity the Students become familiar with amphib and vehicles as they are used by today	, techniques and strategies the Corps in the conduct of acks the evolution of ough the 20th century. pious ships, landing craft
epartment: ourse: itle: istructor: xams: oursework: escription:	Naval Science NAV 249 Ship Systems II (Weapon Systems) Lyle, Michael, LT, USN 2 Exams, Various Quizzes Homework, Final Project This course investigates the theories at weapons systems. The student explore target detection (using RADAR and SC design, guidance and control principles launching, fire control, and mine warfa utilized during the course to aid the stu concepts of Command, Control, and C	es the fundamentals of ONAR), warhead and fuse s, propulsion and are. Case studies are ident in understanding the

starting point for discussions on leadership and ethics. Current world events and historical issues are discussed as applicable.

Department: Course:	Naval Science NAV 250	
Title:	Sea Power and Maritime Affairs	
Instructor:	White, John, LT, USNClass Size: 40	
Exams:	2 exams, quizzes, 1 paper	
Description:	The course surveys U.S. naval history from the American Revolution to the present with emphasis on major developments. Included is a discussion of the geopolitical theory of Mahan, applied to the current maritime strategies of the United States. The method of instruction will include lecture, discussion and films. Two texts will be used in conjunction with handouts.	
Department:	Naval Science	
Course:	NAV 266	
Title:	Leadership and Ethics	
Instructor:	Borden, Steven, Capt., USN Class Size: 30	
Exams:	Two exams, 1 paper, 2-4 short essays	
Description:	This course explores the moral, ethical, and legal issues facing	
	leaders in industry, society, and the military while reinforcing the	
	key underlying principles of leadership. Case studies are used in a seminar format to underscore the issues. The overall objective	

of this course is to develop critical thinking and reasoning skills in leadership situations, particularly those that pose a moral or ethical dilemma to the individual.

#### Neuroscience

Department:	Neuroscience	
Course:	NSC 203W	
Title:	Laboratory in Neurobiology	
<b>Cross-listed:</b>	BCS 203	
Instructor:	Nordeen, K Class Size: 16/section	
Prerequisites:	NSC 201, AND NSC 201L, AND BCS 200	
<b>Restrictions:</b>	Permission of instructor required	
Exams:	Quizzes, practica, take-home exercises and 3-4 papers, written in journal format	
Description:	Introduces the various methods used in neurobiological research. Covers anatomical, behavioral, chemical, and physiological approaches to studying neural organization and function and concludes with a research project that extends over a period of five weeks.	
Department:	Neuroscience	

Title: Neuropsychology BCS/PSY 242 **Cross-listed:** Class Size: 35 **Instructor:** Como, P. NSC 201 (BCS 240) or BCS 110 or permission of instructor. **Prerequisites: Description:** Examines clinical neuropsychology, which bridges neurology, neuroscience, and clinical psychology. Covers history of clinical neuropsychology, principles of neuropsychological assessment, and the interpretation of cognition and behavior as they relate to brain dysfunction. Considers specific neurological syndromes including neurodegenerative, cerebrovascular, toxic, and memory disorders; epilepsy; head trauma; toxic disorders; infectious processes; pediatric neuropsychology; psychiatric syndromes; and forensic neuropsychology. Patient presentations (videotape and in-person interviews) supplement lectures. **Department:** Neuroscience Course: **NSC 244** Neuroethology Title: **Instructor:** Holtzman, D.

Prerequisites:NSC 201 (BCS 240) or permission of instructorDescription:Explores the neural basis of naturally occurring animal behaviors.<br/>Emphasizes how information is integrated from interactions<br/>between molecules, cells, and groups of cells, all of which are<br/>necessary to produce behavior. Considers how hormones, neural<br/>development, anatomy, physiology, and evolution lead to<br/>behaviors such as orientation, communication, feeding, and<br/>reproduction.

Department:	Neuroscience		
Course:	NSC 245		
Title:	Sensory & Motor Neuroscience		
Cross-listed:	BCS 245/CVS 245		
Instructor:	DeAngelis, G. Class Size: 30		
Prerequisites:	NSC 201 (BCS 240), Basic Neurobiology, or equivalent		
	background with instructor's permission.		
Exams:	Two mid-terms and a final.		
Coursework:	Lectures and reading from a text and selected journal articles		
Description:	Focuses on how single neurons and populations of neurons		
	represent sensory information, how sensory signals are		
	transformed and decoded to mediate perception, and how		
	perceptual signals are converted into neural commands to initiate		
	actions. Explores how simple behaviors (such as detection and		
	discrimination) can be quantified and explained in terms of neural		
	activity. Introduces students to quantitative approaches for		
	linking neural activity to perception and decision-making.		
	Emphasizes studies of the visual, oculomotor, and somatosensory		

Course:

e: NSC 242

systems, with some attention to the auditory and vestibular systems as well.

action, personal identity, the existence of a supreme being, and the possibility of knowledge.

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Exams: Coursework: Description:	Neuroscience NSC 249 Developmental Neurobiology BCS 249 Nordeen, E. <b>Class Size:</b> 30 NSC 201 (BCS 240) or equivalent 2-3 exams during the semester and a final. Lectures, reading assigned from the research literature. Typically, 3 exams are given and students have the opportunity to prepare a paper on a research topic of their choice. Advanced treatment of the development of the nervous system, including the nature/nurture issue and factors that influence the development of neural organization and function. Topics include	Department: Course: Title: Instructor: Exams: Description:	Philosophy PHL 102 Ethics Barrios, E. Class Size: 100 Three in class tests, not cumulative final This course is an introduction to basic issues in the philosophical investigation of ethics. Topics include general theories of the nature of right and wrong and theories of the funtions of ethical language. Classes are in the lecture and question format. The texts are Introductory Ethics by Fred Feldman, and an anthology of brief readings on some of our topics. Assignments are readings from these texts.
	the production, migration, differentiation and survival of neurons; functional specialization of neural regions; axonal navigation; target mapping. Compares and contrasts developmental plasticity with forms of neural plasticity exhibited in adults.	Department: Course: Title: Instructor: Description:	Philosophy PHL 103A Moral Problems Holmes, R. <b>Class Size:</b> 100 An analysis of contemporary issues, including hunger, world
Department: Course: Title: Instructor:	Neuroscience NSC 302 Senior Seminar in Neuroscience Holtzman, D.		poverty, abortion, sexual morality, animal rights, environmental ethics, and the death penalty. 103A is not a prerequisite for 103B.
Prerequisites: Restrictions: Exams: Description:	Senior Neuroscience concentrators. Open only to senior majors or by permission of instructor No exams, oral and written reports To be taken for one competer (2 and its). Emphasizes	Department: Course: Title: Instructory	Philosophy PHL 110 Introductory Logic Glick, J. Class Size: 30
Description:	To be taken for one semester (2 credits). Emphasizes "Neuroscience as a scientific career." Students read and lead discussions of issues of general professional concern: peer review and the evaluation of research; the function of federal research agencies; science education and teaching; and scientific ethics, and biomedical research and neuroscience in the news. Students also prepare brief reviews of current research problems for class presentation, discussion and critique.	Instructor: Exams: Description:	Glick, J. Class Size: 30 Four mid-terms and a final exam. Philosophy 110 is a first course in symbolic logic through first order quantification theory. It treats deductive inference through the mechanism of an artifical language; the language is rigorously defined, and students learn to translate English arguments into this artifical language, to construct proofs in this language using a rigorously defined stock of inference rules, and to use models to show the invalidity of arguments.
Department: Course: Title: Instructor: Exams: Description:	Philosophy Philosophy PHL 101 Introduction to Philosophy Conee, E. Class Size: 100 Three in-class short essay tests The course is an introductory investigation of a few main	Department: Course: Title: Instructor: Description:	Philosophy PHL 118 Business Ethics Bennett, J. <b>Class Size:</b> 30 This course will focus on selected ethical topics issues related to business in order to explore fundamental principles of business morality. We will begin by looking at the fundamental question of moral responsibility of business corporations. Then we will

others, including truth in advertising, sales practices, bribery, environmental issues, and economic justice. Then we will look at issues that arise within business firms, including the nature of the employment contract, whistle-blowing, affirmative action, sexual harassment, and the organization of the corporation. Student presentations and class discussion will be important parts of the course.

Department: Course: Title: Instructor: Restrictions: Description:	Philosophy PHL 145Q Minds and Machines Ney, A. <b>Class Size:</b> 21 Open to freshmen only What is it to have a mind? Does the mind have boundaries (for example, the boundaries of the brain)? How could creatures like us exhibit such a phenomenon as consciousness? Could we build a robot that was able to experience the world in the same way we do? This course will introduce students to the way that philosophers think about the mind, harnessing contemporary work in brain and cognitive science to help us answer these questions. No prior background in either philosophy or cognitive science is presupposed. This course will be largely discussion- oriented.
Department: Course: Title: Instructor: Coursework: Description:	Philosophy PHL 152 Science and Reason Weslake, B. Two essays and one presentation. This course is an introduction to the epistemological side of philosophy of science, focusing firstly on questions concerning the nature of science, and secondly on questions at the intersection of science and religion. Is scientific knowledge different in principle from other forms of knowledge? Are there criteria which can be used to distinguish scientific knowledge from other forms of knowledge? Is there such a thing as the scientific method? Can the history of science be seen as an ever- increasing advance of knowledge? After addressing these questions, we will turn to questions about the relation of science to values and religion: What role do values play in science? Is there a conflict between science and religion? These questions will be addressed in part via the issue of intelligent design in biology: Is intelligent design science? Should it be taught alongside evolutionary biology?
Department:	Philosophy

Title: Philosophical Foundations of Feminism **Cross-listed:** WST 205F. WST 205W **Instructor:** Modrak, D. Class Size: 40 Exams: Mid-term exam, final paper or exam. **Description:** The study of contemporary feminist theory. The course considers the conception of women expressed through our practices, laws, theories and literature. Is this conception that of an inessential Other as one philosopher has argued? Other topics to be discussed include: equality and equal rights, sex roles and gender specific language, power relations and self-determination, marriage and maternity. **Department:** Philosophy Course: **PHL 202** Title: History of Modern Philosophy Class Size: 25 Instructor: Meerbote, R. Exams: There may or may not be a final exam. There may be some exams during term. A number of short papers will be assigned. **Coursework:** The course will develop the main philosophical responses of the **Description:** 17th and 18th centuries (other than Kant's) to the new science and scientific methodology found, for example, in Galileo. We'll start out by reading some Galileo and then go on to study Descartes' universal methodology. Motion, space and time, causality, and the mind-body problem (including the problem of perception) will also turn out to be important topics. The next part of the course will consist of Leibniz and of Newton and Locke, to be followed by Berkeley and Hume. The problems listed above will continue to occupy center stage. There will be both lectures and discussion meetings. Texts: Galileo, Discoveries and Opinions (tr. S. Drake; Doubleday); Descartes, Philosophical Writings (tr. J. Cottingham; Cambridge); From Descartes to Locke (ed. Smith & Grene; Phoenix); Berkeley, Hume, and Kant (ed. Smith & Grene; Phoenix). **Department:** Philosophy Course: **PHL 220** Title: Recent Ethical Theory **Cross-listed:** PHL 220/PHL 420 Class Size: 30 Instructor: Conee, E.

> One previous course in ethics. Two in-class short essay answer tests and one 5-8 page paper The course will be a study of the work of major twentieth century philosophers on fundamental questions in ethics, such as: What makes some acts morally right? How could we ever know what has value and what we morally ought to do? Are there any universally applicable ethical norms, or is morality subjective or

**Prerequisites:** 

**Description:** 

Exams:

Department: Course:

PHL 171

otherwise relativized? Reading from recent and contemporary works.

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Exams: Coursework: Description:	Philosophy PHL 223 Social and Political Philosophy PHL 223W, PHL 423 Curren, R. Class Size: One previous course in philosophy. Mid-term and final Two short papers This course will discuss a number of fundamental issues pertaining to the nature and justification of government: the arguments for government, conflict and revolution, relations between church and state, the moral relations of individuals to government, concepts of individual freedom, the arguments for democracy, and justice in the production and distribution of goods. Students will read from the works of several of the most important philosophers who have addressed these questions. This course may be taken for upper-level writing credit.
Department: Course: Title: Instructor:	Philosophy PHL 225 Ethical Decisions in Medicine Dees, R.
Exams: Coursework:	Final examination You must sign up for one of the four discussion sections as well as the lecture to enroll in the class. You will be required to write three short papers.
<b>Description:</b>	Medicine now produces some of the most troubling ethical questions that our society faces. We are now confronted with extremely premature infants, elderly people incapacitated by Alzheimer's Disease, and others have sunk into permanent vegetative state. We can now diagnose horrible diseases with genetic testing, we have a myriad of options of reproduction if the old-fashioned way is not possible, and we now have the option to replace the failing organs and even to enhance our mental and physical abilities. Lying behind all these issues are deep questions about social justice in the allocation of resources of health care. In this class, we will examine some of these ethical controversies, both in lectures and in small groups in which students will have more opportunity to present their own views and explore those of others. The class will meet for 50 minutes twice a week in the TR 9:40-10:55 slot, and then each student should attend one of the four discussion sections (two will be held R afternoon, two on Friday morning).

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Philosophy PHL 242 Metaphysics PHL 442 Ney, A. <b>Class Size:</b> 40 One previous course in philosophy. The course will investigate issues in contemporary metaphysics, including questions about the existence and persistence conditions of abstract and material objects; the nature of space and time; the possibility of time travel; and the status of quantum mechanics. No prior courses in science are required.	
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Exams: Description:	Philosophy PHL 247 Philosophy of Language PHL 247W, PHL 447 Barrios, E. <b>Class Size:</b> 30 1 previous course in philosophy; PHL 110 is recommended Mid-term exam, three papers, a final exam This course is about meaning. Speakers of natural language are capable of understanding sentences they've never heard before, so somehow they must derive the meaning of a sentence from the meanings of the words in that sentence. But what is the meaning of a word, and what are those rules? Readings will be from figures such as Frege, Russell, Quine, Kripke and Putnam. This course may be taken for upper level writing credit with permission of instructor.	
Department: Course: Title: Cross-listed: Instructor: Coursework: Description:	Philosophy PHL 252 Philosophy of Science PHL 252W, PHL 452 Weslake, B. Class Size: 35 Two essays and one presentation. This is a survey course in general philosophy of science, focusing on metaphysical questions concerning the nature of science. Representative questions include: Must a scientific theory work because the entities it posits exist in the real world? Or is there some other way of explaining the success of science? Should we believe our best current scientific theories even though all of our past theories have been false? How should we understand scientific laws? Do the laws of nature govern the world or simply encapsulate some interesting patterns in the world? What is the relationship between lower level and higher level laws, and between lower level and higher level scientific theories? Do scientific explanations work because they tell us about laws, or	

because they tell us about causes, or for some other reason? The course may taken for upper level writing credit.

Department: Course: Title: Cross-listed: Instructor: Description: Department:	Philosophy PHL 260 Topics in Philosophical Theology PHL 260/460, REL 291 Wierenga, E. Class Size: 30 See Religion and Classics, REL 291. Philosophy		
Course:	PHL 300		
Title:	Seminar for Majors		
Instructor:	Feldman, R. Class Size: 20		
Prerequisites:	Open to philosophy majors and minors only, and others with permission of the instructor.		
Coursework:	Approximately eight short written commentaries on the readings, two papers of 5-10 pages during the semester, and a final paper at the end of the semester. Participation in class discussion.		
Description:	This course is intended to prepare students to do upper level work in philosophy. It also serves as the main writing course for philosophy majors. The course will focus on three diverse problems in contemporary philosophy. For each unit, there will be some introductory lectures to prepare students to read recent influential writings on the topic. The remaining class periods will be devoted to discussion of those articles and to discussion of students' papers on those articles.		
Department:	Philosophy		
Course:	PHL 308		
Title:	Morality and War		
Instructor:	Holmes, R. Class Size: 12		
Prerequisites:	One previous course in philosophy.		
Exams: Description:	One short paper, one term paper. No exams. This course will be conducted as a seminar. It will undertake a		
	critical examination of political realism, the just-war theory, and the problem of the killing of innocents in wartime.		
Department:	Philosophy		
Course:	PHL 396		
Title:	Teaching Internship		
Instructor:	Feldman, R. Class Size: 10		
Restrictions:	Permission of instructor required		
Description:	Interns work with elementary school children, usually in the fourth and fifth grade, on thinking and writing strategies. Specific projects taken up in classes include organizing debates among students on contemporary issues, writing argumentative essays,		

and analyzing the persuasive techniques used in advertising. Interns spend several hours per week in their classes and attend biweekly internship meetings. Meetings will be scheduled at a mutually convenient time. Academic credit for the internship is based on a satisfactory report from the supervising teacher, participation in internship meetings, and a final paper which describes and reflects on the intern's classroom activities and examines the connections between those activities and selected readings.

#### **Physics and Astronomy**

Department: Course: Title: Instructor: Exams: Coursework: Description:	Physics and Astronomy PHY 100 The Nature of the Physical World Garcia-Bellido, A. Two in-class exams and one final Weekly homework assignments will be given. This is an introductory course designed especially for students in the humanities and other non-scientific fields who are interested in learning something about the physical world in perspective. Topics include the scale of the universe from galaxies to atoms and quarks; the fundamental forces of nature, motion and relativity, energy, electromagnetism and its everyday applications, the structure of matter, atoms, light and quantum mechanics. There are no prerequisites, no background knowledge is required and the material will be presented essentially without mathematics. Substantial use will be made of demonstrations and movies.	
Department: Course: Title: Instructor: Prerequisites: Coursework: Description:	Physics and Astronomy PHY 114 General Physics II Drr, L. Class Size: 200 Phy 113, MTH 142-43, or 162 (may be taken concurrently) Five three-hour laboratories are required, as are weekly workshop or recitations. The workshop or recitation are determined by the instructor. Second semester of a two-semester sequence suitable for students in the life of sciences. Electricity and magnetism, optics, lectromagnetic waves, and modern physics (introduction to elativity, quantum physics, etc.). Students must register for a PHY-114 laboratory during course registration. In addition to the two 75-minute lectures each week, one approximate two-hour ind forty-minute laboratory every other week are required. Differed in the Spring and Summer Session II (B-6).	

Department: Course: Title: Instructor: Prerequisites: Coursework: Description:	Physics and Astronomy PHY 121 Mechanics Cline, D. Class Size: 200 MTH 141 or 161 (may be taken concurrently); knowledge of introductory calculus (simple integration and differentiation) Five three-hour laboratories are required, as are weekly workshop or recitations. First course of a three-semester sequence for all students intending to major in physics, other physical sciences and engineering. Motion in one and two dimensions, Newton's Laws, work and energy, conservation of energy, system of particles, rotations, oscillations, gravity, thermodynamics. In addition to Two 75-minutes lectures each week, One workshop or recitation each week and one approximate two-hour and forty-minute every other week is required. Students must register for laboratory and workshop or during course registration. This course is offered in Spring and Summer session (A-6).	Title: Instructor: Prerequisites: Restrictions: Coursework: Description:	<ul> <li>Waves and Modern Physics (Honors)</li> <li>Eberly, J.</li> <li>PHY 141 and MTH 162 or MTH 172 (may be taken concurrently).</li> <li>Open to freshmen only</li> <li>Five three-hour laboratories, as are weekly workshop or recitations. The times of the workshop or recitation are determined by the instructor.</li> <li>Second course of a three-semester honors sequence (PHY 141, 143, 142), recommended for prospective departmental concentrators and other science or engineering students with a strong interest in physics or mathematics. Topics are the same as those in PHY 123 but in greater depth. Introductory examinations of Bohr's atomic models, de Broglie waves, momentum and energy quantization, Heisenberg's uncertainty relation, Schrodinger's cat, electron spon, photon interference, and Bell's inequalities; as well as, selected applications to solid-state, nuclear, particle, and astrophysics. Student must register for laboratory and workshop during course registration. In addition to Two 75-minute lectures each week, one workshop or recitation each week and one approximate two-hour and forty-minute</li> </ul>
Course:	PHY 123		laboratory every other week are required.
Title:	Waves and Modern Physics		
Instructor:	Eberly, J. PHY 121- PHY 122 MTH 163 or or 165 (may be taken	Department: Course:	Physics and Astronomy PHY 181
Prerequisites:	concurrently).	Title:	Mechanics Laboratory
Coursework:	Five three-hour laboratories are required, as are weekly workshop	Instructor:	Demina R.
Coursework	or recitation.	Prerequisites:	For transfer students that have taken the equivalent of PHY 113
<b>Description:</b>	Third semester of a three-course sequence for all students	1	or PHY 121, but have not taken to laboratories.
-	intending to major in physics, other physical sciences, and engineering. Wave motion, physical optics, special relativity, photoelectric effect, Compton effect, x-rays, wave properties of particles. Schrodinger's equation applied to a particle in a box, penetration of a barrier, the hydrogen atom, the harmonic oscillator, the uncertainty principle, Rutherford scattering, the time dependent Schrodinger equation and radioactive transitions, many electron atoms and molecules, statistical mechanics, selected topics in solid state physics, nuclear physics, and particle	Description: Department: Course: Title:	Laboratories experiments in Mechanics, statistics and measurement, acceleration of gravity, conservation of energy and momentum, moment of inertia, oscillations, and mechanical equivalent of heat. Students must contact physlabs@pas.rochester.edu to signup for a laboratory section. Physics and Astronomy PHY 218 Electricity and Magnetism II
Department:	<ul> <li>physics. In addition to Two 75-minutes lectures each week, one workshop or recitation each week and one approximate two-hour and forty-minute laboratory every other week are required.</li> <li>Students must register for laboratory and workshop or recitation during course registration. Course offered in the Spring and Summer session II (B-6).</li> <li>Physics and Astronomy</li> </ul>	Instructor: Prerequisites: Description:	Thorndike, E. PHY 217. Electromagnetic induction; displacement current; Maxwell's equations; the wave equation; plane wave guides; Poynting vector; reflection and refraction; radiation; waveguides; transmission lines; propagation of light; radiation by charged particles; relativistic formulation of Maxwell's equations.
Course:	PHY 143	Department:	Physics and Astronomy

Course: Title: Instructor: Prerequisites: Description:	PHY 227 Thermodynamics and Statistical Mechanics Gao, Y. <b>Class Size:</b> 30 MTH 281 or ME 201 (may be taken concurrently); PHY 237 Multiplicity of physical states, equilibrium entropy and temperature, Boltzmann factor and partition function, statistical approach to free energy, chemical potential, distribution functions for ideal classical and quantum gases, applications to chemical reactions, thermal engines, equations of state, and phase transitions.
Department: Course: Title: Instructor: Prerequisites: Description:	Physics and Astronomy PHY 237 Quantum Mechanics of Physical Systems Wolfs, F. Prerequisite: PHY 122/PHY 142, PHY 123/PHY 143, and MTH 165/174 (may be taken concurrently). Introduction to quantum mechanics with emphasis on applications to physical systems. Includes Schroedinger theory, solutions to the one-dimentional Schroedinger equation, the hydrogen atom, and selected applications from atomic and molecular physics, quantum statistics, lasers, solids, nuclei, and elementary particles.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Physics and Astronomy PHY 246 Quantum Mechanics Hagen, C. PHY 237; MTH 281 (or close equivalent) Formalism of quantum theory with more advanced applications that PHY237. Includes postulates of Quantum Mechanics; function spaces; Hermitian operators, completeness of basis sets; super- positon, compatible observables, conservation theorems, operations in abstract vector space, spin and angular momentum matrices; addition of angular momentum; perturbation theory, and simple scattering theory.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Physics and Astronomy PHY 252 Biomedical Ultrasound BME 251 Dalecki, D. MTH 163, MTH 164, and PHY 122 or PHY 142 or permission of instructor. This course provides analyses of the physical bases for the use of high-frequency sound in medicine (diagnosis, therapy and

surgery) and biology. Topics include acoustic interactions of ultrasound with gas bodies (acoustic cavitation and contrast agents), thermal and non-thermal biological effects of ultrasound, ultrsonography, dosimetry, hyperthermia and lithotripsy.

