

The College: Arts & Sciences

African & African-American Studies

Department: African & African-American Studies
Course: AAS 106
Title: Colonial and Contemporary Africa
Cross-listed: HIS 106/ANT 248
Instructor: Mandala, E.
Exams: Midterm and final
Coursework: One 10-15 page paper
Description: Please see HIS 102 for the course description.

Department: African & African-American Studies
Course: AAS 122
Title: History of Jazz
Cross-listed: MUR 122
Instructor: Burgett, P. **Class Size:** 80
Coursework: three exams, one paper
Description: Please see MUR 122 for the course description.

Department: African & African-American Studies
Course: AAS 221
Title: Birth and Death I: Vital Events in Our Personal Lives
Cross-listed: ANT 218/WSL 217/PM 407/WSL 217
Instructor: Carter, A. **Class Size:** 40
Coursework: One 75 minute exam, one 3 hour cumulative final exam, and a research paper/project
Description: Please see ANT 218 for the course description.

Department: African & African-American Studies
Course: AAS 225
Title: Race and Political Representation
Cross-listed: PSC 225/PSC 225W/PSC 525
Instructor: Chapman, V. **Class Size:** 15
Description: Please see PSC 225 for the course description.

Department: African & African-American Studies
Course: AAS 226
Title: Black Paris
Cross-listed: FR 247
Instructor: Kemedjio, C. **Class Size:** 15
Description: This course is a study of Black Paris, as imagined by three generations of Black cultural producers from the United

States, the Caribbean and Africa. Paris is as a space of freedom and artistic glory that African America writers, soldiers and artists were denied back home. For colonized Africans, and Caribbeans, Paris was the birthplace of the Negritude, the ultimate cultural renaissance influenced by the Harlem Renaissance. From Josephine Baker, Richard Wright, James Baldwin to Shay Youngblood's Black girl in Paris, from Aime Cesaire to Maryse Conde, from Bernard Dadie's An African in Paris and to contemporary Franco African writing, we will investigate how the representation of Paris functions in the construction of a black identities. Readings include: Black Girl in Paris (Shay Youngblood), Desirada (Maryse Conde), The Josephine Baker Story. Paris Noir: African Americans in the City of (Tyler Stovall), An African in Paris (Bernard Dadie).

Department: African & African-American Studies
Course: AAS 248
Title: Marriage, Families and Communities in a Global Perspective
Cross-listed: ANT 244/ANT 444
Instructor: Emmett, A. **Class Size:** 25
Description: Please see ANT 244 for the course description.

Department: African & African-American Studies
Course: AAS 252
Title: Economies & Society of Latin America & the Caribbean Since 1492
Cross-listed: HIS 203/ECO 252
Instructor: Inikori, J. **Class Size:** 30
Exams: Midterm, Final
Description: Please see HIS 203 for the course description.

Department: African & African-American Studies
Course: AAS 253
Title: Economic and Social Conditions of African-Americans in the 20th Century
Cross-listed: ECO 253W/HIS 255
Instructor: Engerman, S., Wolkoff, M.
Prerequisites: ECO 207
Description: Please see ECO 253W for the course description.

Department: African & African-American Studies
Course: AAS 254
Title: West African Dance
Cross-listed: DAN 280
Instructor: Martino, K.
Description: Please see DAN 280 for the course description.

Department: African & African-American Studies
Course: AAS 256
Title: History of Race in America
Cross-listed: HIS 258
Instructor: Larry Hudson
Coursework: There will be two required texts available at the bookstore, and several shorter readings available on Reserve.

Description: Grading will be based upon regular attendance 10%; Reaction papers (best two of three) 20%; Class discussion 20%; Final Report 5%
This course will identify salient moments in the nation's history when race functioned as an organizing principle in the construction of American public and private institutions. Course readings and discussions will investigate the influence of race on social structures such as work, religion, health, education, and leisure, at particular historical moments. At each juncture, special attention will be given to the intellectualization and presentation (particularly in the media) of race as a problem in America life and culture. The primary goal of the course, therefore, is twofold:
1) to better understand the history of race, and
2) to proffer some workable solution to the problem(s) of race in America.