Department: Course: Title: Instructor: Description:	Physics and Astronomy PHY 261 Interference and Diffraction Fienup, J. Cross-listed with OPT 261 - see Department of Optical Engineering section for course information
Department: Course: Title: Instructor: Description:	Physics and Astronomy PHY 262 Electromagnetic Theory Berger, A. Cross-listed with OPT 262 - see Department of Optical Engineering section for course information.
Department: Course: Title: Restrictions: Description:	Physics & Astronomy PHY 301 Seminar in the Physics of Medical Imaging Permission of instructor required This seminar course includes the basic physical theory, mathematics, and instrumentation of medical imaging. he course covers the basic properties of matter, radiation, radioactive decay, X-ray systems, digital imaging systems, nuclear medicine systems, radiobiology, ultrasound systems, and magnetic resonance. (same material, different problems Physics Students). (Cross-listed with PHY 421). This 2 credit course is offered to Radiology Residents and is restricted to Physics students. The course is cross-listed with Physics for students who plan to earn a Certificate in Biological or Medical Physics, or students who are in the BS/MS Physics 3-2 program (and plan to do an MS thesis in Medical Physics). The course starts in the latter half of the spring semester (and may run beyond the end of classes). Lectures are typically given during noon-1pm.
Department: Course: Title: Instructor: Prerequisites: Description:	Physics & Astronomy PHY 321A Condensed Matter Physics I Teitel, S. PHY 121-123 or PHY 141-143, MTH 161-164. Introduction to computer control, interfacing, and data acquisition in the laboratory. Topics include introduction to digital electronics, interface devices, data conversion devices, A/D converters, I/O ports, interface standards, micro-processor basics,

introduction to P-Basic, and application of microprocessor with PC. This is a 2-credit course held the first six weeks of he semester.

Department: Course: Title: Instructor: Restrictions: Coursework: Description:	Physics & Astronomy PHY 328 Physics of Radiobiology II Keng, P. Permission of instructor required One lecture per week is presented along with assignments and three exams during the academic year. This course 2 credit course evaluates the effects of radiation in mammalian cell systems ranging from cell cultures to whole animals and is the second half of Radiobiology I. Please note the course is offered at the same time as the Medical Center's course schedule for Spring and will end approximately in March. Emphasis is on the application of radiobiological principles to radiotherapy practices in the clinical treatment of cancer. Topics include: Mechanism of radiation damage and repair, cell cycle effects, influence of oxygen, and tumor versus normal tissue effects of radiation.(Cross-listed with PHY428). One lecture per week is presented along with assignments and three exams during the academic year. (Course offered every other year, alternates with PHY326/PHY426).
Department: Course:	Physics and Astronomy PHY 387
Title:	Teaching Internship II, Pedagogy and Group Leadership
Instructor:	Manly
Prerequisites:	PHY 386 or proof of attended the two-day teaching internship training program.
Description:	This course is designed as the second follow-up course for an experienced Workshop Leader, Laboratory or Recitation Teaching Intern who plans to use this experience to fulfill part of the requirements for the Citation for achievement in College Leadership. The TI is expected to attend the weekly Leader Training meeting which offers specialized support and feedback, as well as training/seminars to develop leadership skills, foster ongoing communication among faculty members and TIs, and to provide an environment for review of study group related issues. Students spend the semester teaching one workshop, lab or recitation section during the Spring semester introductory physics courses: PHY 114, PHY 121, PHY143. Additional requirements are: Attendance of weekly content meetings with supervising professor, giving feedback to other leaders in a constructive evaluation process and a project designed in concert with the

supervising professor and the PHY 387 instructor. (Course is similar to CAS 355).

Department: Course: Title: Instructor: Prerequisites: Restrictions: Description:	Physics and Astronomy PHY 389 Teaching Internship II Program Auchincloss, P.,Orr, L.,Bigelow, N. <b>Class Size:</b> 30 Must have taken a physics or astronomy sequence Special application required Student must apply by application by contacting Connie Jones at 5-5306 A student typically spends one or two semesters teaching an introductory physics laboratory or recitation section, working with a graduate TA. Faculty supervision is augmented by training, ongoing teaching seminars, and a constructive evaluation process.	
Department:	Physics and Astronomy	
Course:	PHY 390	
Title:	Supervised Teaching	
Instructor:	Manly, S., Demina, R., Bigelow, N	
Prerequisites:	Permission of the instructor and department	
Description:	Two credit course. Introduction to the techniques of physics instruction, active observation, and participation in the teaching of an undergraduate course under the guidance of a faculty member.	

# **Physics and Astronomy -- Astronomy**

Department:	Physics and Astronomy Astronomy		
Course:	AST 142		
Title:	Elementary Astrophysics		
Instructor:	Quillen, A.		
Prerequisites:	PHY 121, 122 (may be taken concurrently) MTH 142, MTH 161,		
	162, AST 111 recommended.		
Exams:	Midterm and final exams.		
Coursework:	Laboratory required. Weekly homework.		
Description:	The techniques learned in the first year of physics and math are applied in this course to study the stars, interstellar matter, galaxies, and cosmology. A laboratory is included and required; it involves experiments in the lab and with telescopes, on spectroscopy, distance determination, and imaging of some celestial objects discussed in the lecture portion of the course. Textbooks typically used are: "The Physical Universe," by F. Shu and "Astronomy: A physical Perspective," by M. Kutner.		

Department:	Physics and Astronomy
Course:	AST 242

Title:	Astrophysics II	
Instructor:	Frank, A.	Class Size: open
Prerequisites:	PHY 237 (may be taken concurrently); familiarity with the subject matter of AST 142 and/or AST 111 is advised	
<b>Restrictions:</b>	Not open to freshmen and sophomores	
Description:	This introduction to the physical processes in astronomical objects is taken primarily by juniors and seniors majoring in physics, physics and astronomy, optics, or mathematics. Topics discussed include physical processes in the interstellar medium; star formation and molecular clouds; the structure of galaxies; and interaction to cosmology. Offered Spring, even years only.	

#### **Political Science**

Department:	Political Science
Course:	PSC 101
Title:	Introduction to Comparative Politics
Instructor:	Meguid, B.
<b>Restrictions:</b>	Open to freshmen only
Description:	This course will introduce students to comparative politics the study of domestic political institutions, processes, and outcomes across and within countries. These important themes and concepts of contemporary comparative politics include the vibrancy of democracy, the centrality of political and electoral institutions, the possibility of revolution and the power of ethnicity. Cases will be drawn from different countries and historical periods to give students a grounding in the method of comparative analysis. This course is recommended for those thinking about a major, minor, or cluster in Political Science and others who are simply interested in learning more about the politics of developed and developing countries. It is a required course for the International Relations major.
Department:	Political Science
Course:	PSC 105
Title:	Introduction to American Politics
Instructor:	Sinclair-Chapman, V.
Description:	This course will introduce students to the foundations of American government. Students will examine important political institutions and the linkage mechanisms that connect institutions, political actors, and ordinary American citizens. This course is appropriate for majors and non-majors with an interest in understanding how and why the American political system works as it does. Students will be graded on two midterms, a comprehensive final exam, and short writing assignments.
-	

**Political Science** 

**Department:** 

Course: Title: Instructor: Description: PSC 106 Introduction to International Relations Goemans, H. This course provides students with the b

This course provides students with the background and conceptual tools they need to understand contemporary international relations. The course will introduce students to the wide range of issues that make up the study of international relations, including the workings of the state system, the causes of international conflict and violence, and international economic relations. Students will be introduced to the literature in a broad way, to make them familiar with the main theoretical traditions in the field. Students will be asked, as much as possible, to read original texts, rather than a textbook. Time permitting, we will also examine topics of particular current interest, such as the evolving nature of power in the post-Cold War environment as well as special global challenges like nation-building and the proliferation of weapons of mass destruction.

Department: Course: Title: Instructor: Description:	Political Science PSC 201 Political Inquiry Clarke, K. This course introduces students to data analysis in political science. We begin by learning how to describe political data, and then move on to making inferences about political phenomena. Along the way, we address the "science" in political science and the development of hypotheses about political behavior. We will read published research from political science journals that use the techniques we discuss in class. No mathematical knowledge beyond high school algebra is assumed. PSC 201 satisfies the Techniques of Analysis requirement for undergraduate majors and minors in Political Science.
Department: Course: Title: Instructor: Restrictions: Description:	Political Science PSC 202 Argument in Political Science Jordan, S. Permission of instructor required for freshmen Students generally take PSC 202 in their sophomore year, but the course is also open to junior and seniors. The course introduces students to the questions, concepts, and analytical approaches of political scientists.
Department: Course: Title: Instructor:	Political Science PSC 203 Survey Research Methods Peress, M.

Restrictions: Description:	Permission of instructor required for freshmen This course offers an introduction to the understanding of politics through data analysis, with particular emphasis on surveys of the mass public. We will study selecting a sample, designing and conducting a survey, interpreting the results of a survey, correcting for bias in a survey, and measuring the accuracy of a survey. This semester, we will pay special attention to the accuracy of public opinion polling preceding the 2008 primary and Presidential elections. PSC 203 satisfies the Techniques of Analysis requirement for undergraduate majors and minors in political science.	Departr Course:
Department: Course: Title: Instructor: Description:	Political Science PSC 212 The Supreme Court in U.S. History Seligman, J. This seminar will study leading constitutional law cases decided by the United States Supreme Court and their impact on the evolution of the Court, the balance of powers among our three governmental branches, relations between the federal government and the states, and individual express and implied rights. The seminar is intended to introduce students to legal reasoning and will make use of casebook and teaching methods typical of law schools.	Title: Instruct Restrict Descrip
Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Political Science PSC 217 Politics and Mass Media Regenstreif, P. PSC 101, 103, 105, or PSC 202 Exam toward end of course This course analyzes how public opinion is formed through the media. It also examines the interaction of public opinion, mass media, and political leadership. Lecturing will take up the first segment of class, followed by discussion. In several of the sessions an entire campaign will be analyzed, with commercials produced for the candidates shown, followed by discussion and comment. Students will be asked to watch TV, read popular press, etc., for the class discussion.	Departn Course: Title: Instruct Exams: Descrip
Department: Course: Title: Instructor: Description:	Political Science PSC 238 Business and Politics Primo, D. In this course we will use the tools of political science and economics to study how corporations affect and are affected by politics. Each meeting will feature a general topic as well as in-	Departr Course: Title: Cross-li Instruct

depth analysis of cases related to that topic. We will cover a broad range of issues affecting the business world, including regulation, lawmaking, campaign finance, the mass media, interest group mobilization, corporate social responsibility, and ethics. Cases will be drawn from areas such as antitrust, transportation safety, international trade, the environment, and the internet. Course meetings will generally begin with a short lecture followed by extensive class discussion.

epartment: ourse: tle: structor: estrictions: escription:	Political Science PSC 240 Criminal Procedures & Constitutional Principles Fiandach, E. Not open to freshmen Through analysis of the Constitution and the Bill of Rights, we examine criminal procedure as elaborated by federal and state court decisions. Topics include arrest procedures, search and seizure, right to counsel, and police interrogation and confessions. We will discuss the theoretical principles of criminal procedure and the application of those principles to the actual operation of the criminal court system. We will also discuss
	issues such as technology and the law, gender and race, terrorism,
	and the USA Patriot Act and civil liberties.
epartment: purse: tle: structor: cams: escription:	Political Science PSC 243 Seminar on Environmental Politics Rothenberg, L. Class Size: course cap Midterm and final exams An examination of environmental issues from a social scientific perspective. Topics include the reasons for environmental
	regulation, the history of environmental policy, the state of
	contemporary environmental policy, the role of state and local governments, the impact of environmental activists, and a
	comparison of domestic and international regulation of
	environmental affairs. Although there is considerable time
	devoted to lecture, students are encouraged to participate, and part of the grade will be based on student participation. Each student will also develop and briefly present a research paper which investigates a relevant issue of interest.
	when myestisates a relevant issue of merest.

Department:	Political Science
Course:	PSC 255
Fitle:	Political Films
Cross-listed:	FMS 256B
instructor:	Hauser, E.

Description:	The course will examine film as the dominant form of political expression under state patronage, with examples from the Soviet Union, Nazi Germany, and, after World War II, from Poland, Hungary, Czechoslovakia, and the former Yugoslavia. The course will also examine the transformation of political film in post- communist Eastern Europe. Requirements include short film reviews, a midterm, and a final exam.		how economic variation influences elections and the choice of electoral systems. More specifically, we will examine topics such as how electoral competitiveness and electoral institutions influence taxation, price levels, income distribution and trade protectionism as well as how change in domestic and international economic aggregates affect the probability of incumbent reelection, opportunistic election timing, and institutional reform. This course is organized as a seminar in
Department: Course: Title: Instructor:	Political Science PSC 260 Cold War: Europe between the U.S. and the USSR Orla-Bukowska, A.		which students present and critique each week's readings. While neither PSC 200 nor PSC 201 is a prerequisite, elementary familiarity with statistics is helpful for understanding much of the reading in this course.
<b>Description:</b>	The Cold War is typically seen as a political struggle between the U.S. and the USSR, yet it was played out on and directly affected the peoples of Europe Western, Central and Eastern. Through the prism of the continents societies, the course will trace the splitting, and then deepening, divides as well as their overriding consequences for states across the continent. From a sociopolitical perspective focused on Central Europe, we will analyze the most dramatic and significant turning points such as the Berlin Airlift in 1949 and the Polish Solidarity strikes in 1980 as well as survey internal and external actions and reactions across nearly five decades until the implosion of the entire communist system between 1989 and 1991. The course will close with a look at currently rising tensions between Europe and Russia, already referred to as a new Cold War.	Department: Course: Title: Instructor: Description:	Political Science PSC 269 Russian Politics Epstein, D. <b>Class Size:</b> This course will focus on the politics of the Russian Federation in the post-Soviet period. After a brief review of the decline and fall of the USSR, it will concentrate on Russian political development under the presidencies of Boris Yeltsin and Vladimir Putin, especially on the power politics of elections, parties, struggles between center and periphery, the increasing dominance of the executive branch and the decline of competitive politics. In mapping the emergence of Russia's political terrain, it will address some of the forces that have contributed to shaping it, including the results of economic transition, and the interplay of
Department: Course: Title:	Political Science PSC 262 Globalization Past and Present		domestic politics and Russia's changing geo-political status, including the Chechen wars and Russia's interests in other former Soviet republics such as Georgia and Ukraine.
Instructor: Description:	Kayser, M. This course examines the implications of economic globalization for domestic and international politics. Emphasis will be given to the lessons of 19th-century globalization for politically relevant issues of the present such as the effect of greater factor mobility on income distribution, economic growth, political coalitions, policy-setting autonomy, and the viability of the welfare state. Classes will feature a short introductory lecture followed by active discussion of the week's topic(s) and readings.	Department: Course: Title: Cross-listed: Instructor: Description:	Political Science PSC 272 Theories of International Relations PSC 272W Stone, R How do we explain patterns of war and peace? Why do states with common interests often fail to cooperate? This course surveys theories of international relations, focusing on explanations of conflict and cooperation. In particular, it
Department: Course: Title: Instructor: Restrictions: Description:	Political Science PSC 268 Economics and Elections Kayser, M. Class Size: course cap Not open to freshmen This undergraduate seminar examines the effect of elections and electoral systems on economic outcomes as well as the converse,		examines the roles of individual choice, strategic interaction, uncertainty, power, domestic politics, and anarchy. Students participate in an internet-based simulation of an international crisis. The course also serves as an introduction to game theory, and students will be expected to solve game theory problems in homework and exams. Students taking the course for writing

credit register for PSC 272W and write a substantial research paperin addition t the other course requirements.

Title: Instructor: Description:	War and Political Violence Dolan, T. <b>Class Size:</b> course cap This class addresses several key questions about war: How do states decide how to fight a war? Why do wars end when they do? How should we think about the nature of war? We will delve into these issues by addressing the theoretical and empirical literature on how wars are fought and how they are ended. Readings will include both classics of military theory by the likes	Department: Course: Title: Cross-listed: Restrictions: Description:	Political Science PSC 318 Emergence of the Modern Congress PSC 518, HIS 342W, HIS442 Permission of instructor required Through intensive reading and discussion, we will analyze major issues in congressional history and legislative institutions. We
Department: Course:	Political Science PSC 278		(importantly through the close reading of key Supreme Court opinions), and religions role in modern American society.
Title: Instructor: Description:	American Foreign Policy Dolan, T. This course examines both the historic roots and contemporary practice of U.S. foreign policy. It will begin with a brief survey of U.S. foreign policies from the earliest days of the Republic to the challenges of the twenty-first century, with a particular emphasis on debates over the best strategy and role for the U.S. in the world. It will then move to an analysis of the policy process and the determinants of U.S. policy, with a particular focus on the relationships between the executive, public opinion, the Congress, and the bureaucracy, as well as relationships with allies and international organizations. Last, it will analyze in detail the challenges, options, and limits of contemporary American foreign and national security policy, including the rise of China, increasing globalization, and terrorism.	Department: Course: Title: Cross-listed: Instructor: Description:	Political Science PSC 291 The First Amendment and Religion in America REL 297 Jackson, T Class Size: cap 25 The Constitution helps define, as it perhaps reflects, American society. In this scheme, religion has a special role. It, arguably uniquely, is given both Constitutional protection (free exercise) as well as Constitutional limitation (no establishment). Religions placement in the Bill of Rights (as a part of the First Amendment) suggests its importance (both in protection and in limitation) to the founders, and religions role in society today remains important and controversial. This course examines the historical forces that led to the adoption of the religion clauses of the First Amendment, the subsequent development of those clauses
Department: Course: Title: Instructor: Description: Department: Course:	Political Science PSC 273 Political Economy of East Asia Cho, H.J. This course focuses on three East Asian countries China, Japan, and South Korea from the perspective of international political economy. The course will examine the postwar developmental strategies of these countries and how the globalized world economy has transformed their state-led economies. It will address the challenges posed for East Asian countries by the Asian financial crisis and how the financial turbulence has led to institutional and policy reforms in these countries. We will also discuss the international trade relations between these countries and the U.S. and explore the domestic and international political implications of their trade relations.	Department: Course: Title: Instructor: Description:	<ul> <li>warfare and insurgency, civil wars, terrorism, and rioting. The domestic politics of war-fighting, particularly those involving public opinion will also be examined, as will some of the challenges of conflict resolution.</li> <li>Political Science</li> <li>PSC 281</li> <li>Formal Models in Political Science</li> <li>Duggan, J.</li> <li>This course explores the rational choice approach to understanding political phenomena. The main results of social choice theory, game theory, and spatial modeling are presented through application to a broad range of political situations: voting, legislative politics, political campaigns, comparison of electoral systems, the evolution of cooperation, and international relations. While there are no formal mathematical prerequisites for the course, some familiarity with mathematical reasoning and formalism is a must.</li> </ul>

of Clausewitz, Sun Tzu, and Mao, and work on the nature of war and war termination by modern political scientists. Then we will

address non-traditional forms of political violence like guerilla

will examine the basic institutions of the House and Senate-committees, parties, leaders, and rules. The course is designed to introduce students to the principal approaches used by political scientists to study Congress, with special emphasis on the development of congressional institutions over time. This is an advanced seminar, appropriate for juniors and seniors with substantial background in political science, economics, and/or history.

**Political Science Department: Course: PSC 389W** Title: Junior Honors Seminar Instructor: Niemi, R. Through reading and critiquing political science research, **Description:** students learn how to select a research question, find and evaluate relevant literature, locate data that addresses their research question, analyze the data, and write a research report. The primary task for the semester is to complete a research paper on a topic students choose jointly with the instructor. Students may work on joint projects or on individual papers. Toward the end of the semester, students who are interested in doing an honors project during the senior year work with the department in identifying a faculty member with whom they will work and write a draft prospectus for the project. Political Science **Department: Course: PSC 394** Title: Local Law and Politics Internships Powell, L. Instructor: **Description:** Most internship placements are in the District Attorney's or Public Defender's offices. Occasionally one or two other law placements are available. Students may also propose an alternative political or law placement. Interns work 10-12 hours per week through the entire semester. Grades are primarily based on a research paper. Applicants should have an appropriate course background for the internship and at least a B average. Students must be accepted in the course before approaching an agency for an internship. Students interested in an internship should pick up an application in the Political Science office (Harkness 333). Applications are available a week before registration starts, and an interest meeting is also held at that time. Delition Said ence

Department:	Political Science
Course:	PSC 396
Title:	Washington Semester Program
Instructor:	Jordan, S.

Prerequisites: Description:	Selection by application process One semester's work in Washington, D.C., as a member of the staff of a U.S. Senator or Representative. Interest meeting typically held in September or October of preceding fall semester. All details are provided at that meeting.
Department: Course: Title:	Political Science PSC 397 European Political Internships
Instructor:	Powell, L.
Description:	Internships are available for students in Edinburgh, London, Brussels, Bonn, Berlin and Madrid. Internships are in English in Edinburgh, London, and Brussels, and students need proficiency in the language for the latter three placements. For applications and information, students should contact the Study Abroad Office

#### Psychology

in Lattimore 206.

Department: Course: Title: Instructor: Description:	Psychology PSY 101 Introduction to Psychology Manly, John Provides familiarity with the major domains of, and the methods of discovery used in, the field of psychology. Topics covered include biopsychology, cognition and intelligence, child development, social processes, personality, and clinical psychology. The course provides an opportunity to "sample" many of the domains of psychology, both in preparation for taking more focused courses in the discipline, and to permit the application of psychological insights to other fields of endeavor.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Psychology PSY 112 Cognitive Psychology BCS 112 Tanenhaus, M. No prerequisites. NOTE: This course is recommended for PSY majors. Students CANNOT receive credit for BOTH BCS/PSY 111 AND BCS Same as BCS 112; see description in Brain & Cognitive Sciences listing. The course satisfies one of the natural science courses required for the PSY concentration.
Department: Course: Title:	Psychology PSY 113 Biopsychology of Social and Clinical Behaviors

Instructor: Description:	McAdam, D. A natural science psychology core course that explores biopsychological explanations of emotions, sexuality, psychopathology, addiction and others.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Psychology PSY 153 Cognition BCS 153 Bavelier, D. <b>Class Size:</b> 50 BCS/PSY 110 Required; BCS/PSY 111 recommended Same as BCS 153. See description in Brain and Cognitive Sciences listing.
Department: Course: Title: Cross-listed: Instructor: Description:	Psychology PSY 161 Social Psychology & Individual Differences CSP 161 Rempala, D. Same as CSP 161. See Clinical and Social Sciences in Psychology course description listing.
Department: Course: Title: Cross-listed: Instructor: Description:	Psychology PSY 172 Development of Mind & Brain BCS 172 Newport, E.,Aslin, R. <b>Class Size:</b> 100 Same as BCS 172. See description in Brain & Cognitive Sciences listing.
Department: Course: Title: Cross-listed: Prerequisites: Description:	Psychology PSY 208W Lab in Perception & Cognition BCS/CVS 208 Class Size: 20 (cap) BCS/CVS/PSY 151 and a course in statistics, or equivalent background, with permission of the instructor. Same as BCS 208. See description in Brain & Cognitive Sciences listing.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Psychology PSY 219W Research Methods in Psychology CSP 219W Thrash, T. Class Size: 25 PSY 101 See CSP 219W. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Psychology PSY 219W Research Methods of Psychology CSP 219W Rogge, R. Class Size: 25 PSY 101 See CSP 219W. Same as Clinical and Social Sciences in Psychology course description listing.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Psychology PSY 228 The Human-Machine Interface BCS/CVS 228 Staff Class Size: 15 PSY 110 or PSY 112 AND PSY 151 or PSY 153 Same as BCS 228. See description in Brain & Cognitive Sciences listing.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Psychology PSY 246 The Biology of Mental Disorders BCS/NSC 246 Kellogg, C.,Como, P. <b>Class Size:</b> 25 BCS 110, BCS 240 (NSC 201) or equivalent background. Same as BCS 246. See description in Brain & Cognitive Sciences listing.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Psychology PSY 259 Language Development BCS 259, LIN 208 Staff Class Size: 50 One of the following: BCS/PSY 110, 111, 112, 172; LIN 110; PSY 101, or equivalent backgraound. Same as BCS 259. See description in Brain & Cognitive Sciences listing.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Psychology PSY 261 Language Use and Understanding BCS 261, LIN 241 Tanenhaus, M. Class Size: 30 PSY 110 or BCS 111 or PSY 112 AND PSY 152 Same as BCS 261. See description in Brain & Cognitive Sciences listing.

Department:	Psychology	Description:	Same as CSP 283. See Clinical and Social Sciences in
Course:	PSY 262		Psychology course description listing.
Title:	Human Motivation and Emotion		
Cross-listed:	CSP 262	Department:	Psychology
Instructor:	Niemec, C. Class Size: open	Course:	PSY 309
Description:	See CSP 262. Same as Clinical and Social Sciences in	Title:	Honors Seminar
	Psychology course description listing.	Instructor:	McAdam, D.,Klorman, R.
		Restrictions:	Permission of instructor required
Department:	Psychology PSY 265	Description:	See CSP 309. Same as Clinical and Social Sciences in
Course: Title:			Psychology course description listing.
Cross-listed:	Language and the Brain BCS 265, LIN 218	Department	Developer
Instructor:	Vannest, J.	Department: Course:	Psychology PSY 311
	BCS/PSY 110 or BCS 240 AND PSY 152 or LIN 110	Title:	Honors Research
Prerequisites: Description:	Same as BCS 265. See description in Brain & Cognitive		McAdam, D.,Klorman, R.
Description:	Sciences listing.	Restrictions:	Permission of instructor required
	Sciences listing.	Description:	See CSP 311. Same as Clinical and Social Sciences in
Department:	Psychology	Description:	Psychology course description listing.
Course:	PSY 278		r sychology course description risting.
Title:	Adolescent Development	Department:	Psychology
Cross-listed:	CSP 278	Course:	PSY 352
Instructor:	Rempala, D.	Title:	Research in Developmental Neuropsychology
Description:	Same as CSP 278. See Clinical and Social Sciences in	Cross-listed:	CSP 352
Description	Psychology course description listing.	Instructor:	Bennetto, L.
	r sychology course description instillg.	Restrictions:	Permission of instructor required
Department:	Psychology	Description:	Same as CSP 352. Same as Clinical and Social Sciences in
Course:	PSY 280	2.000.1000	Psychology course description listing.
Title:	Clinical Psychology		j
Cross-listed:	CSP 280	Department:	Psychology
Instructor:	Manly, John Class Size: open	Course:	PSY 356
<b>Description:</b>	Same as CSP 280. See Clinical and Social Sciences in	Title:	Research in Adolescent Development
•	Psychology course description listing.	Cross-listed:	CSP 356
		Instructor:	Smetana, J.
Department:	Psychology	Prerequisites:	Prerequisite: CSP 171 or 278
Course:	PSY 282	Restrictions:	Permission of instructor required
Title:	Abnormal Psychology	Description:	Same as CSP 356 See Clinical and Social Sciences in
Cross-listed:	CSP 282		Psychology course description listing.
Instructor:	Burnette, M.		
Description:	See CSP 282. Same as Clinical and Social Sciences in	Department:	Psychology
	Psychology course description listing.	Course:	PSY 374
		Title:	Exploring Research in Social Psychology II
Department:	Psychology	Instructor:	Elliot, A.
Course:	PSY 283	<b>Restrictions:</b>	Permission of instructor required
Title:	Behavioral Medicine	Description:	See CSP 374. Same as Clinical and Social Sciences in
Cross-listed:	CSP 283		Psychology course description listing.
Instructor:	Patrick, H. Class Size: open	_	
Prerequisites:	PSY 101	Department:	Psychology

Course:PSY 378Title:Exploring Research in Family Psychology IICross-listed:CSP 378Instructor:Davies, P.Restrictions:Permission of instructor requiredDescription:See PSY 378. Same as Clinical and Social Sciences in<br/>Psychology course description listing.

Department: Course: Title: Cross-listed: Instructor: Restrictions: Description: Psychology PSY 385 Practicum in Developmental Disabilities PSY 385 Bennetto, L. Permission of instructor required See CSP 385. Same as Clinical and Social Sciences in Psychology course description listing.

### **Religion & Classics**

Department: Course: Title: Cross-listed: Instructor: Exams: Description:	Religion & Classics REL 102 Introduction to the New Testament REL 102W Merideth, A. Quiz, 2 papers, Final exam The aim of the course is to examine the texts of the New Testament, as well as other ancient sources, in an attempt to reconstruct a picture of Christianity in its beginnings. We will study the New Testament and the early Jesus movement within the wider context of Second Temple Judaism and the Greco- Roman world. Issues such as the development of the canon, the divisions within the Jesus Movement between Jews and Gentiles, the different understandings of the figure of Jesus, the conflicts which shaped the institutional development of the early church, and the conflict between Rome and the early church will receive particular attention and analysis. We will approach the texts of the New Testament as we would any other texts in antiquity, namely from an historical perspective. Students will be exposed to the traditional tools of biblical scholarship. No previous knowledge of the New Testament or of early Christianity is assumed.
Department:	Religion & Classics
Course:	REL 106
Title:	From Confucius to Zen
Instructor:	Brooks, D.
Exams:	Mid-term, term paper, final examination

Description:	An introduction to the major religious traditions of China and Japan. In order of treatment, we will examine early Chinese religion, Confucianism, Taoism, Chinese Buddhism, Shinto, and Japanese Buddhism. While our main emphasis will be on basic teachings, we will also consider religious practices and social impact of these traditions. Readings include primary sources in translation and contemporary scholarship.
Department: Course:	Religion and Classics REL 149
Title: Cross-listed:	Contemporary Fiction from the Arab World in Translation ARA 149
Instructor: Description:	Beaumont, D. Please see ARA 149 for the course description.
Department: Course: Title: Cross-listed: Instructor:	Religion & Classics REL 198Q Dante's Divine Comedy II IT 196Q, CLT 117Q, IT 221, CLT 253D, REL Stocchi-Perucchio, D.
Description:	Please see IT 196Q for the course description.
Department: Course: Title: Cross-listed: Instructor: Description:	<ul> <li>Religion &amp; Classics</li> <li>REL 202</li> <li>Eros and Madness in Plato</li> <li>CLA 202</li> <li>Geier, A.</li> <li>A careful and thorough line by line study of Plato's PHAEDRUS and SYMPOSIUM with a view to understanding each dialogue in itself and Plato's philosophic art of poetic composition. Some major themes in Plato will be intensively explored, such as The Soul and its parts, the immortality of The Soul, the nature of learning, Eros and philosophic passion, and others. Mostly discussion.</li> </ul>
Department: Course: Title: Cross-listed: Instructor: Restrictions: Description:	Religion & Classics REL 208A Medicine, Magic, and Miracle in the Greco-Roman World CLA 208 Merideth, A. Not open to freshmen Using a wide range of materials (medical treatises, magical papyri, gospel stories, inscriptions, etc.), we will examine the range of understandings of disease and of healing practices in the Greco-Roman world. We will focus on the development of competing healing cults in antiquity (such as the Asklepios cult, early Christianity) as well as the development of the medical

Department: Course: Title:	<ul> <li>"profession" during this period. Additionally, we will examine and critique both ancient and modern debates over the differences between science, magic, and religion.</li> <li>Religion &amp; Classics REL 238</li> <li>Native American Art &amp; Religion</li> </ul>	Description:	This seminar will consider the problem of evil, variously understood as the claim that the existence of evil and of a good God are logically incompatible, or as the claim that the existence of evil renders the existence of God unlikely or unreasonable. We will probably read: Adams and Adams, eds., The Problem of Evil (Oxford, 1990) and van Inwagen, The Problem of Evil (Oxford, 2006).
Cross-listed:	AH 280		
Instructor:	Berlo, J.	Department:	Religion & Classics
<b>Description:</b>	Please see AH 280 for the course description.	Course:	REL 297
		Title:	The First Amendment & Religion in America
Department:	Religion & Classics	Cross-listed:	PSC 291
Course:	REL 240W	Instructor:	Jackson, T.
Title:	Muhammad and the Qur'an	<b>Description:</b>	Please see PSC 291 for the course description.
Cross-listed:	AAS 243W		
Instructor:	Homerin, Th. E.	Department:	Religion & Classics
<b>Description:</b>	This course will study the prophet Muhammad, the Qur'an, and	Course:	REL 310
	their importance to medieval and modern Muslim culture. The	Title:	Seminar in Mahabarata
	prophet's life and major themes of the Qur'an will be discussed	Instructor:	Brooks, D.
	together with interpretations of them found in Islamic legal,	Prerequisites:	Students must have taken either REL 105 or have the permission
	theological, philosophical, and mystical writings.	_	of the instructor.
		Coursework:	Three short papers, plus a revision
Department: Course: Title: Instructor: Exams: Description: Department: Course: Title: Cross-listed: Instructor: Description:	<ul> <li>Religion &amp; Classics</li> <li>REL 243W</li> <li>Islamic Mysticism</li> <li>Homerin, Th. E.</li> <li>3 papers</li> <li>An advanced introduction to mystical life in Islam which will study Islamic mystical experience and theory, and trace the importance of Islamic mysticism to religion, philosophy, art and literature as found in medieval and modern Muslim societies.</li> <li>Religion &amp; Classics</li> <li>REL 286</li> <li>Dante's Divine Comedy II</li> <li>IT 206/IT 206W/CLT 206/CLT 406</li> <li>Stocchi-Perucchio, D.</li> <li>Please see IT 196Q for the course description.</li> </ul>	<b>Description:</b>	This course will focus exclusively on the MAHABHARATA, the great Hindu epic of nearly ninety thousand lines in eighteen books which takes as its central matter the struggle for legitimate succession to the throne of Kuruksetra, the ancestral realm of the clan of the Bharatas. MAHABHARATA recounts the story, as far as Hindus are concerned, of their cultural and historical past. It is, however, more than a story of war and familial intrigues: it is a repository for the myths, rituals, concepts, values, and moral issues that shape classical Hinduism. We will begin by outlining the entire epic by reading a "condensed" version. We will then read selections from the first five books in J.A.B. van Buitenen's line-by-line translation. We will focus our discussion of the text on several issues, particularly the literary and historical development of the epic and its transmission, and the definition and development of myth, ritual, social, moral, and cultural values in epic Hinduism. Primary text will be augmented by contemporary scholarship and a case study of the living cultic
Department:	Religion & Classics		traditions derived from the epic.
Course:	REL 291		I
Title:	Topics in Philosophical Theology	Department:	Religion & Classics
Cross-listed:	PHL 260/460	Course:	REL 389W
Instructor:	Wierenga, E.	Title:	Senior Seminar
Coursework:	Students will write eight 2-page papers in advance of the seminar	Instructor:	Merideth, A.
Coursework	meetings and one more substantial (8-10 pp.) course paper.	Description:	This advanced seminar focuses on topics, methods, and theoretical models in the study of religion. Specific subjects are

determined on a yearly basis. Restricted to Senior Religion Majors.

#### **Religion & Classics -- Arabic**

Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Religion & Classics Arabic ARA 102 Elementary Arabic II Beaumont, C. ARA 101 or permission of the instructor Weekly quizzes; final exam. A continuation of ARA 101, with increased emphasis on reading comprehension of Arabic texts. Homework includes written exercises and text preparation.
Department: Course: Title: Instructor: Description:	Religion & Classics Arabic ARA 104 Intermediate Arabic II Beaumont, C. A continuation of ARA 103.
Department: Course: Title: Cross-listed: Instructor: Description:	Religion and Classics - Arabic ARA 149 Contemporary Fiction from the Arab World in Translation REL 149 Beaumont, D. This course introduces the students to major Arab authors of contemporary novels and short stories in excellent translations. Works include Palace Walk by the Nobel Prize winner Naguib Mahfouz, prize-winning short stories of Yusuf Idris, Abdurrahman al-Munif's classic vision of Saudi Arabia Cities of Salt, as well as works by Ghassan Kanafani, Gamal Al-Ghitani and many others. The goal is to give the student an understanding of life in the contemporary Arab World that transcends mass media stereotypes. The selected works reflect literary merit, but the readings also attempt to bring in lesser- known voices from places such as Libya, the Sudan and the Gulf states. Classes will be in seminar form, and class participation and written essays will form the basis of the grade.
Department: Course: Title: Instructor: Description:	Religion & Classics Arabic ARA 206 Advanced Prose Seminar III Beaumont, D. The course continues the sequence 201-205. Readings may be drawn from contemporary Arabic short stories or medieval works depending on students' interests and abilities. Students write brief

essays to expand their vocabulary and improve the speed with which they read and understand literary Arabic. Tests consist of dictations and vocabulary quizzes.

### **Religion & Classics -- Classical Greek**

Department: Course: Title: Instructor: Prerequisites: Description:	Religion & Classics Classical Greek CGR 102 New Testament & Classical Greek II Heyman, G. CGR 101 or permission of instructor The primary focus of this course is to continue the study of basic grammar, vocabulary, and syntax in order to read ancient Greek texts. By the end of the semester you will have read selections from some of the foundational works of the western canon, including the philosophical writings of Plato and the New Testament.
Department: Course: Title: Instructor: Description:	Religion & Classics Classical Greek CGR 210 Euripides Geier, A. Through a reading of one of his best-known tragedies either the Medea, Hippolytos, Bacchae, or Alcestis we will explore the language and thought of Euripides, the tragedian who is both poet and social critic.

### **Religion & Classics -- Classical Studies**

Department: Course: Title: Cross-listed: Instructor: Description:	Religion & Classics Classical Studies CLA 202 Eros and Madness in Plato REL 202 Geier, A. A careful and thorough line by line study of Plato's PHAEDRUS and SYMPOSIUM with a view to understanding each dialogue in itself and Plato's philosophic art of poetic composition. Some major themes in Plato will be intensively explored, such as The Soul and its parts, the immortality of The Soul, the nature of learning, Eros and philosophic passion, and others. Mostly discussion.
Department:	Religion & Classics Classical Studies
Course:	CLA 221
Title:	Classical Archaeology: Roman Art and Archaeology
Cross-listed:	AH 221

Instructor: Col

**Description:** 

Colantoni, E.

This course examines the physical remains of ancient Roman civilization, with an emphasis on architecture, sculpture, painting, and other visual arts, in order to understand Roman culture and society. Covering a span of time from the ninth century BC through the fifth century AD, we will first look at the Etruscan background to Roman civilization; we will then trace the development of art and architecture in the city of Rome, with a particular emphasis on the monuments in the city during the period in which Rome was the capital of a vast empire. Along the way, we will also examine evidence from other sites around the Roman Empire, such as Ostia, Pompeii, and Constantinople.

#### **Religion & Classics -- Hebrew**

Department:	Religion & Classics Hebrew
Course:	HEB 102
Title:	Elementary Hebrew II
Cross-listed:	JST 102
Instructor:	Fix, T.
Prerequisites:	Hebrew 101 or equivalent
Description:	Direct continuation of Hebrew 101 with emphasis on enhancing reading, writing, and speaking skills. Several unit exams throughout the course, no final. May not be taken for credit by anyone who has successfully completed HEB 103 or higher.
Department: Course:	Religion & Classics Hebrew HEB 204

Department:	Religion & Classics Hebrew
Course:	HEB 204
Title:	Hebrew through Conversation
Cross-listed:	JST 204
Instructor:	Fix, T.
Prerequisites:	HEB 103, or equivalent
Description:	This is a fourth semester course in the Hebrew language series
	designed to enhance and advance conversational skills using
	various sources including Israeli newspapers, Hebrew stories, and
	topical discussions based on students' interests and Israeli life.
	There will be writing assignments, quizzes and tests throughout
	the semester. No final exam.

### **Religion & Classics -- Latin**

Department:	Religion & Classics Latin
Course:	LAT 102
Title:	Elementary Latin II
Instructor:	Davison, M.
Prerequisites:	LAT 101 or permission of instructor

Exams: Description:	Two hour exams, frequent quizzes, final exam The elementary Latin sequence (Latin 101-103) emphasizes reading skills and is based on the ancient authors. Readings are accompanied by ample drills of forms, syntax, and vocabulary.
Department:	Religion & Classics - Latin
Course:	LAT 220
Title:	Plautus and Roman Comedy
Instructor:	Colantoni, E.
Prerequisites:	LAT 103 or permission of instructor
Description:	A study and translation of one whole play of Plautus and passages from several others. The purpose of the course is to help students improve their Latin, become familiar with colloquial expressions used in every-day Latin, and explore the cultural implications concerning Roman Life as depicted in Roman Comedy.

#### **Religion & Classics -- Sanskrit**

Department:	Religion & Classics Sanskrit
Course:	SKT 104
Title:	Sanskrit IV
Instructor:	Brooks, D.
Description:	Readings from intermediate sources in Sanskrit.

#### Russian Studies – Please see Modern Languages & Cultures

#### Sociology

Department:	Sociology		
Course:	SOC 262		
Title:	Medical Sociology		
Instructor:	Harper, D.	Class Size: 75	
Exams:	No term papers; three midterm exams; final exam		
Coursework:	Reading: No single textbook. Six or seven book length		
	monographs. Examples: Forgive and remember - a study of the		
	training of surgeons; Experiment perilous-a study of medical		
	research; Do We Need Do	ctors - an essay on the role of physicia	
		· ·	

Description:	Sociological ideas are used to examine health, disease, medicine and a number of related topics: doctor-patient relationships; the recruitment and training of physicians; social, psychological and	Pro Re
	cultural factors in the cause and treatment of disease; psychiatric	Ex
	disorder; changing organization of health care; research methods	De
	in the study of disease; controversies in medicine and health care.	
Department:	Sociology	
Course:	SOC 310K	
Title:	Soc Network Theory and Entrep Activity in Silicon Valley	
Cross-listed:	ANT310K	
Instructor:	Thomas Smith Class Size: 20	
Description:	Network theory is at the forefront of an emerging collaboration	
	among academics, with many new and interesting interdisciplinary implications, especially those for	
	entrepreneurship. In this course, students will analyze cutting-	
	edge research an network modelling techniques. They will then	De
	apply that knowledge by analogy in the context of a semester-	Co
	long role-played entrepreneurial exercise. Students will engage	Tit
	in ongoing synthesis to help foster a deep understanding of not	Cr
	only the importance of network concepts, but also their real-	Pro
	world applications. Designed for students with entrepreneurial	
	zeal, this course will constitute a real-world how-to guide.	Co
Department:	Sociology	
Course:	SOC 311K	De
Title:	Social Network Theory and Entrepreneurial Activity in Silicon Valley II	
Cross-listed:	ANT 311K	
Instructor:	Smith T,Silon D Class Size: 30	
Prerequisites:	SOC/ANT 310K	De
Description:	This course is designed for students who have already taken	Co
	SOC/ANT 310K. It aims to deepen and extend skills in the same	Tit
	areas for which 310K was an introduction social network theory	Ex
	and the new sociology of business and entrepreneurial activity. Students will read further in this new literature, and also learn to	Co
	use the advanced features of network software to analyze network	00
	data. Significantly, 311K will coincide with 310K, allowing	De
	enrollees to serve as second-generation entrepreneurs, engineers,	
	managers, and marketers in ongoing classroom simulations, while	
	also playing an instructional role in the network laboratory	
	accompanying the class.	
	1 7 0	De
Department:	Sociology	Co
Course:	SOC 312	Tit
Title:	Studies in Medical Sociology	Ex
Instructor:	Harper, D. Class Size: 12	Co

rerequisites:	Permission of instructor; good knowledge of statistics.
estrictions:	Permission of instructor required Not open to freshmen and sophomores
xams:	No exams; 2 or 3 term papers
escription:	CONTENT: Two or three problems in the study of the sociological aspects of disease or mental disorder, (e.g., how can the higher rates of anxiety among women as compared with men be explained?) will be closely examined. METHOD OF INSTRUCTION: The course will be taught as a seminar with class discussion and class reports; students will conduct library research and analyze data. READINGS: Selected journal and research papers.

### **Statistics**

Department: Course: Title: Cross-listed: Prerequisites: Coursework:	Statistics STT 203 Introduction to Mathematical Statistics MTH 203 <b>Class Size:</b> 20 STT 201 or familiarity with the elementary principles of probability, expected value, variance and covariance. Same as MTH 203. Lectures and a weekly recitation section. Weekly homework, two midterms, and a final.
Description:	Discrete and continuous probability distributions and their properties. Principle of statistical estimation and inference. Point and interval estimation. Maximum likelihood method for estimation and inference. Tests of hypotheses and confidence intervals, contingency tables, and related topics.
Department: Course: Title: Exams: Coursework: Description:	Statistics STT 211 Applied Statistics for the Social Sciences I 2 midterms and a final Lectures plus weekly recitation section meeting. Weekly homework. Descriptive statistics, statistical analysis, and statistical inference as used in the social sciences; including elements of correlation, regression, and analysis of variance. Excel, Minitab and similar programs.
Department: Course: Title: Exams: Coursework:	Statistics STT 212 Applied Statistics for the Biological & Physical Sciences I Two mid-terms and a final <b>Class Size:</b> 75-100 Lectures plus a weekly recitation section. Weekly homework.