Department: African and African American Studies
Course: AAS 257
Title: Lincoln and Douglass and Black Freedom
Cross-listed: HIS 247W
Instructor: Hudson, Larry
Description: In what was probably the world's greatest century, marked by several national and international struggles for human freedom, two men stand head and shoulders above the many great men and women who participated in a civil war for American freedom: Abraham Lincoln and Frederick Douglass. At first glance, these two men had little in common; one born free on the American frontier, the other unfree in the heartland of slavery. Yet they had much in common; both largely self-educated, they both attained a mastery for words and the ability to communicate simply and directly with their fellow man. As if born to fight in one major battle for human freedom, these two men traveled diverse roads to meet on a momentous battlefield: black freedom and the future of America. Utilizing a wide range of sometimes opposing tactics, each in his own way shaped 19th century Americans understanding of what it meant to be free and a citizen.

Department: African & African-American Studies
Course: AAS 274
Title: Guns, War, and Revolution in Southern Africa
Cross-listed: HIS 274/AAS 274W
Instructor: Mandala, E.
Description: Please see HIS 274 for the course description.

Department: African & African-American Studies
Course: AAS 297
Title: Contemporary Issues in African-American Life and Cultures
Instructor: Kemedjio, C., Harris, F. **Class Size:**
Restrictions: Permission of Department required
Description: This course identifies and discusses a selection of texts considered crucial for the understanding of the black Experience from 1610 to the present.

Department: African & African-American Studies
Course: AAS 375W
Title: The Atlantic Slave Trade and Africa, 1650-1850
Cross-listed: HIS 356W/HIS 456/ECO 385
Instructor: Inikori, J. **Class Size:** 15
Coursework: Term Papers
Description: Please see HIS 356W for the course description.

Department: African & African-American Studies
Course: AAS 380
Title: Senior Seminar
Instructor: Kemedjio, C.
Restrictions: Permission of Department required
Description: Students will draw upon their exposure to the theory methods of AAS to produce an interdisciplinary research paper on a topic of their own choosing. Open only to senior majors.

Department: African & African-American Studies
Course: AAS 391
Title: Independent Studies
Description: Designed for Junior and Senior students who wish to pursue an independent reading program with a professor: it may also be used for readings in an advanced research seminar in which the student does not write the required essay and as such does not meet the 300-level seminar requirement, but it may be used as a distribution requirement within its area.

Department: African & African-American Studies
Course: AAS 394
Title: Internship in African and African-American Studies

Description: Experience in an applied setting supervised on site. Approved and overseen by a University Instructor.

Department: African & African-American Studies
Course: AAS 396
Title: Senior Thesis

Anthropology

Department: Anthropology
Course: ANT 101
Title: Cultural Anthropology
Instructor: Reichman, D **Class Size:** 40
Restrictions: Open only to freshmen & sophomores
Coursework: Lectures, discussion, reading, films, two exams
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 102
Title: Introduction to Medical Anthropology
Cross-listed: WST 115
Instructor: Metcalf, Lois **Class Size:** 40
Restrictions: Open only to freshmen & sophomores
Coursework: Lectures, discussions, readings, films
Description: This course will examine selected topics in the study of medical and health care systems from an anthropological and cross cultural perspective. The body of the course will consider several major areas of anthropological work on: ethnomedicine, or "folk medicine" and its interaction with Western medicine, the role of government policies in promoting, or retarding, the health of minority populations, the relationship between patients and healers; transcultural psychiatry; and relations between gender and illness. The course will use studies from a wide range of traditional cultures throughout the world, with frequent reference to the application of this research to modern "Western" medicine.

Department: Anthropology
Course: ANT 110
Title: Introduction to Linguistic Analysis
Cross-listed: LIN 110

Instructor: Paauw, S. **Class Size:** 30
Description: See LIN 110 for course description

Department: Anthropology
Course: ANT 202
Title: Modern Social Theory: Key Texts and Issues
Instructor: Foster, R. **Class Size:** 25
Restrictions: Permission of instructor required for freshmen
Coursework: Four 5 page papers, participation in class discussions
Description: This course principally involves close reading of selected texts by four authors who established the framework of modern social theory: Adam Smith, Karl Marx, Max Weber and Sigmund Freud. Readings will focus on each author's attempt to comprehend modern society and, more specifically, the possibilities and pathologies of capitalism. The course addresses the nature of work and the future of the United States in a global market economy and explores the general social problems of creating community and securing conditions for liberty and justice for all.

Department: Anthropology
Course: ANT 205
Title: Debates and Theories in Anthropology
Instructor: Kim, E. **Class Size:** 25
Prerequisites: None; previous anthropology helpful
Restrictions: Permission of instructor required for freshmen
Coursework: Regular homework assignments and project
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: Anthropology
Course: ANT 214
Title: Love, Friendship and Community
Cross-listed: SOC 221
Instructor: Smith, T. **Class Size:** 20
Description: Please see SOC 221 for the course description.