Description:	Descriptive statistics, statistical analysis, and statistical inference as used in the biological and physical sciences; including elements of correlation, regression, and analysis of variance. Excel, Minitab and similar programs.		
Department: Course: Title: Prerequisites: Exams: Coursework: Description:	Statistics STT 216 Applied Statistics II Class Size: 20 STT 211, STT 212, or STT 213. Midterm and final Lectures plus a weekly recitation section. Weekly homework. Continuation of 211 or 212. Analysis of variance, regression, correlation contingency table analysis, and associated topics. Excel, Minitab and similar programs.	Dep Cou Title Cro Inst Pree Dese	
Department: Course: Title: Cross-listed: Prerequisites: Exams: Description:	Statistics STT 222 Design of Experiments STT 422 Class Size: 10-15 STT 211, STT 212, STT 216 or equiv Final Randomized blocks and Latin squares, one- and two-way classifications, factorial experiments, analysis of variance and covariance, t-tests and F-tests. Excel, Minitab and JMP and SAS and similar programs.	Dep Cou Titl Inst	
Department: Course: Title: Cross-listed: Prerequisites: Exams: Coursework: Description:	Statistics STT 241 Applied Multivariate Analysis STT 441 <b>Class Size:</b> 15 STT 226. None: Evaluation based on homework and projects. Homework, project (2 credits; second half of the semester.) Methodology and applications of multivariate analysis. Hotelling's T-square, multivariate regression and analysis of variance. Classification and discrimination. Principal components, clustering, multidimensional scaling. Computer programs including JMP and SAS.		
Department: Course: Title: Prerequisites: Coursework:	Statistics STT 391 Independent Study in Statistics Consent of the advisor. Supervised reading arranged on an individual basis.	Dep Cou Title Cro Inst Dese	

## W. Allen Wallis Institute of Political Economy

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Description:	Political Economy PEC 582 Political Economy II Eco 582, PSC 582 Alex Debs PEC 575 is recommended (but not necessary) This course reviews recent advances in nondemocratic politics and the political economy of developing countries. We will tackle such issues as the economic foundations of democratic transitions and the economic impact of power struggles in dictatorships. The course combines the use of formal models with case studies and econometrics.		
	Women's Studies		
Department:	Women's Studies		
Course:	WST 100		
Title:	Intro to Womens Studies: Gender, Feminism and Women in		
T	Sport Yerdon, M. Class Size: 25		
Instructor: Description:	Yerdon, M. Class Size: 25 This is an interdisciplinary course on gender, feminism and women in sport. We consider how theories of gender, social organization, and biological sex shape the questions asked and explanations and interventions offered in the social structure of sports. We examine the interactions between gender, social class, and race, with special emphasis given to examining women in sport from historical, economic, sociological, psychological, scientific, religious, and political perspectives. Collectively, we will examine women in sport from personal and institutional angles, with specific foci on the impact of the social construction of biological sex and gender, the diversity of women, and the interactions of race, class, gender, and sexuality on womens health.		
Department: Course:	Women's Studies WST 177W		
Title:	Creative Middle Eastern Dance		
<b>Cross-listed:</b>	DAN 180		
Instructor:	K. Scott		
Description:	2.0 credits Unveil the grace and beauty residing in the creative nature of Middle Eastern Dance. Improve strength, flexibility and		

nature of Middle Eastern Dance. Improve strength, flexibility and self awareness of the body. Class work will include meditative

movement, dance technique, improvisation and rhythm identification through music and drumming. Specific dance forms such as Egyptian & Turkish Oriental, Tunisian, American Tribal and Folkloric/Bedouin styles of North Africa will be taught. Discourse and research topics will explore issues of gender, body image, historical perspectives and Orientalism.

Department: Course: Title: Instructor: Prerequisites: Coursework: Description:

Women's Studies **WST 200W** Colloquium in Women's Studies Class Size: 30 Bredes, N. At least one course in Women's Studies recommended substantial research paper(see description) The colloquium explores the diversity of feminist thought and practice in its importance in forming the intellectual grounding in Women's Studies, in its impact on a variety of disciplines, and in its articulation with lives and social practices. The course follows a three fold structure. First, we consider several major systems of feminist thought; second, through discussions and reading with guest faculty Associates of the Susan B. Anthony Institute, we consider the interdisciplinary methods that under gird these forms of feminist theory in a variety of academic disciplines. Third, in class discussions and writings we consider the experiences of women and men situated in diverse and changing cultural, economic, political, and psychological climates with an emphasis on problem areas of interest to class members. The course will support and develop in students the ability to write intensively in Women's Studies as an inherently interdisciplinary field; it meets the upper-level writing requirement in Women's Studies for the college. A variety of forms of writing will be explored for their value as feminist expression. Students will receive support in the development of a substantial research paper, which comprises a short proposal outlining the paper's major themes and goals, an annotated bibliography, peer review, rough and final drafts. THIS IS A WOMEN'S STUDIES FOUNDATION COURSE. THIS COURSE COUNTS TOWARDS ALL WOMEN'S STUDIES CLUSTERS.

Department:	Women's Studies
Course:	WST 204F
Title:	Feminist Film Theory
Cross-listed:	AH 355/555, FR 287, CLT 211G, FMS 355/45
Instructor:	S. Willis
Description:	Please see AH 355 for the course description.

Department: Course: Women's Studies WST 205F

Title: Cross-listed: Instructor: Description:	Philosophical Foundations of Feminism PHL 171 Modrak, D. Class Size: 30 The study of contemporary feminist theory. The course considers the conception of women expressed through our practices, laws, theories and literature. Is this conception that of an inessential Other as one philosopher has argued? Other topics to be discussed include: equality and equal rights, sex roles and gender specific language, power relations and self-determination, marriage and maternity. THIS IS A WOMENS STUDIES FOUNDATION COURSE.
Department: Course: Title: Cross-listed: Instructor: Description:	Women's Studies WST 215 Community, Earth, and Body DAN 214 Hook, J. How does our relationship with our body affect the way we interact with the world? What does it mean to be truly human and to renew and deepen communication with our natural world and society? What is love and how do we practice it? What is transformative learning? These questions and others will be addressed through experimental practice, autobiographical writing and stories, reading, discussion and CONVERSATION.
Department: Course: Title: Cross-listed: Instructor: Description:	Women's Studies WST 229 War and Migration ANT 229 Kim, E. Please see ANT 229 for the course description.
Department: Course: Title: Cross-listed: Instructor: Coursework: Description:	Women's Studies WST 243 Toni Morrison ENG 243, ENG 443, AAS 241 S. Li Written assignments include three short papers. Attendance at weekly screenings is required. Please see ENG 243 for the course description.
Department: Course: Title: Cross-listed: Instructor:	Women's Studies WST 243A Major Author: Jane Austen ENG 243, ENG 443, WST 443 K.Mannheimer

Description: Department:	Blending clear-eyed social commentary with a faith in romantic love, festooning mordant satire with enchantedly happy endings, Jane Austens novels subsist on contradiction and enjoy more popularity than ever. This course will place Austen in the context of her times while also analyzing her continued appeal. Readings include Northanger Abbey, Sense and Sensibility, Pride and Prejudice, Mansfield Park, Emma, and Persuasion, as well as novels by such authors as Frances Burney, Maria Edgeworth, Anne Radcliffe, and the Brontes. Women's Studies	Title: Cross-listed: Instructor: Prerequisites: Description:	The Biochemistry of Male-Female Differences in Health and Disease BIO 255 Terry Platt BIO 250 In many instances, women display different biochemical patterns than men in their metabolic responses to foods, nutrients, drugs, and other macromolecules, as well as to certain diseases. This course is designed to examine the relatively uncharted territory of such biochemical differences between males and females that are a consequence of their sex. Topics to be covered include alcohol
Course:	WST 244		metabolism, lipid metabolism, cardiovascular disease,
Title: Cross-listed:	Mutilated Bodies, Mutilated Discourse FR 243, AAS 244, CLT 221, CLT 421		osteoporosis, Parkinsons disease, the cytochrome p450 system, and gene expression. Lecture and discussions will be integrated
Instructor: Description:	C. Kemedjio "Transnational sisterhood" or cultural imperialism? Legitimate		with areas of environmental and public health concern. [Note: The course will NOT be concerned with anatomical or
L.	ritualized practice or outdated violent ritual? Genital cutting, female circumcision, female genital surgery? The controversy over this practice already begins with the act of its naming. Who		physiological sexual responses, sexual development, or aspects of reproduction per se.]
	is qualified to speak the 'truth' about the assaulted female body?	Department:	Women's Studies
	How can we explain the fact that western feminist discourses and right wing politicians tend to agree on the issue of genital	Course: Title:	WST 256 Latin American Women Writers
	mutilations? If there seems to be a consensus about the physical	Cross-listed:	CLT 111Q, SP 260, SP 460, CLT 226, CLT 4
Department:	violence imposed on the female body, why is it that western feminist discourse is suspected of perpetuating the mutilation of African voices? This course seeks to provide an understanding of the context in which a fragmented "transnational sisterhood" allows for a proliferation of mutilated discourses on mutilated postcolonial (African, poor and defenseless) bodies. Readings include Alice Walker, Evelyne Accad, Fauziya Kassindja and critical feminist readings from African, French and North American authors. In English. Women Studies	Instructor: Description:	B. Jorgensen Through study of texts (mostly novels) written by women from Latin America, we will ask broad questions concerning cultural contexts with respect to sexuality and gender, language, aesthetics, psychology, and social issues. The course will use materials from a variety of fields (literary and cultural theory, film studies, psychology, history, sociology, anthropology, feminist studies) in addition to the primary texts. All texts and discussions in English. Emphasis on collaborative research and progressive writing assignments.
Course:	WST 251	Department:	Women's Studies
Title: Cross-listed:	Women in East Asia HIS 296W, ANT 252	Course: Title:	WST 268 Contemporary Japanese Culture
Instructor:	Hauser, E	Cross-listed:	JPN 246, CLT 208C, CLT 408C, HIS 278
Coursework:	Students will write an essay on Japan and China and a comparative essay at the end of the term, including Korea. Each essay will be 5-8 pages in length, and can be rewritten and resubmitted after the initial grading.	Instructor: Exams: Description:	<ul><li>D. Pollack</li><li>Midterm &amp; Final</li><li>Fall 2008. Reading and discussion of items in recent popular and scholarly media in Japan and the west on issues of contemporary</li></ul>
Description:	Please see HIS 296W for the course description.		concern, including national and racial identity, gender and sex roles, immigration and work, war and history, cultural
Department:	Women's Studies		authenticity, and Japan's place in Asia and the world.
Course:	WST 252	Department:	Women's Studies

Course: Title: Cross-listed: Instructor: Description: Department: Course: Title:	WST 270 Art of the Floating World JPN 269, AH 269 D. Pollock Please see JPN 269 for the course description. Women's Studies WST 287 U.S. Latinos/Latinas	Department: Course: Title: Restrictions: Description:	Women's Studies WST 393H Independent Research Open only to senior majors or by permission of instructor Honors - see WST 397 Independent research with substantial supervised research and written work in gender and women's studies. This research should be directed toward work in WST 397.
Cross-listed:	SP 282/482, CLT 236B,/436B, AAS 251, WST	Department:	Women's Studies
Instructor:	R. Rodriguez	Course:	WST 394
<b>Description:</b>	Please see SP 282 for the course description.	Title: Instructor:	Women's Studies Internship see description
Department:	Women's Studies	<b>Restrictions:</b>	Permission of instructor required
Course:	WST 296	<b>Description:</b>	WST 394 It is the Student's responsibility to arrange the
Title:	International Human Rights		internship with the organization and to find a professor as an
Cross-listed:	HIS 314W, HIS 414, WST 496		advisor for the internship. Organizations/Companies currently
Instructor:	Pedersen, J.		offering internships (Descriptions available in Lattimore 538)
Description:	What does it mean to be human? What political, economic,		Afterimage, Alternatives for Battered Women, Center for Dispute
	religious, social, or sexual rights might be part of different people's working definitions? This course will look at both a) the		Settlement, City Council of Rochester, Division of Human Rights, New York, Gay Alliance of Genesee Valley, Monroe
	historical development of conflicting theories of human rights		County District Attorney's Office, Planned Parenthood, St.
	and b) more contemporary debates about their ideal extent, their		Joseph's Villa, Sojourner House, Susan B. Anthony House, TV
	exercise, and their enforcement. Special topics will include		Dinner/Metro Justice, Urban League of Rochester, Visual Studies
	debates over the meaning of the American and French		Workshop (Media Center) (1-2 positions), Wheatley Branch
	Revolutions, the fight to design an International Declaration of		Library, YWCA.
	Human Rights in the aftermath of World War II, the history of		
	organizations such as Amnesty International, and the controversy	Department:	Women's Studies
	around UN events such as the 1995 World Conference on	Course:	WST 396
	Women in Beijing or the 2002 World Summit on Sustainable	Title:	Women's Studies Seminar
	Development in Rio de Janeiro.	Cross-listed:	HIS Dedenser L
Department	Women's Studies	Instructor:	Pederson, J
Department: Course:	WST 391	Restrictions: Coursework:	Not open to freshmen and sophomores Juniors and seniors only or prerequisite course in African
Title:	INDEPENDENT STUDY	Coursework.	American Literature, American Literature, or Women's Studies.
Restrictions:	Permission of instructor required	Description:	This course will be announced at a later date. This course fulfills
Coursework:	Students interested in Independent Study should contact the	<b>r</b>	the requirement for WST 396 Women's Studies Seminar
	Women's Studies Curriculum Director.		1
		Department:	Women's Studies
Department:	Women's Studies	Course:	WST 397
Course:	WST 393	Title:	Independent Honors Thesis
Title:	HONORS - INDEPENDENT RESEARCH	Restrictions:	Open only to senior majors or by permission of instructor
Restrictions:	Open only to senior majors or by permission of instructor	Description:	Honors in Research recognizes the completion of a distinguished
<b>Description:</b>	Independent research with substantial supervised research and		honors thesis, research paper of approximately 35 pages
	written work in gender and women's studies. This research should be directed toward work in WST 397.		researched and written under the direction of afaculty advisor, and approved by the faculty advisor and a second reader. It is
			and approved by the faculty advisor and a second reader. It is

Department: Course: Title: Cross-listed: Instructor: Description: Department: Course: Title: Cross-listed:	expected that this thesis will be based on research undertaken through WST 393H or WST 394H, and completed in WST 397. Women's Studies WST 404 Feminist Film Theory AH 355/555, FR 287, CLT 211G, FMS 355/45 S. Willis Please see AH 355 for the course description. Women's Studies WST 443 Major Author: Toni Morrison ENG 243/443, AAS 241, WST 243	Department: Course: Title: Cross-listed: Description:	Women's Studies WST 456 Latin American Women Writers CLT 111Q, SP 260, SP 460, CLT 226, CLT 4 Through study of texts (mostly novels) written by women from Latin America, we will ask broad questions concerning cultural contexts with respect to sexuality and gender, language, aesthetics, psychology, and social issues. The course will use materials from a variety of fields (literary and cultural theory, film studies, psychology, history, sociology, anthropology, feminist studies) in addition to the primary texts. All texts and discussions in English. Emphasis on collaborative research and progressive writing assignments.
Instructor:	ENO 243/443, AAS 241, WS1 243 S. Li	Department:	Women's Studies
Description:	Please see ENG 243 for the course description.	Course:	WST 468
Department: Course: Title:	Women's Studies WST 443A Major Authors: Jane Austen	Title: Cross-listed: Instructor: Description:	Contemporary Japanese Culture JPN 246, CLT 208C/408C, WST 268, HIS 278 D Pollack Reading and discussion of items in recent popular and scholarly
Cross-listed:	ENG 243/443, WST 243	Description	media in Japan and the west on issues of contemporary concern,
Instructor:	K. Mannheimer		including national and racial identity, gender and sex roles,
Coursework:	Blending clear-eyed social commentary with a faith in romantic love, festooning mordant satire with enchantedly happy endings, Jane Austens novels subsist on contradiction and enjoy more		immigration and work, war and history, cultural authenticity, and Japan's place in Asia and the world.
	popularity than ever. This course will place Austen i	Department: Course:	Women's Studies WST 472
Department: Course:	Women's Studies WST 443B	Title: Cross-listed:	Gender and Sexuality GER 272/472, CLT 222B/422B
Title: Cross-listed:	Major Author: The Brontes ENG 243/443, WST 243	Instructor: Description:	J Creech This course will examine literary, artistic, and theoretical
Instructor: Description:	B. London An isolated country parsonage. A half mad father. A wastrel brother addicted to drugs. Three uniquely gifted sisters who burned their hearts and brains out on the moors but not before leaving us some of the most passionate and revolutionary literature of the 19th century. This course will explore the continuing appeal of the Brontes and the peculiar fascination that they have exercised on the literary imagination. Through intensive study of some of the best-loved novels our culture has produced the literary works of Charlotte, Emily, and Anne Bronte we will explore the roots and reaches of the Bronte myth. We will also consider the Brontes' legacy in todays popular romantic fiction and in some of the many adaptations of their work in print and on the screen. And we will look at our seemingly insatiable	Department: Course: Title: Cross-listed:	representations of gender and sexuality as they have changed in the course of the 20th Century. The focus will be on texts from Western Europe and the US, but we will also consider other perspectives. From the New Woman to French Feminists and transnational feminism, from homophile societies to "queer nation" and gay marriage, from Sigmund Freud to Michel Foucault and Judith Butler, we will explore the contested and politically charged debates around gender and sexuality that have shaped our views of identity over the last century. Women's Studies WST 487 US Latinos/Latinas SP 282/482, CLT 236B,/436B, AAS 251, WST
	appetite for new tellings of the Brontes' life stories.	Instructor: Description:	R. Rodriguez Please see SP 282 for the course description.
### Writing Program

Department: Course: Title: Description:	Writing Program WRT 105 Reasoning and Writing in the College <b>Class Size:</b> 15 WRT 105 introduces students to disciplinary writing at the college level by offering instruction in small sections that focus on the act of writing. It provides instruction and practice in clear and effective writing and in constructing cogent and compelling arguments, as students draft and revise numerous papers of different forms and lengths. These papers will introduce some of the forms of writing students will be expected to produce later in their college careers as well as in their public and professional lives after graduation. The subject of the course is writing, but since writing is about something, each section of 105 will present various texts, mostly written, for analysis and discussion in preparation for constructing extended argumentative essays and a final research paper. Students will consider the roles of audience and purpose in shaping the organization, style and argumentative strategies of their own papers, and they will learn to become critical readers of their writing through peer critiques and revision and editing workshops. Each section has unique content. Please refer to http://writing.rochester.edu for a full list of course descriptions.
Department: Course: Title: Restrictions: Description:	Writing Program WRT 105E Reasoning and Writing in the College <b>Class Size:</b> 10 Permission of Department required This course is an extended version of Reasoning and Writing in the College, WRT 105, and as such introduces students to disciplinary writing at the college level. It provides instruction and practice in clear and effective writing and in constructing cogent and compelling arguments, as students draft and revise numerous papers of different forms and lengths. These papers will introduce some of the forms of writing students will be expected to produce later in their college careers as well as in their public and professional lives after graduation. The subject of the course is writing, but since writing is about something, each section of 105E will present various texts, mostly written, for analysis and discussion in preparation for constructing extended argumentative essays and a final research paper. Students will consider the roles of audience and purpose in shaping the organization, style and argumentative strategies of their own papers, and they will learn to become critical readers of their writing through peer critiques and revision and editing

workshops. All extended versions of Reasoning and Writing in the College will include an additional class session each week and will be taught in computer labs and limited to 10 students. Places in these sections will be reserved for students whose writing placement results suggest that they need a more intensive writing experience to meet the demands of college and professional writing. Each section has unique content. Please refer to http://writing.rochester.edu for a full list of course descriptions.

Department:	Writing Program
Course:	WRT 108
Title:	Workshop in Writing
Prerequisites:	Fulfillment of primary writing requirement
Description:	Workshop in Writing (CAS 108) offers ongoing practice and
	instruction in writing and critiquing writing. Students meet
	weekly with a Writing Center Consultant to work on forms of
	academic writing relevant to their spring coursework forms
	which may include summary, critical response, the argumentative
	essay, the lab report, and others. Students may also choose to
	revise essays completed in previous semesters or work on other
	non-fiction prose projects of interest. Guided by a Writing Center
	Consultant, students plan, draft and revise their writing, critique
	each other's work, assess their own writing, and participate in
	group sessions on writing issues of shared concern. The
	semester's work will culminate in a final portfolio that features
	polished essays and an overall self-assessment. This course is
	graded pass/fail.

### **School of Engineering and Applied Sciences**

### **Biomedical Engineering**

Department: Course:	Biomedical Engineering BME 210	
Title:	Biosystems & Circuits	
Instructor:	Carney, L	Class Size: 30
Prerequisites:	Physics 122; Math 162; BME201L	
Exams:	Quizzes, Mid-term exam, Final exam	
Coursework:	Problem sets	
Description:	Introduction to linear systems theory a Examples will include bioelectric syst	2
	of biological systems.	6
Department:	Biomedical Engineering	

Course: Title: Cross-listed: Instructor: Prerequisites: Exams:	BME 228 Physiological Control Systems BME 428 Gdowski, G ,Derefinko, V <b>Class Size:</b> 30 Juniors required to have: Math 164 or 163/165, BME201L and ECE 241 or equivalent. Seniors required to have:BME 230 in place of E Three 1.5 hour in-class exams and 1 comprehensive exam at the end of the semester	Description:	The course presents the physical basis for the use of high- frequency sound in medicine (diagnosis, therapy, and surgery) and biology. Topics include acoustic properties of tissues, sound propagation (both linear and nonlinear) in tissues, interactions of ultrasound with gas bodies (acoustic cavitation and contrast agents), thermal and non-thermal biological effects of ultrasound, ultrasonography, dosimetry, hyperthermia and lithotripsy. 4 credits
Coursework:	12 homework assignments examples will be taken from the fields of respiratory mechanics, circulatory control and glucose-insulin regulation. Students will perform simulations using LABVIEW 5 Lab assignments and final project for groups of	Department: Course: Title: Instructor:	Biomedical Engineering BME 262 Cell & Tissue Engineering Awad, H Class Size: 30
<b>Description:</b>	The course focuses on the application of control theory to physiological systems. Lectures present modern control theory in the context of physiological systems that utilized feedback mechanisms. Lectures begin with an overview of linear systems analysis including: Laplace Transforms and Trasfer functions. The response dynamics of open-and closed-loop systems such as the regulation of cardiac output and level of glucose are discussed. Other topics include: stability analysis and identification of physiological control systems. 4 credits	Prerequisites: Exams: Coursework: Description:	<ul> <li>BME 260, CHE 225, CHE 243, CHE 244 or permission of instructor</li> <li>2 mid-terms and 1 final exam</li> <li>Term research paper with presentation</li> <li>This course teaches the principles of modern cell and tissue engineering with a focus on understanding and manipulating the interactions between cells and their environment. After a brief overview of Cell and Tissue Engineering, the course covers 5 areas of the field. These are: 1) Physiology for Tissue</li> </ul>
Department: Course: Title: Instructor: Prerequisites: Exams: Coursework: Description:	Biomedical Engineering BME 230 Biomedical Signals & Measurements McAleavey, S Class Size: 45 ECE113 or 210 or permission of instructor two mid-term exams and a final exam Students will participate in 6 laboratory sessions and will prepare written laboratory reports on their results. This course examines the array of instrumentation and techniques used in the acquisition, processing, and presentation of biomedical signals. Topics include transducers, sensors, Fourier		Engineering; 2) Bioreactors and Biomolecule Production; 3) Materials for Tissue Engineering; 4) Cell Cultures and Bioreactors and 5) Drug Delivery and Drug Discovery. Within each of these topics the emphasis is on analytical skills and instructors will assume knowledge of chemistry, mass transfer, fluid mechanics, thermodynamics and physiology consistent with the Cell and Tissue Engineering Track in BME. In a term project, students must present written and oral reports on a developing or existing application of Cell and Tissue Engineering. The reports must address the technology behind the application, the clinical need and any ethical implications. 4 Credits
	analysis, the ECG signal, flow measurement, medical imaging, and biosensors. Laboratory sessions cover amplifiers, bridge circuits, and the measurement of physical parameters (temperature, pressure, strain) and electrophysiological signals. 4 credits	Department: Course: Title: Cross-listed: Instructor:	Biomedical Engineering BME 296 BME Design Project Lerner, A,Seidman, S Class Size: 50
Department: Course: Title: Instructor:	Biomedical Engineering BME 251 Biomedical Ultrasound Dalecki, D Class Size: 30	Prerequisites: Restrictions: Exams:	<ul><li>math, science, and engineering courses appropriate for fourth-year students in BME, BME 201, BME 221, BME 230, BME 295, BME 260.</li><li>Open only to senior majors or by permission of instructor Design reports, both oral and written are required throughout the</li></ul>
Prerequisites: Restrictions:	Math 163, Math 164, Physics 122 or Permission of instructor Not open to freshmen and sophomores	Description:	semester. Senior capstone design course in the Biomedical Engineering Program. Students work in teams to design, build, and test a

medical device or instrument for a faculty, community or industrial sponsor. Accompanying lectures and discussions introduce issues related to ethics, economics, project management, regulation, safety, and reliability. 4 credits

Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Biomedical Engineering BME 396 Biomedical Instrumentation Seidman, S Class Size: 20 BME 230 or ECE 241 or permission of instructor 2 mid-terms and 1 comprehensive final exam Course will cover circuits and sensors used to measure physiological systems at an advanced level. Both signal conditioning and sensor characteristics will be addressed. Topics will include measurement of strain, pressure, flow, temperature, biopotentials, data acquisition, and electrical safety.
Department: Course: Title: Cross-listed:	Biomedical Engineering BME 418 Introduction to Neuroengineering
Cross-Instea: Instructor: Prerequisites: Restrictions: Coursework:	ANA 518, BME 218 Pinto, D Class Size: 15 BME260, strong math/computational skills recommended Permission of instructor required 6-7 weekly homeworks before break; after break there will be weekly quizzes based on readings; final project. This is the graduate level of BME 218
Description:	This course introduces many aspects of neuroengineering research, with an emphasis on biologically plausible models of neurons, circuits, and systems.
Department: Course: Title: Instructor: Prerequisites: Description:	Biomedical Engineering BME 442 Cell Motility and Molecular Machines McGrath, J Class Size: 20 permission of instructor From single molecule motors transporting materials within cells to contracting muscle fibers, molecular engines come in a range of sizes and produce some of the most fascinating phenomena in biology. This course teaches the modern theories behind molecular engines, presuming only an elementary background in cell biology and mechanics. Course offered the second 1/2 of the spring semester
Department: Course: Title:	Biomedical Engineering BME 451 Biomedical Ultrasound

Cross-listed:	ECE 451	
Instructor:	, -	ss Size: 30
Prerequisites:	MATH 163, MATH 164, PHYSICS 122 o instructor	r permission of
Coursework:	Course assignments and projects are advant the undergraduate level course.	nced in comparison to
Description:	The physical basis for the use of high-frequencies medicine (diagnosis, therapy, and surgery) include acoustic properties of tissues, soun linear and nonlinear) in tissues, interaction gas bodies( acoustic cavitation and contras non-thermal biological effects of ultrasoun dosimetry, hyperthermia and lithotripsy. T graduate complement to BME251. 4 Cred	and biology. Topics ad propagation (both is of ultrasound with it agents), thermal and id, ultrasonography, This course is the
Department:	Biomedical Engineering	
Course:	BME 452	
Title:	Medical Imaging-Theory & Implementation	on
Cross-listed: Instructor:	ECE 452 Parker, K J Cla	ss Size: 30
Prerequisites:	ECE 242	<b>135 DIZC:</b> 50
Description:	Physics and implementation of X-ray, ultra	asonic, and MR
	imaging systems. Special attention is give	
	transform relations and reconstruction algout ultrasonic-computed tomography, and MR	
Department:	Biomedical Engineering	
Course:	BME 462	
Title:	Cell & Tissue Engineering	
Instructor:	McGrath, J Cla	ss Size: 20
Prerequisites:	BME 260, CHE225, CHE243, CHE244 or instructor	permission of
Exams:	2 mid-terms and 1 final	
Coursework:	Term research paper with presentation	
Description:	This course teaches the principles of mode engineering with a focus on understanding interactions between cells and their environ overview of Cell and Tissue Engineering, t areas of the field. These are: 1) Physiology Engineering; 2) Bioreactors and biomolecu Materials for Tissue Engineering; 4) Cell C bioreactors and 5) Drug Delivery and Drug each of these topics the emphasis is on ana instructors will assume knowledge of chem fluid mechanics, thermodynamics and physic the Cell and Tissue Engineering Track in F	and manipulating the nment. After a brief the course covers 5 7 for Tissue alle production; 3) Cultures and g Discovery. Within alytical skills and nistry, mass transfer, siology consistent with

Department: Course: Title: Instructor: Restrictions: Description:	graduate students must identify a technological need and present orally and in writing a proposal to meet the need. 4 Credits Biomedical Engineering BME 485 Cell & Membrane Mechanics Waugh, R Class Size: 15 Permission of instructor required The primary focus of this course is on the fundamental science underlying the mechanical behavior of cell membranes, with some additional attention given to the mechanical behavior of leukocytes. Our approach is to explore mathematical descriptions of the physical properties biomembrane structures. Basic aspects of the structure and composition of cell membranes	Cross-listed: Instructor: Prerequisites: Exams: Description:	ME 458 Gans, R Class Size: 30 ME 441 ME 441 or equivalent, resaonable fluency in scientific computing ME 441 or equivalent, resaonable fluency in sc 1 mid term exam and a project Theory and application of nonlinear finite element analysis (FEA) with a focus on applications in fluid mechanics. Quick review of basic FEA and generalization to nonlinear situations. Review of fluid mechanics (at the undergraduate level). Linearization and iterative techniques. Illustrations from classical fluids problems. Extension to modern problems. Non-Newtonian fluids (if time allows). There will be a focused project requiring the writing of code. 4 Credits
	are reviewed as a basis for the mathematical treatments. The course is typically taught in the first half of the spring semester. Prerequisites: This course is designed for upper level undergraduates and graduate students. Some background in solid mechanics is required, and some cell biology is desirable. Course offered first 1/2 of spring semester . Course is taught alternate years.	Department: Course: Title: Instructor: Description:	Biomedical Engineering BME 593 Lab Rotations in BME Waugh, R Students rotate in at least 3 different labs during the first year of graduate study to learn of the diversity of research opportunities for PhD research. 2 credits
Department: Course:	Biomedical Engineering BME 486		<b>Chemical Engineering</b>
Title: Cross-listed: Instructor: Prerequisites: Exams: Coursework:	Finite Elements ME 441, ME254 Perucchio, R Class Size: 30 ME226, finite elements & programming capability in Fortran, C, C++ ME 226 Finite elements and programming capability in FORTRAN 2 exams, term project and weekly homework Term project requires the implantation of a finite element	Department: Course: Title: Instructor: Exams: Description:	Chemical Engineering CHE 116 Fundamentals of Computing Weinstein, M <b>Class Size:</b> 30 1 exam and project This 7-week course provides an introduction to Microsoft Excel and its powerful VBA (Visual Basic for Applications)
Description:	program This course provides a thorough grounding on the theory and application of linear finite element analysis in solid and structural mechanics and related disciplines. Topics: matrix structural analysis concepts and computational procedures, review of linear elasticity, variational methods and energy formulation, weighted residual methods and Galerkin techniques, shape functions based on assumed displacements, isoparametric formulation, FE solution of heat transfer problems, global analysis aspects, error estimation and convergence. MATLAB is used extensively througout the course. 4 credits		programming environment. Although chemical engineering concepts are integrated into the curriculum, no prior chemical engineering experience is required. This course will be of value to engineers and analytically oriented individuals of many disciplines. Students will learn and apply a number of general tools/approaches that will facilitate analytical problem solving in a wide variety of situations. Although no prior Excel or programming experience is required, the course does provide instruction on a select set of more advanced topics such as non- linear curve fitting and non-linear optimization. The course meets 2x per week in the Gavett 244 computer lab. Each class will consist of a lecture + hands-on computer time.
Department: Course: Title:	Biomedical Engineering BME 487 Nonlinear Finite Element Analysis	Department: Course: Title:	Chemical Engineering CHE 150 Green Engineering for a Sustainable Environment

Instructor: Restrictions: Coursework:	Chimowitz, E ,Ebenhack, B Class Size: 30 Open only to freshmen & sophomores Only open to Juniors and Seniors of majors other than the offering department		liquid crystals, self-assembled monolayers, surfactants, block copolymers, and biomimetic materials. Homework assignments and a brief technical presentation will be required. Advanced undergraduate students are welcome. 4-credits
Description:	This course will study the issue of green engineering ideas in pursuit of sustainable technology which is emerging as a critical one in advanced industrial societies. By sustainable technology we mean the development of environmentally benign processes that have minimal adverse impact on the surrounding earths ecosystem. This new course will provide an introduction to these issues, focusing upon renewable clean energy technologies, like electrochemically based fuel cell driven power systems that use hydrogen gas as the input fuel, and the prospects for solar power in the future. We will also discuss the current regulatory context and growing interest in this topic amid the world-wide debate about the greenhouse effect, climate change and the potential for	Department: Course: Title: Instructor: Prerequisites: Exams: Description:	Chemical Engineering CHE 231 Chemical Reactor Design Yang, H Class Size: 30 MTH 163, CHE 113 2 hrly exam + final Review of chemical kinetics; methods of kinetic data collection, analysis, and interpretation; calculation of simple reactor designs. Emphasis is on homogeneous uncatalyzed reactions, but heterogeneous and catalyzed reactions are considered. 4-credits
	global warming. 4 Credits	Department: Course:	Chemical Engineering CHE 243
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Coursework: Description:	Chemical Engineering CHE 211 Probability for Chemical Engineers CHE411 Chimowitz, E. MTH161, MHT162 Project and regular homework assignments This course will provide an introduction theory applied to engineering problems. We will study the basic elements of probability theory including the properties of special random variables like the Normal, Poisson and Exponential distributions. Applications to chemical/environmental engineering problems will be discussed as well as the use of statistical simulations using Wiener sampling methods. 2-credits (alternate semesters)	Title: Instructor: Prerequisites: Exams: Coursework: Description: Department: Course: Title: Instructor: Prerequisites: Description:	Fluid Dynamics Foster, D Class Size: 30 PHY 121, MTH 165 (may be concurrent) 2 hourly exams, final weekly homework sets, design project Basic principles of fluid flow, conservation of mass, momentum, laminar flow problems, dimensional analysis, macroscopic balances, and design of fluid flow systems. 4-credits Chemical Engineering CHE 246 ChE Principles Lab Olsen, T ,Ebenhack, B Class Size: 15/section MTH 161, 162 and CHM 103, equivalent Hands-on experience with concepts in phase equilibrium, heat
Department: Course: Title: Cross-listed:	Chemical Engineering CHE 213 Molecular Self-Assembly CHE 413 Anthamatten, M Class Size: 30	<b>F</b>	and mass transfer, and chemical kinetics. Emphasis on measurement techniques, data analysis, and experimental design. Involves structured experiments, open-ended projects, and oral or written reports. 3-credits
Instructor: Prerequisites:	CHE 203 CHE 225 or CHM 251 (or equivalent).	Department:	Chemical Engineering
Restrictions: Coursework:	Permission of instructor required for undergraduates Homework assignments and a technical presentation or paper will	Course: Title:	CHE 250 Separation Processes
Coursework.	be required.	Instructor:	Jorne, J., Class Size: 30
Description:	This four-credit graduate course will provide an overview of several contemporary research topics pertaining to structured organic materials. Lectures will focus on intermolecular interactions and the thermodynamics of self-assembly. Additional lectures will introduce molecular crystals, polymer crystallinity,	Prerequisites: Exams: Description:	CHE 113, CHE 225, CHE 244, or permission of instructor 2 quizzes, final exam, design project Application of mass transfer and thermodynamics to chemical separation techniques. Fundamentals and design of processes such as distillation, absorption, extraction, and crystallization.

Fixed-bed operations, such as ion exchange and chromatography, and membrane processes are also considered. 4-credits

Department: Course: Title: Instructor: Prerequisites: Restrictions: Exams: Description:	Chemical Engineering CHE 272 Process Dynamics and Control Chimowitz, E <b>Class Size:</b> 30 CHE 113, CHE 116 or by permission of instructor. Not open to freshmen and sophomores 1 oral exam. Lectures,problem sets,and design projects. Introduction to the dynamic behavior of chemical engineering systems and to the analysis of feedback control systems. Methods of design of single feedback loops and multivariable systems are covered. 2-credits
Department: Course: Title: Cross-listed: Instructor: Description:	Chemical Engineering CHE 277 Energy Resources & Utilization AAS 277 Ebenhack, B Class Size: 20 Emphasis on technical and development aspects of energy resource problems. Applications of resource exploration and development in energy prospective locales which lack commercial energy development: such as the rift basins and embayments of Africa. Consideration of quality of life impacts of energy. Problems considered include: combustion of fossil fuels for heat and work, combustion products and environmental impact, comparison of fuels on environmental grounds, benefits of energy in social development, technology of energy exploration and development, and economics of energy development and acquisition. 4-credits
Department: Course: Title: Instructor: Description:	Chemical Engineering CHE 279 Chemical Engineering Practices Jorne, J. Class Size: 30 Issues of relevance to the practice of chemical engineering. Topics include basic economic principles and marketing issues, ethics, plant safety, worker education and training and environmental implications in process designs. Students visit a local industry to gain perspective on the scale of a chemical process. Presentations by practicing engineers expose the versatility of a chemical engineering education. 1-credit
Department: Course: Title:	Chemical Engineering CHE 281K Solving UR's Enviro-Footprnt

Cross-listed:	
Instructor:	
<b>Description:</b>	

ANT281K

Ebenhack, B The intent of the course is to develop marketable concepts for the University to consider as opportunities to reduce our impact on the local and global environment. Students will establish teams to analyze data on the energy consumption and greenhouse gas emission of the University from facilities operations and transportation. This situation analysis will cover direct financial costs and indirect external and societal effects. Based on the audit, the student teams will identify opportunities for reducing energy consumption and greenhouse gas emission and then assess their proposed solutions in terms of cost-effectiveness, technical feasibility, and consumer values and motivation to participate in more sustainable solutions. The course is for students with a commitment to doing something meaningful about sustainability globally and locally in Rochester. The student process of developing solutions will be guided by a multidisciplinary team of faculty with expertise in architecture, business, engineering, and social science. The faculty team will not lecture in traditional manner but provide data on University facilities operations, training in team-building, and consultation on business analysis, life cycle energy analysis, cultural analysis and market research, and persuasive business presentations. At the end of the course, student teams will present the results of their work to UR facilities management for action to reduce the environmental footprint of the University.

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Coursework: Description:	Chemical Engineering CHE 411 Introduction to Probability for Chem CHE211 Chimowitz, E MTH 161, MTH162 Project and regular homework assign This course will provide an introduc applied to engineering problems. We elements of probability theory inclue random variables like the Normal, P distributions. Applications to chemic engineering problems will be discus statistical simulations using Wiener	nments tion to probability theory e will study the basic ding the properties of special oisson and Exponential cal/environmental sed as well as the use of
Department:	Chemical Engineering	
Course:	CHE 413	
Title:	Molecular Self-Assembly	
Cross-listed:	CHE 213	
Instructor:	Anthamatten, M	Class Size: 30

Prerequisites: Restrictions: Exams: Coursework: Description:	CHE 225 or CHM 251 (or equivalent). Permission of instructor required for undergraduates two exams Homework assignments and a brief technical presentation or paper will be required. This course will provide an overview of several contemporary research topics pertaining to structured organic materials. Lectures will focus on intermolecular interactions, the thermodynamics of self-assembly, and interfacial phenomena. Specific research topics to be addressed include molecular crystals, polymer crystallinity, liquid crystals, surface functionalization, self-assembled monolayers, surfactants, functional block copolymers, and biomimetic materials. 4-credits
Department: Course: Title: Instructor: Description:	Chemical Engineering CHE 430 Organic Electronics Tang, Ching <b>Class Size:</b> 60 Basic optical and electronic processes of organic molecules and polymers. Charge transport and luminescent properties of organic solids. Metal/organic contacts and charge injection. Applications in thin-film organic electronic devices including organic light emitting diodes, solar cells, photoconductors, and transistors. Review of selected papers. 4 Credits
Department: Course: Title: Instructor: Description:	Chemical Engineering CHE 454 Interfacial Engineering Yates, M Lectures on the fundamentals of colloids and interfaces, systems with high interfacial area and their role in modern processes and products. Topics include interfacial tension, contact angle, adsorption, surfactants, micelles, microemulsions and colloidal dispersions. Techniques for formation and characterization of interfaces and colloids will be reviewed.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Exams: Coursework: Description:	Chemical Engineering CHE 462 Cell & Tissue Engineering BME 462 McGrath, J Class Size: 20 BME 260, CHE 225, CHE 243, CHE 244 or permission of instructor 2 mid-terms and 1 final Term research paper with presentation See BME 462

Department: Course: Title: Cross-listed: Instructor: Description:	Chemical Engineering CHE 466 Microhydrodynamics BME 466 King, M <b>Class Size:</b> 30 In this course we develop insight into the motion of small particles in a viscous fluid. Such problems are encountered in biology, biotechnology, and composite materials processing. Specific topics include flow past spheres and arbitrary bodies, (thermally driven) motion of bubbles and drops, slender body theory, and leading-order inertial corrections. 4-credits
Department: Course: Title: Instructor: Prerequisites: Restrictions: Description:	Chemical Engineering CHE 469 Biotechnology and Bioengineering Wu, J <b>Class Size:</b> 30 BIO 150, CHE 113, CHE 231 Open only to senior majors or by permission of instructor The life science and engineering principles underlying biotechnology processes are covered. The topics include microbial conversions, recombinant DNA, immune technology, and tissue cultures. Emphasis will be on both life science fundamentals and process design. 4-credits
Department: Course: Title: Cross-listed: Instructor: Description:	Chemical Engineering CHE 508 Genes, Development and Disease GEN 508 R. Jiange See GEN 508

# **Electrical & Computer Engineering**

Electrical & Computer Engineering
ECE 113
Circuits and Signals
Hsiang, T Class Size: 30
ECE111, MTH163 or MTH165 or ME163; concurrent with
MTH164 or ME164
2 midterms and 1 final
12 problem sets, 9 labs, and 2 computer-based design projects
Signal representation with applications to circuits: AC circuits and phasors, complex frequency, amplifiers and filters, resonance, two-port networks, Laplace transforms. Fourier series, Fourier transforms.