Department: Anthropology
Course: ANT 218
Title: Birth and Death I: Vital Events in Our Personal Lives
Cross-listed: AAS 221/WST 217/PM 407

Instructor: Carter, A, **Class Size:** 40
Restrictions: Permission of instructor required for freshmen
Coursework: Two midterm exams and a cumulative final exam; optional research paper
Description: How do human beings experience, make sense of, cope with and shape birth and death in their own lives and in the lives of those who are close to them? Historical and contemporary examples from North America, Latin America, Europe, the Middle East, Africa, and Asia.

Department: Anthropology
Course: ANT 224
Title: Anthropology of Development
Instructor: Reichman, D. **Class Size:** 25
Description: What is progress? Are universal theories of development possible? This course introduces students to major trends in the anthropological study of international development through ethnographic case studies from around the world. Topics include: indigenous people and development, the debate over sweatshops, global sustainability, and the role of culture in economic life. Previous experience in anthropology, macroeconomics, or economic history is suggested but not required.

Department: Anthropology
Course: ANT 225
Title: The Social Issues of Media: Anthro Persp on Media in Global & Local Contexts
Cross-listed: AH 230; FMS 225
Instructor: Kim, E. **Class Size:** 20
Description: This course introduces students to the study of media from an anthropological perspective. We will examine constructions of media as objects of social scientific analysis, as both textual artifacts and social practice. Questions that guide the course are, What is "the media"? How have recent transformations in global capital and communications technology altered how we consume, analyze and produce media? What can the study of media tell us about social life and the imagination? We will seek to understand the medias role in producing national and transnational public spheres, focusing on a range of media formations, from multinational corporate structures to indigenous and diasporic productions, to question media's power to shape subjectivities and conceptions of cultural difference. We will examine print journalism, television, film, radio, advertising, and visual art in both local and global contexts. Students will be encouraged to incorporate media analysis and media production in their own ethnographic projects.

Department: Anthropology
Course: ANT 227
Title: Local and Global Market Research
Instructor: McCabe, Maryann **Class Size:** 20
Restrictions: Not open to freshmen
Description: This course focuses on the use of cultural anthropology in marketing and market research. Why has an anthropological approach to understanding consumer behavior become important in the business world? How do marketers and advertisers develop brand images? We will look at the process of constructing brands in terms of cultural symbols and values. Students will learn how to apply anthropological concepts and methods to U.S. and international market research. At the same time, we will look at the social impact of global brands in terms of the political economy of globalizaton. As part of the course, students will conduct ethnographic research on sustainable agriculture. We will partner with the South Wedge Farmers Market, the first organic market in Rochester. Students will present their research findings to the SWFM and the community.

Department: Anthropology
Course: ANT 244
Title: Marriage, Families and Communities in a Global Perspective
Cross-listed: AAS 248/WST 218
Instructor: Emmett, A. **Class Size:** 25
Description: What is the impact of a new global economy on families, love and marriage in the United States and in other countries? Are families still seen as enduring/reassuring 'building blocks' of their respective societies? How does global labor migration of women and men affect families they leave behind? Does women's migration change local understandings of gender roles, families and communities? In this new global context how do people view attachment to 'place'? Are there differences between the so-called "first" and "third world" and between rural and urban settings? Are there new forms of transnational marriage, love, families and communities?

Department: Anthropology
Course: ANT 248
Title: Colonial & Contemporary Africa
Cross-listed: HIS 106/AAS 266
Instructor: Mandala, E. **Class Size:** 30
Exam: Midterm/Final, one 10-15 page paper
Description: For description see HIS 106

Department: Anthropology

Course: ANT 265
Title: Religion and Culture: Fundamentalism
Cross-listed: ANR 260
Instructor: McHugh, E. **Class Size:** 20
Restrictions: Not open to freshmen
Description: This course will examine the social and cultural circumstances that give rise to religious fundamentalism, explore the reasons for its attraction to adherents, and look at its contrasts with other forms of religious practice. Readings will focus on Christianity and Islam. This is a 3 credit course, taught at the Eastman School of Music.

Department: Anthropology
Course: ANT 274
Title: Creative Ethnography
Cross-listed: CLT208G/ENG130
Instructor: Emmett, A. **Class Size:** 20
Restrictions: Not open to freshmen
Description: This course allows students to experiment in different styles of writing cultural stories in one of following ways: fiction, poetry, autobiography, creative nonfiction, screenplay, traditional or creative ethnography. Bringing together creativity, innovation and anthropology, students in this course will choose a cultural experience, event, or issue and seek a way that they believe will best communicate their findings to a larger audience.