Title:     Introduction to Computers and Programming     Title:     Interprocessors and Data Conversion       Distructor:     Huang, M.     Class Size: 60       Frams:     5 quizzes, minterm & final canos     Pererquisites:     Conversion: 6 (Fill 12, FCH13, FCH14)       Conversion:     Introduction to principles of well-structured and efficient computer programming the gripticanos     Description:     Description:     Description:       Description:     Introduction to principles of well-structured and efficient computer programming the gripticanos     Description:     Description:     Description:       Description:     Description:     Description:     Description:     Description:     Description:       Description:     Description:     Description:     Description:     Description:     Description:       Description:     Description:     Description:     Description:     Description:       Description:     Description:     Description:     Description:       Description:     Electrical & Computer Inspineding description:     Description:     Description:       Description:     File     Electrical & Computer Inspineding description:     Description:       Description:     File     Electrical & Computer Inspineding description:     Description:       Description:     File     Electrical & Computer Inspineding description:     Descripti	Course:	ECE 114	Course:	ECE 216
Frans:     5 quizzes, miltern & final exams     Percepuisites:     ECI:12, ECE:11.3, ECE:11.4       Coursevort:     10 programming in the C+1 aggregation is computer or guinzation, architecture, operating systems, and programming in the C+1 aggregation is computer or guinzation, architecture, operating systems, and programming in the C+1 aggregation is computer or guinzation, architecture, operating systems, and programming in queenses, and a guinzemming mechanics&F13&F102. Introduction to a computer or guinzation, architecture, operating systems, and programming (ODP)     Description:     Cans Weith Course is on the development of applications written is assembly along one of the C-1 aggregation is the course of with an eccusion on algorithm and course is on the development of applications written is assembly along one or enter, multiplexers, and integrating structures. The programming ind polynom phisms/RE13&F10.6.     Cans Keil 13&F10.5. Data structure primer (linked list, hash table, etc.)       Pepartment:     Electrical & Computer Engineering     Cans Size: 40       Course:     FCC:114 arc CSC171 or permission of Instructor     Department:       Exams:     Final Exam     Cans Size: 40       Description:     Instructions or principles; processor design, pipelining, data and control hazards idapati, and computer arithmetic: memory system design, asign transmitter or file devices inter transmetry system design asign and advectory in the device inter transmetry instructor:       Percepuisites:     FCC:114 arc CSC171 or permission of Instructor     Department:       Exercise:     Electrical & Computer Engineering     Precepuisite:       FC:114 arc CSC171 or perm	Title:	Introduction to Computers and Programming	Title:	Microprocessors and Data Conversion
Conservorts:10 programming assignmentsConservorts:&				
. Description:Introduction to principles of well structured and efficientDescription:Overview of the architecture of microprocessor and embedded micro controller systems. Including the central processing unit, mechanics,				
.g.Description:Description:Overview of the architecture of microprocessor and embedded micro controller systems. Including the central processing unit, memory, bus structures (internal and excitoral such as PCI, USB, complex.tyt.#13.g.Discription:Description:Description:openational systemsConservers, and apole conservers, and apol	Instructor:	0,	Instructor:	,
Description:       Introduction to principles of well-structured and efficient computer programming in the C+1 language. Topics evered:&f3.x8102.1 Introduction to computer organization, architecture, operating systems, and programming mechanics:x813.x8102.1 Introduction to algorithm and complexity:R31.x810.2. Interview structures: The Programming language studies and poly morphisms/8413.x810.4. C++&f13.x810.5. Data structure primer (linked list, hash table, etc.)       Description:       Description:       Overview of the architecture of naicoprocessor and embedded interview structures. The float tructor:       Description:       Overview of the architecture of naicoprocessor complexity:R31.x810.2.         Pepartment:       Electrical & Computer Engineering EXams:       Electrical & Computer All hash and comport organization       Description:       Department:       Electrical & Computer structures/ and analysis of digital and analge contrest, assign, Assignment structor:       Department:       Electrical & Computer structures and analysis of digital and analge. Interview structures will be analyzed and thera includes a laboratory which integrates both experimental design and analysis and computer struitance. Inter	Exams:	5 quizzes, midterm & final exams	Prerequisites:	ECE112, ECE113, ECE114
<ul> <li>computer programming in the C++ language. Topics</li> <li>covered: Add:3Add*10.1. Introduction to computer organization, architecture.operating systems and programming incomplex systems and programming.</li> <li>architecture.operating systems and programming (OOP)</li> <li>philosophy, principles, and mechanisms (computer)</li> <li>philosophy, principles, and mechanisms (computer)</li> <li>abstraction, intertance, and polymorphism)2df13dd*10.4.</li> <li>Pergarimming language fundamentals and OOP with C++&amp;El (SAII)0.4.</li> <li>Pregramming language fundamentals and OOP with C++&amp;El (SAII)0.5.</li> <li>Pepartment:</li> <li>Pleatrical &amp; Computer Trigineering</li> <li>ECE 114 or CSC11 or permission of Instructor</li> <li>Prerequisites:</li> <li>ECE 114 or CSC11 or permission of Instructor</li> <li>Prerequisites:</li> <li>ECE 114 or CSC11 or permission of Instructor</li> <li>Prerequisites:</li> <li>Final Exam</li> <li>Final Exam</li> <li>Pepartment:</li> <li>Final Exam</li> <li>Pepartment:</li> <li>Final Exam</li> <li>Poerription:</li> <li>Instruction set principles; processor design, ipielining, data and concurre and looffs involved in the micromoressor design, ipielining, data and modern microprocessor design, ipielining, data and concurre and looffs involved in the processor design, ipielining, data and concurre and looffs involved in the processor design, ipielining, data and concurre and looffs involved in the processor design in the data interview interview in the data interview interview in the data interview inteview interview interview interview interview interview intervi</li></ul>	Coursework:	10 programming assignments	Coursework:	
<ul> <li>ververd. &amp;P13.&amp;P102. Introduction to computer organization, architecture, operating systems and programming (OOP) epilosophy, principles, and mechanisms(encapsulation, abstraction, inheritance, and polymorphism)&amp;P13.&amp;P104.</li> <li>by philosophy, principles, and mechanisms(encapsulation, abstraction, inheritance, and polymorphism)&amp;P13.&amp;P104.</li> <li>by philosophy, principles, and mechanisms(encapsulation, abstraction, inheritance, and polymorphism)&amp;P13.&amp;P104.</li> <li>by philosophy, principles, and mechanisms(encapsulation, abstraction, inheritance, and polymorphism)&amp;P13.&amp;P104.</li> <li>by philosophy, principles, and mechanisms(encapsulation, abstraction, inheritance, and polymorphism)&amp;P13.&amp;P104.</li> <li>be partment: Electrical &amp; Computer Engineering</li> <li>Course: ECE 200</li> <li>Deyartment: Electrical &amp; Computer Engineering</li> <li>Exams: Final Exam</li> <li>Final Exam</li> <li>Control Marzads: datapath and computer arithmetic; memory systems; I/O and professor design, pipelining, data and control hazards: datapath and computer working. Students hear the challenges, opportunities, and tradeoffs morobie in metaborities, memory systems; I/O and propheral devices; internetworking. Students hear the challenges, opportunities, and tradeoffs morobie in metaborities, memory systems; I/O and propheral devices; internetworking. Students hear the challenges, opportunities, and tradeoffs morobie in metaborities and excepted in market or professor design. Assignments and labs involve processor and memory subsystem design using hardware description: Assignments and labs involve processor and memory subsystem design using hardware description and interpreted devices; metaborting. Students the structure: With excepted shareds: datapath and computer arithmetic; memory systems; I/O and peripheral devices; internetworking. Students hear the challenges, opportunities, and tradeoffs morobie in metaborting. Students hear the challenges, opportanties, and tradeoffs morobie</li></ul>	Description:	Introduction to principles of well-structured and efficient	<b>Description:</b>	Overview of the architecture of microprocessor and embedded
<ul> <li>architecture, operating systems, and programming</li></ul>		computer programming in the C++ language. Topics		micro-controller systems. Including the central processing unit,
<ul> <li>mechanics:&amp;i J3:&amp;i 10:2. Introduction to algorithm and complexity.ki 13:&amp;i 10:3. Object-oriented programming language such as C or philosophy, principles, and mechanisms(encapsulation, abstraction, inheritance, and polymorphism)&amp;i 13:&amp;i 10:4.</li> <li>Pogramming language fondamentals and OOP with etc.)</li> <li>Programming language fondamentals and OOP with etc.)</li> <li>Pogramming language fondamentals and OOP with etc.)</li> <li>Pograming language fondamentals and OOP with etc.)</li> <li>Pograming language fondamentals and OOP with etc.)</li> <li>Pograming language fondamentals and OOP with etc.)</li> <li>Porequisities:</li> <li>Porequisities:</li></ul>		covered: 1. Introduction to computer organization,		memory, bus structures (internal and external such as PCI, USB,
<ul> <li>mechanics:&amp;i J3:&amp;i 10:2. Introduction to algorithm and complexity.ki 13:&amp;i 10:3. Object-oriented programming language such as C or philosophy, principles, and mechanisms(encapsulation, abstraction, inheritance, and polymorphism)&amp;i 13:&amp;i 10:4.</li> <li>Pogramming language fondamentals and OOP with etc.)</li> <li>Programming language fondamentals and OOP with etc.)</li> <li>Pogramming language fondamentals and OOP with etc.)</li> <li>Pograming language fondamentals and OOP with etc.)</li> <li>Pograming language fondamentals and OOP with etc.)</li> <li>Pograming language fondamentals and OOP with etc.)</li> <li>Porequisities:</li> <li>Porequisities:</li></ul>		architecture, operating systems, and programming		CAN GPIB), I/O including programmable peripheral interface
<ul> <li>philosophy, principles, and mechanisms(encapulation, abstraction, inheritance, and polymorphism)				
x87104.</li> <li>programming language guidamentals and OOP with C++				
i;ё. Data structure primer (linked list, hash table, etc.)</li> <li>pepartment:</li> <li>Electrical &amp; Computer Engineering</li> <li>Course:</li> <li>ECE 200</li> <li>Prerequisites:</li> <li>ECE 14 or CSC171 or permission of Instructor</li> <li>Dery H.</li> <li>Class Size: 40</li> <li>Prerequisites:</li> <li>Final Exam</li> <li>Control hazards; datapath and computer arithmetic; memory systems; U:O and peripheral devices in interaction list, and tradeoffs involved in modern microprocessor design, pipelining, data and control hazards; datapath and computer arithmetic; memory systems; U:O and peripheral devices; Internet/vorking, Students</li> <li>ECE 210</li> <li>Description:</li> <li>Description:</li> <li>Description:</li> <li>Description:</li> <li>Description:</li> <li>Department:</li> <li>Electrical &amp; Computer Engineering course</li> <li>ECE 200</li> <li>Description:</li> <li>Description:</li></ul>		mechanics; 2. Introduction to algorithm and		controllers. Timer/counters, analog-to-digital converters, digital-
<ul> <li>abstraction, inheritance, and polymorphism)				
x#10;4.</li> <li>Programming language fundamentals and OOP with C++ 5. Data structure primer (linked list, hash table, etc.)</li> <li>Department:</li> <li>Electrical &amp; Computer Engineering</li> <li>Course:</li> <li>ECE 200</li> <li>Title:</li> <li>Computer Organization</li> <li>Instructor:</li> <li>Derorption:</li> <li>Instruction set principles; processor design, pipelining, data and course's field Example. Joint functions and transmission of lastructor</li> <li>Department:</li> <li>Electrical &amp; Computer Scientists and Engineers Instruction set principles; processor design, nipelining, data and course's description languages (HDL).</li> <li>Department:</li> <li>Electrical &amp; Computer Engineering</li> <li>Course:</li> <li>ECE 210</li> <li>Title:</li> <li>Department:</li> <li>Electrical &amp; Computer Engineering</li> <li>Course work:</li> <li>Bechard &amp; Computer Engineering</li> <li>Course With and the course design using hardware description:</li> <li>Department:</li> <li>Electrical &amp; Computer Engineering</li> <li>Coursework:</li> <li>Milteron Metro Accessing and Engineers</li> <li>Course Work:</li> <li>Milteron Metro Accessing and Engineers</li> <li>Coursework:</li> <li>Miltoro Miltoro Accessing and Engineers</li> <li>Coursework:</li> <li>Miltoro, Apple and Application, interprotection, and analysis of design and analysis and computer simulation.</li> <li>Precequisites:</li> <li>Coursework:</li> <li>Miltoro Accessing and Power Circuits.</li> <li>Description:</li> <li>Des</li></ul>		complexity 3. Object-oriented programming (OOP)		to-analog converters, multiplexers, and interrupt structures. The
<ul> <li>betration, inheritance, and polymorphism)				
.4.</li> <li>Programming language fundamentals and OOP with C++				
: .5. Data structure primer (linked list, hash table, etc.)</li> <li>Department:</li> <li>Electrical &amp; Computer Engineering</li> <li>Course:</li> <li>ECE 114 or CSC171 or permission of Instructor</li> <li>Prorequisites:</li> <li>ECE 114 or CSC171 or permission of Instructor</li> <li>Department:</li> <li>Electrical &amp; Computer Signeens of Linstructor</li> <li>Department:</li> <li>Electrical &amp; Computer Signeens of Linstructor</li> <li>Department:</li> <li>ECE 114 or CSC171 or permission of Instructor</li> <li>Department:</li> <li>ECE 114 or CSC171 or permission of Instructor</li> <li>Department:</li> <li>ECE 114 or CSC171 or permission of Instructor</li> <li>Department:</li> <li>ECE 114 or CSC171 or permission of Instructor</li> <li>Department:</li> <li>ECE 114 or CSC171 or permission of Instructor</li> <li>Department:</li> <li>ECE 114 or CSC171 or permission of Instructor</li> <li>Department:</li> <li>ECE 114 or CSC171 or permission of Instructor</li> <li>Department:</li> <li>ECE 114 or CSC171 or permission of Instructor</li> <li>Department:</li> <li>Electrical &amp; Computer Engineering</li> <li>Course or design A signeents and labs involve in modern metroprocessor design avising hardware description languages (HDL).</li> <li>Department:</li> <li>Electrical &amp; Computer Engineering</li> <li>Course work:</li> <li>Mitter A final</li> <li>Course or design A signeents and labs involve in modern metrop and below in processing and device models will be developed and applied.</li> <li>Specific circuit structures will be anady of design and analysis of digital and analog integrated circuits. Technologies, such as NMOS, CMOS, GaAs, Bipolar, and Bioroborne (Lins Size: 60</li> <li>Prerequisites:</li> <li>Department:</li> <li>Electrical &amp; Computer</li></ul>		philosophy, principles, and mechanisms(encapsulation,		focus is on the development of applications written in assembly
Programming language fundamentals and OOP with C++&Efficient methods for designing and developing programs for embedded microcomputer systems will be covered with an emphasis on processing data from peripheral devices in real-time applications. Serial and parallel I/O, interrupt applications, use of A/D and D/A converters, and applications of timer/counters are studied, with special attention given to interfacing the microcontroller to the analog world.         Department:       Electrical & Computer Organization       Class Size: 40         Prerequisites:       Final Exam       Department:       Electrical & Computer arithmeir, emmory systems; I/O and peripheral devices; internetworking, Students learn the challenges, opportunities, and tradeoffs involved in modern microprocessor design, asignments and labs involve processor and memory subsystem design using hardware description languages (HDL).       Department:       Electrical & Computer Engineering to curse; Ger 210         Department:       Electrical & Computer Engineering Course:       Course; Ger 210       Course; Ger 221         Department:       Electrical & Computer Engineering Course; Mottley       Calse Size: 60       An introduction to the design and analysis of digital and analog integrated circuits structures will be analyzed and herp integrated circuits structures will be analyzed and herp integrated circuits structures will be developed and and processing and device opend applical.         Description:       MTH 163 or MTH 163, PHY 122       Specific circuit structures will be analyzed and herp integrated will be analyzed and interpretect.         Course:       Gerurse; Orgenationis and (non-electrical) econcepts will		abstraction, inheritance, and polymorphism) 4.		language and in high level programming language such as C or
C-i- 5: Data structure primer (linked list, hash table, etc.)       for embedded microcomputer systems will be covered with an emphasis on processing data from peripheral devices in real-time applications. Serial and parallel 1/O, interrupt applications, use of A/D and D/A converters, and applications, use of A/D and D/A converters, and applications, use of A/D and D/A converters, and applications or timer/counters are studied, with special attention given to interfacing the microcontroller to the analog world.         Department:       Electrical & Computer Organization       Department:       Electrical & Computer Organization         Instructor:       Dery, H.       Class Size: 40       Department:       Electrical & Computer Sign estimation given to interfacing the microcontroller to the analog world.         Description:       Instructors et principles; processor design, pipelining, data and control hazards; datapath and computer arithmetic; memory systems; I/O and peripheral devices; internetvorking. Students learn the challenges, opportunities, and tradeoffs involved in modern microprocessor design using hardware description languages (HDL).       Title:       Coursevork:       Midterm & final         Department:       Electrical & Computer Engineering Course:       Class Size: 60       Specific circuit structures will be analysis of digital and analysis of digital and analysis of digital and analysis of coursevork:         Course:       Electrical & Computer Engineering Course:       Class Size: 60       Specific circuit structures will be analysis of digital and analysis of an analysis of digital and analysis of digital and analysis of an analysis of digital and analysis and c		Programming language fundamentals and OOP with		
<ul> <li>etc.)</li> <li></li></ul>				
Department:       Electrical & Computer Engineering       A/D and D/A converters, and applications, use of         Course:       ECE 200       studied, with special attention given to interfacing the microcontroller to the analog world.         Title:       Computer Organization       microcontroller to the analog world.         Prerequisites:       ECE 114 or CSC171 or permission of Instructor       Department:       Electrical & Computer Engineering         Description:       Instructions et principles; processor design, pipelining, data and control hazards; datapath and computer arithmetic; memory systems; 1/O and peripheral device; internetworking. Student, microporcessor dasign, epipelinal dasi involve in modern microprocessor design using hardware description languages (HDL).       Title:       Instructor:       H. Wu       Class Size: 20         Perequisites:       ECE 210       Coursewick:       Noneworks and labs       Description:       An introduction to the design and analysis of digital and analog integrated circuits. Technologies, such as NMOS, CMOS, GaAs, Bijolar, and Bi/CMOS will be discussed. Semiconductor procession and memory subsystem design using hardware description:       Course       CE 210       Secription:       An introduction to the design and analysis of digital and analog integrated divice models will be developed and applied.       Specific circuit structures will be analysed and their (microper requisites: EC 210         Title:       Crusis and Microcontrollers for Scientists and Engineers       ECE 210       Specific circuit structures will be onalory and t		•		
Department:       Electrical & Computer Engineering       A/D and D/A converters, and applications of timer/counters are studied, with special attention given to interfacing the microcontroller to the analog world.         Instructor:       Derr, H.       Class Size: 40         Prerequisities:       ECE 114 or CSC171 or permission of Instructor       Department:       Electrical & Computer Engineering         Exams:       Final Exam       Course:       ECE 222         Description:       Instruction set principles; processor design, pipelining, data and control hazards; datapath and computer arithmetic; memory systems; I/O and peripheral devices; internetworking. Students learn the challenges, opportunities, and tradeoffs involved in modern microprocessor design. Assignments and labs involve processor and memory subsystem design using hardware description languages (HDL).       Prerequisites:       ECE 210         Course:       ECE 210       Caursework:       homeworks and labs       Description:         The:       Instructor:       Northely       Class Size: 40       Secret prince: second applied.         Prerequisites:       ECE 210       Coursework:       homeworks and labs       Bipolar, and BiCMOS will be discussed. Semiconductor processing and device models will be analyzed and their time/frequency responses evaluated and interpreted. The course includes a laboratory which integrates both experimental design and analysis of digital design and analysis of digital design and analysis and computer arithmetic: remory subsystem design using hardware description:       Cau				
Course:       ECE 200       studied, with special attention given to interfacing the microcontroller to the analog world.         Title:       Computer Organization       studied, with special attention given to interfacing the microcontroller to the analog world.         Prerequisites:       ECE 114 or CSC171 or permission of Instructor       Department:       Electrical & Computer Engineering       Course:         Description:       Instruction set principles; processor design, pipelining, data and control hazards; datapath and computer arithmetic; memory systems; I/O and peripheral devices; internetworking. Students learn the challenges, opportunities, and tradeoffs involved in moder microprocessor design, Assignments and labs involve processor and memory subsystem design using hardware description languages (HDL).       Prerequisites:       Class Size: 20         Department:       Electrical & Computer Engineering       Class Size: 20       Prevenuisites:       Mitterm & final         Course:       ECE 210       Anitroduction to the design and analysis of digital and analog integrated circuit structures will be analysis of digital and analog integrated circuit structure will be analysis of digital and analog integrated circuit structure will be analysis of digital and analog modern interpreted. The course includes a laboratory which integrates both experimental design and analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.         Department:       Electrical & Computer Engineering       Course work:       Electrical & Computer Simulation Systems       Course work:       Course will b	Department:	Electrical & Computer Engineering		
Title:Computer Organizationmicrocontroller to the analog world.Instructor:Dery, H.Class Size: 40Prerequisites:ECE 114 or CSC171 or permission of InstructorDepartment:Electrical & Computer EngineeringExams:Final ExamCourse:ECE 222Description:Instruction set principles: processor design, pipelining, data and control hazards; datapath and computer arithmetic; memory systems; 1/0 and peripheral devices; internetworking. Students learn the challenges, opportunities, and tradeoffs involved in modern microprocessor design. Assignments and labs involve processor and memory subsystem design using hardware description languages (HDL).Mitter of final Coursework:Coursework:Department:Electrical & Computer Engineering Course:Course Sign and device models will be developed and applied. Specific circuit structures will be analyzed and their time/frequency responses evaluated and interpreted. The course includes a laboratory which intergrates both experimental design and analysis and computer simulation. Problem sets and assigned ta and analysis and computer simulation. Problem sets and assigned ta and analysis and computer simulation. Problem sets and assigned techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifres, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Department:Electrical & Computer Engineering processing and deals; MATLAB required Description:Department:Electrical & Controlling Motors and Power Circuits.Department:Electrical & Computer sinulation.Department:Electrical & Computer sinul				
Instructor:       Dery, H.       Class Size: 40         Prerequisites:       ECE 114 or CSC171 or permission of Instructor       Department:       Electrical & Computer Engineering         Exams:       Final Exam       Course:       ECE 222         Description:       Instruction set principles; processor design, pipelining, data and control hazards; datapath and computer arithmetic; memory subsystems; I/O and peripheral devices; internetworking. Students learn the challenges, opportunities, and tradeoffs involved in modern microprocessor design. Assignments and labs involve processor and memory subsystem design using hardware description languages (HDL).       Title:       Instructor:       H. Wu       Class Size: 20         Department:       Electrical & Computer Engineering       Coursework:       homeworks and labs       Description:       An introduction to the design and analysis of digital and analog integrated circuits. Technologies, such as NMOS, CMOS, GAAS, Bipolar, and BiCMOS will be developed and applied. Specific circuit structures will be analyzed and their         Course:       ECE 210       Specific circuit structures will be analyzed and their         Title:       Mottley       Class Size: 60       Specific circuit structures will be analyzed and their         Prerequisites:       Mottley       Class Size: 60       Specific circuit structures will be analyzed and their         Prerequisites:       Mottley       Course will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontro	Title:	Computer Organization		
Exame:       Final Exam       Course:       ECE 222         Description:       Instruction set principles; processor design, pipeling, data and computer arithmetic; memory systems; 1/0 and peripheral devices; internetworking. Students learn the challenges, opportunities, and tradeoffs involved in modern microprocessor design. Assignments and labs involve processor and memory subsystem design using hardware description languages (HDL).       Midterm & final       Class Size: 20         Prerequisites:       ECE 221       Midterm & final       Coursework:       Midterm & final         Department:       Electrical & Computer Engineering       Coursework:       An introduction to the design and analysis of digital and analog integrated circuits. Technologies, such as NMOS, CMOS, GaAs, Bipolar, and BiCMOS will be discussed. Semiconductor         Title:       Circuits and Microcontrollers for Scientists and Engineers       Specific circuit structures will be analyzed and their         Instructor:       Mottley       Class Size: 60       Specific circuit structures will be analyzed and their         Prerequisites:       Mit 163 or MTH 165, PHY 122       analysis and computer simulation. Problem sets and assigned         Exams:       3 in class exams       Coursework:       Electrical & Computer Engineering         Coursework:       & #13;        Coursework:       Electrical & Computer simulation. Problem sets and assigned         Description:       A cedit hour course, with laboratory, intended for physical scientis	Instructor:			
Exame:       Final Exam       Course:       ECE 222         Description:       Instruction set principles; processor design, pipeling, data and computer arithmetic; memory systems; 1/0 and peripheral devices; internetworking. Students learn the challenges, opportunities, and tradeoffs involved in modern microprocessor design. Assignments and labs involve processor and memory subsystem design using hardware description languages (HDL).       Midterm & final       Class Size: 20         Prerequisites:       ECE 221       Midterm & final       Coursework:       Midterm & final         Department:       Electrical & Computer Engineering       Coursework:       An introduction to the design and analysis of digital and analog integrated circuits. Technologies, such as NMOS, CMOS, GaAs, Bipolar, and BiCMOS will be discussed. Semiconductor         Title:       Circuits and Microcontrollers for Scientists and Engineers       Specific circuit structures will be analyzed and their         Instructor:       Mottley       Class Size: 60       Specific circuit structures will be analyzed and their         Prerequisites:       Mit 163 or MTH 165, PHY 122       analysis and computer simulation. Problem sets and assigned         Exams:       3 in class exams       Coursework:       Electrical & Computer Engineering         Coursework:       & #13;        Coursework:       Electrical & Computer simulation. Problem sets and assigned         Description:       A cedit hour course, with laboratory, intended for physical scientis	Prerequisites:	ECE 114 or CSC171 or permission of Instructor	<b>Department:</b>	Electrical & Computer Engineering
control hazards; datapath and computer arithmetic; memory systems; I/O and peripheral devices; internetworking. Students learn the challenges, opportunities, and tradeoffs involved in modern microprocessor design. Assignments and labs involve processor and memory subsystem design using hardware description languages (HDL).Instructor:H. WuClass Size: 20Department:Electrical & Computer Engineering CoursewDescription:An introduction to the design and analysis of digital and analog integrated circuits. Technologies, such as NMOS, CMOS, GaAs, Bipolar, and BiCMOS will be discussed. Semiconductor processing and device models will be developed and applied. Specific circuit structures will be analyzed and their time/frequency response evaluated and interpreted. The course includes a laboratory which integrates both experimental design and analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.Description:Description: 4 credit hour course, with laboratory, intended for physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Scoond Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Department: ELectrical Scomputer Engineering Coursework: ECE 241, MTH201Coursework:ECE 241, MTH201Exams:Midterm and final Coursework: Scources, Operational Amplifiers, Analysis Techniques, First and Scoond Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.	Exams:	Final Exam	Course:	ECE 222
<ul> <li>systems; I/O and peripheral devices; internetworking. Students learn the challenges, opportunities, and tradeoffs involved in modern microprocessor design. Assignments and labs involve processor and memory subsystem design using hardware description languages (HDL).</li> <li>Department: Electrical &amp; Computer Engineering Course: ECE 210</li> <li>Title: Circuits and Microcontrollers for Scientists and Engineers Instructor: Mottley Class Size: 60</li> <li>Prerequisites: MTH 163 or MTH 165, PHY 122</li> <li>Exams: 3 in calse exams</li> <li>Coursework: &amp; #13; </li> <li>Description: 4 credit hour course, with laboratory, intended for physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques; Current, Voltage, Components, Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.</li> <li>Description: Bererequisites: ECE 241, MTH201</li> <li>Exams: Midterm ad final</li> <li>Coursework: Kill be developed based on modern needs and techniques; Current, Voltage, Components, Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.</li> </ul>	Description:	Instruction set principles; processor design, pipelining, data and	Title:	
learn the challenges, opportunities, and tradeoffs involved in modern microprocessor design. Assignments and labs involve processor and memory subsystem design using hardware description languages (HDL).Exams: Coursework: Description:Midterm & final homeworks and labs Description:Department: Course: ECE 210Electrical & Computer Engineering Course: Title:Electrical & Computer Engineering Course: ECE 210An introduction to the design and analysis of digital and analog integrated circuits. Technologies, such as NMOS, CMOS, GaAs, Bipolar, and BiCMOS will be discussed. Semiconductor processing and device models will be developed and applied. Specific circuit structures will be analyzed and their Title:Instructor: Coursework: Coursework:Mottley (Lass Size: 60Specific circuit structures will be analyzed and their time/frequency responses evaluated and interpreted. The course includes a laboratory which integrates both experimental design and analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.Coursework: (Sursework: (#113; #1163 or MTH 165, PHY 122 (Cass Size: 60)Department: (Electrical & Computer simulation. Problem sets and assigned reading will be handed out regularly.Prerequisites: (Coursework: (Surget, Will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sources, Controlling Motors and Power Circuits.Prerequisites: (Coursework: (Ve) in Matlab band labs; M		control hazards; datapath and computer arithmetic; memory	Instructor:	H. Wu Class Size: 20
modern microprocessor design. Assignments and labs involve processor and memory subsystem design using hardware description languages (HDL).Course Description:homeworks and labsDepartment:Electrical & Computer Engineering Course:An introduction to the design and analysis of digital and analog integrated circuits. Technologies, such as NMOS, CMOS, GAAs, Bipolar, and BiCMOS will be discussed. Semiconductor processing and device models will be developed and applied. Specific circuit structures will be analyzed and their orcourse work:Department:Electrical & Computer Engineering Circuits and Microcontrollers for Scientists and Engineers Instructor:Class Size: 60Prerequisites:MTH 163 or MTH 165, PHY 122 3 in calss examsand analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.Coursework:& #13, #10;Description:Description: 4 credit hour course, with laboratory, intended for physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Department: Description:ECE 241, MTH201 Exams: Coursework: Birder mand final Exams: Midtern and final Bescription:Class Size: 40		systems; I/O and peripheral devices; internetworking. Students	<b>Prerequisites:</b>	ECE 221
processor and memory subsystem design using hardware description languages (HDL).Description:An introduction to the design and analysis of digital and analog integrated circuits. Technologies, such as NMOS, CMOS, GaAs, Bipolar, and BiCMOS will be descussed. Semiconductor processing and device models will be developed and applied. Specific circuit structures will be analyzed and their time/frequency responses evaluated and interpreted. The course includes a laboratory which integrates both experimental design and analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.Description:Description: 4 credit hour course, with laboratory, intended for physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Description:Description:Class Size: 40Prerequisites:KCC 242 Coursework: Description:Course: Course: Course: Course: Course: Course:Class Size: 40Prevenguisites:Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, and AC, Controlling Motors and Power Circuits.Department: Description:ECE 241, MTH201 Coursework: 			Exams:	Midterm & final
description languages (HDL).       integrated circuits. Technologies, such as NMOS, CMOS, GaAs, Bipolar, and BiCMOS will be discussed. Semiconductor         Department:       Electrical & Computer Engineering       processing and device models will be developed and applied.         Course:       ECE 210       Specific circuit structures will be analyzed and their         Title:       Circuits and Microcontrollers for Scientists and Engineers       Specific circuit structures will be analyzed and interpreted. The course         Instructor:       Mottley       Class Size: 60       includes a laboratory which integrates both experimental design         Prerequisites:       MTH 163 or MTH 165, PHY 122       and analysis and computer simulation. Problem sets and assigned         Coursework:         Electrical       Course:         Description:       Description: 4 credit hour course, with laboratory, intended for physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.       Prerequisites:       ECE 241, MTH201         Bipolar, and Bib and labs; MATLAB required       Coursework:       five/bin Matlab band labs; MATLAB required			-	
Department:Electrical & Computer EngineeringBipolar, and BiCMOS will be discussed. Semiconductor processing and device models will be developed and applied. Specific circuit structures will be analyzed and their time/frequency response evaluated and interpreted. The course includes a laboratory which integrates both experimental design and analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.Prerequisites:MTH 163 or MTH 165, PHY 122 and analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.Coursework: Physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Description:Description:Class Size: 40 Sources, MATLAB required Coursework: Gursework:Exams:AC, Controlling Motors and Power Circuits.First and Secoription:Prerequisites: Coursework: Gursework:Class Size: 40 Sharma, G.Class and AC, Controlling Motors and Power Circuits.Coursework: Coursework:Firequisites: Firequisites:Class MATLAB required Description: Coursework:			<b>Description:</b>	
Department:Electrical & Computer Engineeringprocessing and device models will be developed and applied.Course:ECE 210Specific circuit structures will be analyzed and theirTitle:Circuits and Microcontrollers for Scientists and Engineerstime/frequency response evaluated and interpreted. The courseInstructor:MottleyClass Size: 60includes a laboratory which integrates both experimental designPrerequisites:MTH 163 or MTH 165, PHY 122and analysis and computer simulation. Problem sets and assignedExams:3 in calss examseading will be handed out regularly.Coursework:				
Electrical & Computer EngineeringDescription:Description: 4 credit hour course, with laboratory, intended for physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, and AC, Controlling Motors and Power Circuits.Instructor:Sharma, G. Prerequisites: EVE 241, MTH201Exams:Midterm and final and AC, Controlling Motors and Power Circuits.Coursework: Description:Midtab band labs; MATLAB required Description: Analog signal transmission		description languages (HDL).		
Course:ECE 210Specific circuit structures will be analyzed and theirTitle:Circuits and Microcontrollers for Scientists and EngineersSpecific circuit structures will be analyzed and theirInstructor:MottleyClass Size: 60includes a laboratory which integrates both experimental design and analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.Coursework:& #13; Description:Description: 4 credit hour course, with laboratory, intended for physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits.Department;Elect 242 Coursework:Class Size: 40Prerequisites:ECE 241, MTH201 Exams:Midterm and final Coursework:Frerequisites:ECE 241, MTH201 Exams:				
Title:Circuits and Microcontrollers for Scientists and Engineerstime/frequency responses evaluated and interpreted. The courseInstructor:MottleyClass Size: 60includes a laboratory which integrates both experimental design and analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.Prerequisites:MTH 163 or MTH 165, PHY 122and analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.Coursework:				
Electrical physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, and AC, Controlling Motors and Power Circuits.Instructor:Sharma, G.Class Size: 40Coursework:Kidtern and final and AC, Controlling Motors and Power Circuits.Coursework: Exams:Midtern and final Koreschiption:Coursework: five/bin Matlab band labs; MATLAB required	Department:	Electrical & Computer Engineering		
Instructor:MottleyClass Size: 60includes a laboratory which integrates both experimental design and analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.Prerequisites:MTH 163 or MTH 165, PHY 122 3 in calss exams Coursework:and analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.Coursework: Description:Description: 4 credit hour course, with laboratory, intended for physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Instructor:Sharma, G. ECE 241, MTH201 Exams:Class Size: 40Coursework:midterm and final Coursework:Coursework: five/bin Matlab band labs; MATLAB required Communication systems overview, Analog signal transmission				
Prerequisites:MTH 163 or MTH 165, PHY 122and analysis and computer simulation. Problem sets and assigned reading will be handed out regularly.Coursework:				
Description:Description: 4 credit hour course, with laboratory, intended for physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Department:Electrical & Computer Engineering Course:Class Size: 40Prerequisites:ECE 241, MTH201Exams:Midterm and final Coursework: five/bin Matlab band labs; MATLAB required Communication systems overview, Analog signal transmission				
Exams:3 in calss examsreading will be handed out regularly.Coursework:				
Description:Description: 4 credit hour course, with laboratory, intended for physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Department: Course:Electrical & Computer Engineering ECE 242Freequisites:Course:ECE 242Course:Class Size: 40Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Prerequisites:Exams:Midterm and final Coursework: five/bin Matlab band labs; MATLAB required Description:Coursework:five/bin Matlab band labs; MATLAB required Description:				
Coursework: Description: Description:Description: 4 credit hour course, with laboratory, intended for physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Department: Course: Electrical Course: Bepartment: Course: ECE 242 Course: Sharma, G.Class Size: 40 Class Size: 40Course: Description:ECE 241, MTH201 Exams: Midterm and final Coursework: five/bin Matlab band labs; MATLAB required Description:	_			
Description:       Description: 4 credit hour course, with laboratory, intended for physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.       Department: Coursework: First and Coursework: first ming with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.       Department: Coursework: first ming with Mathematical course is provided based on modern needs and transmission				reading will be handed out regularly.
physical scientists and (non-electrical) engineers. Electrical concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Course: Course:ECE 242Communications Systems Instructor:Sharma, G.Class Size: 40Course:ECE 241, MTH201Exams:Midterm and finalCoursework:five/bin Matlab band labs; MATLAB requiredDescription:Communication systems overview, Analog signal transmission	-		-	
concepts will be developed based on modern needs and techniques: Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Title:Communications SystemsTitle:Communications SystemsCommunications SystemsClass Size: 40Prerequisites:ECE 241, MTH201Exams:Midterm and finalCoursework:five/bin Matlab band labs; MATLAB requiredDescription:Communication systems overview, Analog signal transmission	Description:	· ·	-	
techniques:Current, Voltage, Components, Microcontrollers, Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Instructor:Sharma, G.Class Size: 40Verequisites:Prerequisites:ECE 241, MTH201Exams:Midterm and finalCoursework:five/bin Matlab band labs; MATLAB requiredDescription:Communication systems overview, Analog signal transmission				
Sources, Operational Amplifiers, Analysis Techniques, First and Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Prerequisites: Exams:ECE 241, MTH201 Midterm and final five/bin Matlab band labs; MATLAB required Communication systems overview, Analog signal transmission				
Second Order Circuits, Timing with Microcontrollers, Sinusoids and AC, Controlling Motors and Power Circuits.Exams:Midterm and finalDescription:Coursework: Description:five/bin Matlab band labs; MATLAB required Communication systems overview, Analog signal transmission				
and AC, Controlling Motors and Power Circuits.Coursework: Description:five/bin Matlab band labs; MATLAB required Communication systems overview, Analog signal transmission			_	
<b>Description:</b> Communication systems overview, Analog signal transmission				
		and AC, Controlling Motors and Power Circuits.	-	
<b>Department:</b> Electrical & Computer Engineering and reception, Amplitude and Frequency Modulation: bandwith,			Description:	
	Department:	Electrical & Computer Engineering		and reception, Amplitude and Frequency Modulation: bandwith,

power, and complexity trade-offs, elements of random processes. Noise in communication systems, Performance of analog communication systems in the presence of noise. Digital communication system overview, Sampling and quantization, Digital baseband transmisson over aditive white Gaussian noise channels, Optimum reeiver principles, Baseband binary PAM and matched filter receiver, Geometric signal representaion. Introductory information theory.

Department: Course: Title: Cross-listed:	Electrical & Computer Engineering ECE 245 Wireless Communications ECE445
-	-
Instructor:	W. Heinzelman Class Size: 30
Prerequisites:	ECE 242 or 244 or permission of instructor
Exams:	Midterm and final
Coursework:	Bi-weekly homework assignments. Term Project. 
<b>Description:</b>	This course teaches the underlying concepts behind traditional cellular radio and wireless data networks (e.g., channel modeling, modulation, media-access, channel coding) as well as design trade-offs among RF bandwith, transmitter and receiver power and cost, and system performance. This course will provide an in-depth look at modern cellular systems, wireless local area and personal area networks, ad-hoc data networks, and sensor networks. Topics will include media access control, routing, flow control, and cross-layer architectures. Issues such as quality of service (QoS), energy conservation, reliability and mobility management will be discussed. Students will be required to complete a semester-long research project related to the theme of this course.
Department:	Electrical & Computer Engineering
Course:	ECE 262
Title:	Advanced CMOS VLSI Design
Cross-listed:	ECE 462
Instructor:	T. Soyata
<b>Prerequisites:</b>	ECE261 or ECE222
Coursework:	1 large VLSI design project
Description:	Review of CMOS Subsystem design. Team project on complex digital systems, such as a simple microprocessor, a self-timed multiplier, or a digital filter. Project design requirements include architectural design, logic and timing verification, layout design, and test pattern generation. The resulting VLSI chips may be fabricated.
Department:	Electrical and Computer Engineering

Course: Title: Instructor: Prerequisites: Description:	ECE 349 Senior Design Bocko, M. Must have taken all courses designated for the chosen concentration option. All courses in the first 7 semesters of this progra Senior design course. Prior faculty approval required or design project proposal.
Department: Course: Title: Instructor: Prerequisites: Coursework:	Electrical & Computer Engineering ECE 399 Junior Seminar Mottley, J. <b>Class Size:</b> 50 Accepted as an ECE Major Participation in course discussions, write many one page reaction papers, 2 longer papers (3-6 pages) on two different topics, one with revision.
Description:	Study of ethical, social, economic and safety considerations that arise in engineering practice by discussion of appropriate novels, movies, essays, videos and other materials. Presentations by outside speakers. Required course for all electrical and computer engineering students.
Department: Course: Title: Instructor: Prerequisites: Exams: Coursework: Description:	Electrical & Computer Engineering ECE 443 Mobile Communications Vosoughi, A Class Size: 15 ECE 440, ECE 444 midterm, final  In this course we study mobile wireless communications with emphasis on physical layer issues. The course begins with a brief review of current mobile wireless systems and standards. We then characterize the mobile radio channels (path loss, shadowing, multipath fading effects, frequency selective and time dispersive channels). We consider the performance of practical digital modulation schemes under wireless channel impairments, and investigate transmitter and receiver design techniques that will improve the performance. The design strategies that will be covered includes: adaptive modulation, diversity techniques (time, frequency, and spatial diversity), equalization, multicarrier modulation (OFDM), spread spectrum (CDMA), multiple transmit and receive antennas (MIMO, spatial multiplexing, space-time coding). The course concludes with studying multi- user wireless systems and multiple access schemes.

Department: Course:	Electrical & Computer Engineering ECE 445		and test pattern generation. The resulting VLSI chips may be fabricated.
Title: Cross-listed:	Wireless Communications ECE 245	Donortmonte	Electrical & Computer Engineering
Instructor:	Heinzelman, W. Class Size: 40	Department: Course:	Electrical & Computer Engineering ECE 463
	ECE242 and ECE 244 or permission of Instructor	Title:	VLSI Error Control Systems
Prerequisites: Exams:	midterm and final	Instructor:	
			1 /
Coursework: Description:	Bi-weekly homework assignments. Term project. This course teaches the underlying concepts behind traditional cellular radio and wireless data networks (e.g., channel modeling modulation, media-access, channel coding) as well as design trade-offs among RF bandwith, transmitter and receiver power and cost, and system performance. This course will provide an in-depth look at modern cellular systems, wireless local area and personal area networks, ad-hoc data networks, and sensor networks. Topics will include media access control, routing, flo control, and cross-layer architectures. Issues such as quality of service (QoS), energy conservation, reliability and mobility management will be discussed. Students will be required to complete a semester-long research project related to the theme o	l w	ECE461 or permission of Instructor Device scaling beyond 100nm presents unique reliability challenges for future electronic systems. As these nanometer- scale transistors are integrated onto a single chip, error rates are expected to degrade due to increased susceptibility to noise and PVT variations. This course reviews the reliability challenges introduced by the multi-core gigascale integration era, and discusses circuit, architectural, and algorithm level solutions to address them. The course draws from lectures, assigned readings, discussions, guest lectures, student presentations, review reports of the research literature, computer simulations and modeling, design projects of varying complexity, and a final scholarly paper. It is intended for students interested in pursuing research in
	this course.	-	reliability and error control of complex systems and networks-on- chip.
Department:	Electrical & Computer Engineering		
Course:	ECE 452	Department:	Electrical & Computer Engineering
Title:	Medical Imaging - Theory and Implementation	Course:	ECE 465
Cross-listed:	OPT 452	Title:	Performance Issues in VLSI/IC Design & Analysis
Instructor:	Parker, K. J. Class Size: 20	Instructor:	Friedman, E. Class Size: 30
Prerequisites:	ECE 242	<b>Restrictions:</b>	Permission of instructor required
Exams:	Midterm and Final Project	Exams:	1 midterm, 1 final report, 1 topical presentation
Coursework:	Weekly problem sets, matlab simulations, extensive simulations	Coursework:	Reading course; participation in discussions and lead discussions
	and image analysis.		for a number of papers.
Description:	Physics and implementation of X-ray, ultrasonic, and MR imaging systems. Special attention given to the Fourier transforr relations and reconstruction algorithms of X-ray and ultrasonic-computed tomography, and MRI.	<b>Description:</b> n	Primary and recent research in the fields of high performance digital and analog VLSI design and analysis. Provides background and insight into some of the more active performance related research topics of the field such as CMOS design techniques, speed/area/power tradeoffs in CMOS circuits, low
Department: Course:	Electrical & Computer Engineering ECE 462		power design, RLC interconnect, synchronization and clock distribution, pipelining/retiming, and many other related areas.
Title:	Advanced CMOS VLSI Design		
Cross-listed:	ECE262	Department:	Electrical & Computer Engineering
Instructor:	Soyata, T. Class Size: 20	Course:	ECE 467
Prerequisites:	ECE261 or ECE222	Title:	Advanced Analog Integrated Circuit Design
Coursework:	1 large VLSI design project.	Instructor:	Z. Ignjatovic Class Size: 20
<b>Description:</b>	Review of CMOS Subsystem design. Team project on complex	Prerequisites:	ECE113 and ECE221
-	digital systems, such as a simple microprocessor, a self-timed	Exams:	mid-term, final, design project
	multiplier, or a digital filter. Project design requirements includ architectural design, logic and timing verification, layout design		Lecture, homework

Description:	Analysis and design of analog CMOS integrated circuits. MOS and bipolar device structures and models. Modern opamp design with noise, offset and distortion anaylsis, feedback, frequency compensation, and stability. Current mirrors and bandgap references. Sampling devices and structures. Switched-capacitor filters and other digital and digital-to-analog converters. Requires more advanced design projects and use of design aids or		part of the course is comprised of student and lecturer presentations of selected spintronics topics which may include: spin transistors, magnetic random access memories, spin-based logic paradigms, spin-based lasers and light emitting diodes, magnetic semiconductors, spin-torque devices for memory applications and the spin Hall effect.
	tools. Includes material on CAD tools for analog design including simulation and synthesis.	Department: Course:	Electrical & Computer Engineering ECE 580
Department: Course: Title: Instructor: Prerequisites: Coursework: Description:	Electrical & Computer Engineering ECE 471 Computational Music D. Hedlam   Fundamentals of computational music representation including	Title: Instructor: Restrictions: Description:	Nano-Electro-Opto-BioFauchet, P.Class Size: 20Permission of instructor required for undergraduatesNanoscience (giving nanometer-size objects properties theirconstituent material does not have in Nature) and nanotechnology(the use of these objects to perform useful functions in devices)allow scientists and engineers to routinely do what was longthought to be impossible. The purposes of this course are to
Description	selected topics in music theory and analysis, encoding and interpretation of music information by computers, musical sound programming, automated music transcription, musical applications of information and communication theory, human- computer music interfaces and music informatics.		provide an introduction to the scientific foundations of nanoscience and the materials science that makes it possible, and to focus on developments in three major domains of applications, electronics, photonics, and biosensing.  Graduate students from all the engineering departments, physics, and chemistry should find
Department: Course: Title:	Electrical & Computer Engineering ECE 472 Audio Signal Processing for Analysis and Synthesis of Music M. Bocko 5-4879		this course of interest. Graduate students from other departments or qualified undergraduate students may enroll with permission of the instructor.
Instructor: Description:	Acoustics and Digital Signal Processing techniques applied to the analysis and synthesis of musical sound. Topics will include sampling, quantization and audio quality metrics, time-frequency	Department	Mechanical Engineering
	analysis and sound representations, audio filter design and implementation, musical sound synthesis techniques including spectral-based synthesis and physical modeling - additional special topics based on class interests.	Department: Course: Title: Instructor: Restrictions:	Mechanical Engineering ME 110 Introduction to CAD Ronald, C. Class Size: 30 Permission of Department required
Department: Course: Title: Instructor: Prerequisites:	Electrical & Computer Engineering ECE 520 Spin-based electronics: theory, devices & applications H. Dery Class Size: 30 Permission of Instructor & familiarity with elementary quantum mechanics	Exams: Description:	2 exams, midterm and a final This course covers engineering drawing, and modeling using the Computer Aided Design software Pro/ENGINEER. Topics include orthographic projections, solid modeling, assemblies, and dimensioning. Students will complete the course with a fundamental ability to create and understand solid modeling, and
Coursework: Description:	 The course is intended for students who are interested in research frontiers of future electronics technologies. The course begins with introduction to the basic physics of magnetism and of		engineering drawings using state of the art PC CAD software. Lectures will make use of a computer projection screen as well as 30 individual computers.
	quantum mechanical spin. Then it covers aspects of spin transport with emphasis on spin-diffusion in semiconductors. The second	Department: Course: Title:	Mechanical Engineering ME 120 Engineering Mechanics I Statics

Instructor: Prerequisites: Exams: Description:	systems; equilibrium. Plane t sections; space trusses; frames areas, and volumes; center of internal forces in beams; distr	Class Size: 90 algebra; forces; moments; force russes; method of joints; method of s and machines. Centroids of lines, mass. Distributed loads on beams; ibuted loads on cables; hydrostatics. a friction; friction in machines.	Instructor: Coursework: Description:	surveying; soils and foundation timber frames and roofing syst hydraulics and water systems;	on from antiquity to the pre- duction to statics, strength of n; building materials; geometry and ns; columns and trabeated systems;
Department:	Mechanical Engineering				Antiquities, the Middle Ages, and
Course:	ME 123		D	non-European civilizations.	
Title: Instructor:	Thermodynamics Ren, C.	Class Size: 40	Department: Course:	Mechanical Engineering ME 213	
Prerequisites:	MTH 162, Physics 121	Class Size: 40	Title:	Mechanical Systems	
Restrictions:	Permission of instructor requi	red for freshmen	Instructor:	Gans, R.	Class Size: 30-40
Exams:	3 hourly exams plus a 3-hr fin		Prerequisites:	ME 121, ME 226, MTH 163, M	
Coursework:		gned reading, numerous homework	Exams:	2 exams, project	
000000000000000000000000000000000000000	problems, problem-solving we		Description:	Free and forced vibration in or	ne, two, and many degrees-of-
Description:	Course Content: thermodynamic equilibrium, and processes; er simple compressible substance and transient states; entropy a	mic systems, properties, nergy and the first law; properties of es; control volume analysis; steady nd the second law, general	-	freedom systems. Complex rep methods, applications. Laplace control theory.	
	per week, assigned reading, n	thod of Instruction: three lectures umerous homework problems,	Department: Course:	Mechanical Engineering ME 222	
	problem-solving workshops.		Title: Cross-listed:	Introduction to Robust Design ME 424	and Quality Engineering
Department: Course:	Mechanical Engineering ME 205		Instructor: Prerequisites:	Funkenbusch, P. ME 164 or Equivalent	Class Size: 30
Title:	Advanced Mechanical Design		Exams:	2-3 exams	
Instructor:	Becene, A.	Class Size: 35	Description:	Description: Definition and pu	rsuit of "quality" as a design
Prerequisites:	ME 204		Description		st design. Selection of the quality
Exams:	One Exam				f noise, and experimental design to
Coursework:		l design projects including concept rk, written reports and oral		improve robustness. Analysis	
	presentations.		Department:	Mechanical Engineering	
<b>Description:</b>		curricula by drawing on all skills	Course:	ME 223	
	-	oughout the previous four years. It	Title:	Heat Transfer	
	e i	es of team design projects requiring	Instructor:	Lambropoulos, J.	Class Size: 50
	students to design and test the		Prerequisites:	ME 123, ME 225, and MTH 1	
	e	n, manufacturing methods, project	Exams: Coursework:	Two 75-minute exams and a the	
	design challenges	cs appropriate for the specific	Description:	Ten homework assignments ar Review of thermodynamic con	
Department:	Mechanical Engineering				in walls, cylinders, and spheres;
Course:	ME 206			cooling fins. Transient heat co	
Title:	Building Engineering and Tec	chnology in Antiquity			in plane walls; transient conduction
1111.	Banang Engineering and Tee	morogy manuquity		systems, transient conduction	in plane wans, transferit conduction

in semi-infinite solids. Numerical analysis of conduction; finite difference analysis; one-dimensional steady conduction; twodimensional steady conduction; transient conduction. Fundamentals of convection; fluid flow and heat transfer; energy equation; convective heat transfer from flat plate; use of dimensional analysis. External forced convection; flow over flat plates; flow past cylinders and spheres; flow across tube banks. Internal forced convection; thermal analysis of flow in tubes; laminar flow in tubes; turbulent flow in tubes. Heat exchangers; overall heat transfer coefficient; log mean temperature analysis; effectiveness-NTU method.

Department:	Mechanical Engineering
Course:	ME 226
Title:	Introduction to Solid Mechanics
Instructor:	Gracewski, S. Class Size: 40-60
Prerequisites:	ME 120
Exams:	2 tests plus final
Coursework:	Weekly homework, 2 labs
Description:	Loads and displacements, stress and strain in solid medium. Laws
	of elasticity. Mechanical properties of materials. Thermal
	stresses. Axial loading. Pressure vessels. Plane stress and plane
	strain. Torsion and bending of beams. Energy methods. Buckling.
Department:	Mechanical Engineering
Course:	ME 232
Title:	Opto-Mechanics
Cross-listed:	ME 432, OPT 232, OPT 432
Instructor:	Genberg, V.
Exams:	(2) Open Book
Coursework:	Homework: Weekly assignments Project: Required for ME
	432. Mechanical design and analysis of an optical system
	subjected to environmental loads. Text: (not required, reference
	only) Yoder, Opto-Mechanical Systems Design, 3rd Ed, SPIE
<b>Description:</b>	The mechanical design and analysis of optical components and
	systems will be studied. Topics will include kinematic mounting
	of optical elements, the analysis of adhesive bonds, and the
	influence of environmental effects such as gravity, temperature,
	and vibration on the performance of optical systems. Additional
	topics include analysis of adaptive optics, the design of
	lightweight mirrors, thermo-optic and stress-optic (stress
	birefringence) effects. Emphasis will be placed on integrated
	analysis which includes the data transfer between optical design
	codes and mechanical FEA codes. A term project is required for ME 432.
	WIE 432.

power reactors, the nuclear fuel cycle, and the regulatory environment surrounding nuclear power in the United States **Department:** Mechanical Engineering Course: ME 281 Title: Mechanical Properties of Solids **Cross-listed:** ME 481, MSC 409, MSC 203 Gao, J. Class Size: 70 **Instructor:** ME 280, MTH 163 or equivalent **Prerequisites:** Exams: 2 take-home exams, final project **Description:** The mechanical response of crystalline (metals, ceramics, semiconductors) and amorphous solids (glasses, polymers) and their composites in terms of the relationships between stress, strain, damage, fracture, strain-rate, temperature, and microstructure. Topics include: (1) Material structure and property overview. (2) Isotropic and anisotropic elasticity and viscoelasticity. (3) Properties of composites. (4) Plasticity. (5) Point and line defects. (6) Interfacial and volumetric defects. (7) Yield surfaces and flow rules in plasticity of polycrystals and single crystals. (8) Macro and micro aspects of fractures in metals, ceramics and polymers.(9) Creep and superplasticity. (10) Deformation and fracture mechanism maps. (11) Fatigue damage

ME 241

Gans, R. ME 225

**ME 253** 

Gordon Verdin

Fluid & Thermal Engineering Laboratory

make a final poster presentation of its work.

Introduction to Nuclear Engineering

course. Introductory Lecture(s) on lab practice and data analysis.

acquisitions and some basic instrumentation. In the second part,

The lab itself consists of two parts: The first part uses simple

experiments to familiarize the student with computer data

students (working in groups of three) perform independent experimental projects. The course has significant writing content

and makes formal use of the Writing Center. In addition to

A first course in nuclear engineering with emphasis on the fundamental physics and technology of modern water-cooled

and failure; fracture and failure in composites (If time permits).

written and oral laboratory reports, each group is expected to

One quiz, early in the semester.

Mechanical Engineering

Class Size: 50

Course:

**Instructor:** 

**Prerequisites:** 

**Description:** 

**Department:** 

**Instructor:** 

**Description:** 

Course:

Title:

Title:

Exams:

**Department:** Mechanical Engineering

Doportmont

Department: Course: Mechanical Engineering ME 401

Title: Instructor:	Methods of Applied Mathematics Thomas, J. Class Size: 15		birefringence) effects. Emphasis will be placed on integrated analysis which includes the data transfer between optical design
Prerequisites:	ME201/MTH281 (Boundary-Value Problems), MTH282 (Complex Variables), or equivalent courses.		codes and mechanical FEA codes. A term project is required for ME 432.
Exams:	Midterm and final		
Coursework:	Three hours a week of lectures; weekly problem sets.	Department:	Mechanical Engineering
<b>Description:</b>	Description: First-order linear and nonlinear ordinary differential	Course:	ME 435
	equations (ODEs). Second-order ODEs in the real and complex	Title:	Intro. to Plasma Physics II
	domains: power series solutions, singular points, special functions; integral representations, analytic continuation;	Cross-listed: Instructor:	PHY 455 Meyerhofer, D. Class Size: 10
	eigenvalue problems, Sturm-Liouville theory; Greens functions.	Prerequisites:	ME 434 or consent of the instructor
	Nonlinear second-order ODEs and dynamical systems: phase-	Description:	Vlasov equation, Landau damping. VanKampen modes, shield
	plane methods; periodic solutions, limit cycles; stability,	Description	clouds, two-stream instability, micro-instabilities, nonlinear
	Liapunov methods; introduction to bifurcation theory, strange		instability theory, laser-plasma interactions.
	attractors and chaos. Perturbation methods and asymptotic		5 57 1
	methods: regular and singular perturbations, boundary layers;	Department:	Mechanical Engineering
	asymptotic series; asymptotic evaluation of integrals; WKBJ	Course:	ME 443
	method.	Title:	Applied Vibrations
Department:	Mechanical Engineering	Instructor:	Gracewski, S.
Course:	ME 424	Prerequisites:	ME 213
Title:	Introduction to Robust Design and Quality Engineering	Description:	The objectives of this course are to obtain a deeper understanding
Cross-listed: Instructor:	ME 222 Funkenbusch, P. Class Size: 30		of vibrating systems and to learn a variety of numerical, analytical, and experimental techniques for obtaining the dynamic
Prerequisites:	ME 164 or equivalent		characteristics and response of a system. In particular, an
Exams:	2-3 exams		introduction to the numerical techniques underlying finite
Description:	Description: Definition and pursuit of "quality" as a design		element computer codes will be discussed. NASTRAN will be
I	criterion. The concept of robust design. Selection of the quality		used to obtain finite element results. Mathematica will be used
	characteristic, incorporation of noise, and experimental design to		for numerical calculations and to obtain plots of results. Vibration
	improve robustness. Analysis and interpretation of results.		measurement techniques will be demonstrated and there will be 1
-			or 2 labs that include both experiments and analysis. Both
Department:	Mechanical Engineering		discrete and continuous models will be considered, including the
Course:	ME 432		vibration of strings, beams, and membranes. Free, steady state,
Title: Cross-listed:	Opto-Mechanics ME 232		and transient responses will be discussed.
Instructor:	Genberg, V.	Department:	Mechanical Engineering
Exams:	(2) Open Book	Course:	ME 458
Coursework:	Homework: Weekly assignments Project: Required for ME	Title:	Nonlinear Finite Elements Analysis
	432. Mechanical design and analysis of an optical system	Cross-listed:	BME 487
	subjected to environmental loads. Text: (not required, reference	Instructor:	Perucchio, R
	only) Yoder, Opto-Mechanical Systems Design, 3rd Ed, SPI	<b>Prerequisites:</b>	ME 441 or equivalent, reasonable fluency in scientific computing
<b>Description:</b>	The mechanical design and analysis of optical components and	Exams:	1 midterm exam and a project
	systems will be studied. Topics will include kinematic mounting	<b>Description:</b>	The theory and application of nonlinear finite element analysis in
	of optical elements, the analysis of adhesive bonds, and the		solid mechanics. Topics: generalization of FE concepts, review
	influence of environmental effects such as gravity, temperature,		of solid mechanics, nonlinear incremental analysis, displacement
	and vibration on the performance of optical systems. Additional		based FE formulation for large displacements and large strains,
	topics include analysis of adaptive optics, the design of		nonlinear constitutive relations, incompressibility and contact
	lightweight mirrors, thermo-optic and stress-optic (stress		

conditions, rubberlike materials, biomechanical materials, inelastic material.

Department: Course: Title: Cross-listed: Instructor: Prerequisites: Exams: Description:	Mechanical Engineering ME 463 Microstructures MSC 408 Li, J. Class Size: 30 ME 280 1 or 2 midterms and a final Point, line, 2-D and 3-D defects. Diffusion of interstitial and substitutional solutes. Random walk and correlation effects. Thermal diffusion. Irreversible thermodynamics. Diffusion- induced stresses. Dos;pcatopms. graom bpimdaroes and interfaces. Precipitates and inclusions. Amorphous materials, polymers, and composite structures.
Department: Course: Title: Cross-listed: Instructor: Prerequisites: Exams: Description:	Mechanical Engineering ME 481 Mechanical Properties of Solids ME 281, MSC 409, MSC 203 Gao, J. ME 280, MTH 163 or equivalent 2 take-home exams, final project The mechanical response of crystalline (metals, ceramics, semiconductors)and amorphous solids (glasses, polymers) and their composites in terms of the relationships between stress, strain, damage, fracture, strain-rate, temperature, and microstructure. Topics include: (1) Material structure and property overview. (2) Isotropic and anisotropic elasticity and viscoelasticity. (3) Properties of composites. (4) Plasticity. (5) Point and line defects. (6) Interfacial and volumetric defects. (7) Yield surfaces and flow rules in plasticity of polycrystals and single crystals. (8) Macro and micro aspects of fractures in metals, ceramics and polymers.(9) Creep and superplasticity. (10) Deformation and fracture mechanism maps. (11) Fatigue damage and failure; fracture and failure in composites (If time permits).
Department: Course: Title: Cross-listed: Instructor: Exams: Description:	Mechanical Engineering ME 535 Laser Plasma Interactions PHY 553 Maximov, A. Class Size: 15 1 midterm exam and 1 final exam Breakeven conditions for inertial confinement fusion. The coronal plasma. Inverse bremsstrahlung absorption. Resonance

absorption. Parametric instabilities. Nonlinear plasma waves. Zakharov equations and collapse.

Department:	Mechanical Engineering
Course:	ME 545
Title:	Advanced Topics in Plasma Science
Cross-listed:	PHY 493
Instructor:	Betti, R.

## **Optics**

Department: Course: Title: Instructor: Prerequisites: Description:	Optics OPT 223 Quantum Theory of Optical Materials and Devices Lukas Novotny <b>Class Size:</b> 30 PHY 123 or 143, MTH 281 (may be taken concurrently) This course is an introduction to quantum mechanics in the context of modern optics and optical technology. The course starts with a historical sketch followed by a short review of statistical mechanics. After a discussion of Lagrangian and Hamiltonian mechanics, Schroedinger's equation is introduced and the postulates of quantum mechanics are explained. Once the foundation is established the following important topics are studied: - Scattering & tunneling of free particles (electron diffrac.,tunneljunctions) - Particles in confined structures (quantum wells/wires/dots) - Free electron gas (density of states in one, two and three dimensions) - Bound particles (hydrogen atom, atomic structure, periodic table) - Quantum harmonic oscillator (phonons, creation and annihilation operators) - Particles in periodic potentials (energy bands, insulators/semiconductors/metals) - Perturbation theory (time- independent and time-dependent) - Interaction of optical radiation with matter (absorption and emission, optical properties of materials)
Department: Course: Title: Instructor: Prerequisites: Description:	Optics OPT 241 Geometrical Optics Jim Zavislan Class Size: 50 MTH 161, PHY 121 may be taken concurrently Optical instruments and their use. First-order Gaussian optics and thin-lens system layout. Photometric theory applied to optical systems. The eye, magnifier, microscope, matrix optics, nature of Seidel aberrations. Optics students must also sign up for OPT 197, the 1-credit lab for this course.

Course: Title: Instructor: Prerequisites: Description:	OPT 243 Optical Fabrication and Testing Laboratory Jacobs, S. Optics seniors only (or with permission of instructor) Fabrication of a plane parallel plate, lens, or prism from a variety of optical glasses; controlled loose abrasive grinding pitch polishing skills; optical metrology, including interferometry and evaluation of roughness.	Inst Pre: Des Dep
Department: Course: Title: Instructor: Prerequisites: Restrictions: Description:	Optics OPT 256 Optics Laboratory Ken Teegarden,David Berg <b>Class Size:</b> 16 OPT 242, OPT 261, OPT 262 Open only to senior majors or by permission of instructor Intensive laboratory course with experiments on optical imaging systems, testing of optical instruments, diffraction, interference, holography, lasers, detectors, spectroscopic instruments. Optics Seniors should take this course in the Fall semester. OPT 257 Optics Laboratory II is offered along with OPT 256 in the spring	Cou Title Inst Pres Res Dese
Department: Course: Title: Instructor: Prerequisites: Description:	Optics OPT 261 Interference and Diffraction James Fienup MTH 164 PHY 122 or 142 Complex representation of waves; scalar diffraction theory; Fresnel and Fraunhofer diffraction and application to measurement; diffraction and image formation; optical transfer function; coherent optical systems, optical data processing, and holography.	Dep Cou Titl Inst Res Des
Department: Course: Title: Instructor: Prerequisites: Description:	Optics OPT 262 Electromagnetic Theory Andrew Berger Class Size: 30 MTH 163 or 165, 164 PHY 122 or 142 Vector analysis, Maxwell's equations, electromagnetic waves in free space, dielectrics and conductors, energy flow in electromagnetic fields, dipole radiation from Lorentz atoms, dispersion, reflection and transmission, polarization, birefringence.	Dep Cou Title Res Des
Department: Course: Title: Cross-listed:	Optics OPT 287 Math Methods for Optics and Physics MTH 287	

Instructor: Prerequisites: Description:	Miguel Alonso MTH 164, ME 201/MTH 281 This course introduces techniques used optical phenomena. Emphasis is place experience in the use of these powerfu describing, solving and resolving optic	d on gaining insight and Il and elegant tools for
Department: Course: Fitle: Instructor: Prerequisites:	Optics OPT 300 Current Optics and Optics Technology Douglas Goodman OPT 241, 224, 242, 256, 261, and 262 concurrently	
Restrictions: Description:	Not open to freshmen and sophomores The course prepares students for caree engineering by providing a broadly-ba technology, techniques and trends in o is likely to change from year to year, b as: Advanced detection systems, semi optical system performance specification	ers in optical science or used overview of current optics. The course content out will cover topics such iconductor optoelectronics,
Department: Course: Fitle: Instructor: Restrictions: Description:	Optics OPT 396 Honors Project Brown, T. Permission of instructor required The Undergraduate Honors Program a offered to those seniors who have qual and have an overall grade point averag fall semester of their junior year. Qual two semesters (8 semester hours of creater the supervision of an optics faculty me	lified for the optics major ge of at least 3.6 after the ifying students will spend edit) doing research under

### William E. Simon Graduate School of Business Administration

Simon School	
ACC 201	
Principles of Accounting	Class Size: 40-60
Permission of instructor required for fi	reshmen
An introduction to the principles and p	procedures used by
organizations to record economic trans	sactions that affect them,
and to report the net effect of these tra	nsactions to interested
external parties. The course will cover	r the judgment inherent in
certain aspects of the recording and re-	
acceptable alternatives for recording a	given transaction, and the
	ACC 201 Principles of Accounting Permission of instructor required for f An introduction to the principles and p organizations to record economic trans and to report the net effect of these tra external parties. The course will cove

effect these judgements and alternatives have on comparisons of financial reports for different organizations, and on the usefulness of financial reports in general. Also covered will be cases where the financial reports fail to fully incorporate the economic condition of an organization, and why.

Department: Course: Title: Prerequisites: Description:	Simon School ACC 221 Cost Accounting Class Size: 35 ACC 201 A study of the accounting problems involved in determining, analyzing, and controlling production and distribution costs, and income determination for financial statements. Budgetary control, standard costs, and other topics are discussed from the viewpoint of management use in planning and control.	
Department: Course: Title: Restrictions: Description:	Simon School BSI 241 Fundamentals of Personnel Administration <b>Class Size:</b> 20-25 Not open to freshmen and sophomores An introduction to how human resources are managed to maximize employee and organizational goals. Current human resource issues are explored. Topics include strategic planning, staffing, training and development, compensation, benefits, health and safety, union relations, and laws governing how organizations must treat people.	]
Department: Course: Title: Prerequisites: Description:	Simon School CIS 225 Data Management Class Size: 10 CIS 215 An in-depth study of data management, data processing, and database techniques. Topics include input and output processing; data structures; sequential, direct and indexed access methods; report generation; and theory and practice of database management systems. Microsoft ACCESS is used to design and use several databases.	
Department: Course: Title: Prerequisites: Restrictions: Description:	Simon School FIN 205 Financial Management Class Size: 45-55 ACC 201; ECO 207 or equivalent Not open to freshmen and sophomores Permission of instructor required for freshmen This course provides a market oriented framework for analyzing the major types of financial decisions made by corporations. Discounted cashflow techniques are introduced and applied to the	1

capital budgeting problem (the choice among alternative investment projects) and financial asset valuation. Security markets are discussed and topics of capital market efficiency and portfolio theory introduced. The effects of capital structure and dividend policy on the value of the firm are analyzed.

Department: Course: Title: Instructor: Prerequisites: Restrictions: Exams: Coursework: Description:	Simon School FIN 206 Investments Kurt Wojdat Class Size: 25 MTH210, FIN205 Not open to freshmen and sophomores three or four exams The course will consist of lectures and class discussions. Lecture notes will be handed out, but the student is responsible for all of the discussion occurring during a class. The course will focus on financial investments. Coverage will include securities markets and how they work. Stock price behavior will be studied. This study will include topics such as market efficiency and the relationship of market efficiency to technical analysis. The study will also include anomalies; and behavioral finance. The structure of financial derivatives will be discussed. This discussion will focus on options, including the Black Scholes option pricing model, forwards, futures and swaps, as well as the use of these vehicles in hedging. Bonds will be examined along with the concepts of duration and reinvestment risk, and hybrids such as convertible securities will also be examined. Mutual funds will be studied along with other topics such as arbitrage pricing theory and multifactor models of risk and return. If time permits, topics such as financial statement analysis and international finance may be covered.
Department: Course: Title:	Simon School GBA 157 Fundamentals of Business - Why Businesses Succeed and Fail <b>Class Size:</b> 30-34
Restrictions: Description:	Not open to freshmen and sophomores An introduction to the principles of business, examining a wide range of problems businesses face today, using commercial successes and failures. The issues include how companies should consider identifying the markets for their products, leadership and motivation of employees, fund raising considerations and ethical issues facing business men and women. The class concludes with small group presentations and presentation of a modified business plan which integrates information studied during the semester.
Department:	Simon School

Course: Title: Restrictions: Description:	LAW 205 Business Law Class Size: 30-40 Not open to freshmen and sophomores A study of basic principles in several fields of law of significance to businesses, including the formation and legal liability of business organizations. This will be preceded by a review of certain environmental and historical aspects of the law, including the legal processes by which our laws are created, the functions of the courts and the rule of law in American society. Throughout, the emphasis is on developing an understanding of the reasoning process used by the courts to resolve disputes and define new law.
Department: Course: Title: Prerequisites: Description:	Simon School MKT 203 Principles of Marketing <b>Class Size:</b> 30 ACC 201; ECO 207 or equivalent A broad overview of the marketing function in the modern organization, with a central focus on customers and the management of response to their needs, expectations and behaviors. Study covers the evolution of 20th century marketing theory and practice, the emergence of technology-driven relationship marketing, and the robust nature of traditional marketing theory. Students gain practical experience applying strategic knowledge and tools to the market planning process. Upon completion students understand marketing's deep impact within organizations, with ability to recognize and use marketing concepts in real world settings.
Department: Course: Title: Prerequisites: Description:	Simon School MKT 213 Marketing Projects and Cases <b>Class Size:</b> 20 MKT 203 This is a course that provides the student with an opportunity to focus on the practical application, in a real world business(profit or not-for-profit)environment of sound marketing principles and concepts. Students will be assigned to work with a local organization in terms of addressing a specific marketing opportunity or issue in the form of the development of a marketing plan for the organization. The typical marketing plan would include recommendations in the areas of: product, price, promotion and distribution, and overall marketing strategy. Student support in terms of problem analysis and marketing plan creation will be provided in the form of: case studies, guest speakers, and selected readings and lectures. Upon completion of the course, the student should be able to effectively develop and deploy a sound marketing plan.