American Sign Language

Department: American Sign Language
Course: ASL 101
Title: Beginning American Sign Language I **Class Size:** 18
Exams: frequent quizzes; final
Description: 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: American Sign Language
Course: 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: American Sign Language
Course: ASL 105
Title: Intermediate American Sign Language I **Class Size:** 18
Prerequisites: ASL 102 or ASL Skill Evaluation
Exams: quizzes and final
Description: 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: American Sign Language
Course: ASL 106
Title: Intermediate American Sign Language II **Class Size:** 7
Prerequisites: ASL 105 or ASL Skill Evaluation
Exams: quizzes and videotaped final
Description: This course consists of intensive use of expressive and receptive skills in complex grammatical structures, dialogues, and storytelling.

Department: American Sign Language
Course: ASL 201
Title: Literature in American Sign Language **Class Size:** 10
Prerequisites: ASL 106
Description: Study of selected videotapes and films ranging from the early 1900's to the present. Emphasis will be placed on historical background and meaning of the story content, with discussion of grammatical features and styles revealed in these contexts. This course satisfies the upper level writing requirement.

Department: American Sign Language
Course: ASL 202
Title: Hist&Culture of the American Deaf Community **Class Size:** 18
Prerequisites: ASL 105
Description: Discussion of various aspects of American Deaf Culture, including descriptions of deafness, and the Deaf community.

Department: American Sign Language
Course: ASL 203
Title: Advanced ASL **Class Size:** 18

Prerequisites: ASL 106 or permission of the instructor
Description: 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: American Sign Language
Course: ASL 260
Title: Language and Psycholinguistics
Cross-listed: BCS 152.
Description: For description, see BCS 152.

Department: American Sign Language
Course: ASL 280
Title: Current Trends in Deaf-Related Careers **Class Size:** 18
Prerequisites: ASL 106 with a grade of B or better
Description: Bringing together historical information and career preparation strategies for teaching, service provision and other related fields, this course is designed to provide an understanding of signed language as used in various settings and to explore professional service approaches to the Deaf community. The course also provides an overview of topics ranging from child language development to brain-cognition relationships, from educational interventions to technological advances, and social, psychological and linguistic characteristics of Deaf communities and sign languages.

Art & Art History

Department: Art & Art History
Course: AH 101
Title: Introduction to Art History
Instructor: Seiberling, G. **Class Size:** 30
Description: Fall 2008. This course will address visual culture from the Renaissance to the present. However, unlike a more traditional survey course that tells the story of art in terms of styles and movements, this course will seek out connections and themes within the whole period under consideration. For example, we will consider the role of perspective in the development of Renaissance painting, representations of the body in art and science, the impact of photography on modern art, the question of influence, etc., etc.

Department: Art & Art History
Course: AH 106
Title: Introduction to Archaeology
Cross-listed: HIS 200/REL 200/CLA 200
Instructor: Walsh, D.
Coursework: Students will be required to write three essays, with subjects selected from each of the three course units.
Description: Fall 2008. This course introduces the student to the field of archaeology through three units of study: 1) The history of excavation from ancient to modern times, 2) The techniques of excavation and the analysis of material remains, 3) Modern theories of cultural interpretation of archaeological sites. We will discuss the value of archaeological approaches to the fields of anthropology, history, architectural and art history, religious and classical studies. Much of the instruction will be illustrated by case studies of sites; although the view will be global, there will be a concentration in Old World material from prehistory to the early modern period.

Department: Art & Art History
Course: AH 114
Title: Creating Architecture
Cross-listed: CAS 114
Instructor: Tankel, P. **Class Size:** 10
Coursework: Students will be evaluated on two papers and a final project. Open to all majors and prior architecture study is not required.
Description: Fall 2008. This course will explore the fundamental design principles that are the tools used to create architecture. Through a series of talks, images, field trips and workshops, the students will gain a new awareness of a building, an outdoor space or an entire city. The students will become more sensitive to both the natural and built environment through this increased understanding of architecture.

Department: Art & Art History
Course: AH 128
Title: Modern Art
Instructor: Haidu, R.
Exams: Midterm and final
Coursework: Two short papers
Description: Fall 2008. This course introduces students to art made from the late 19th century to the present day. Broad coverage of a long time span will be supplemented with a consideration of selected key works to familiarize students with points of reference and to introduce concepts. Readings will introduce ideas from contemporary theory. Issues of gender, the effects on art of technology, and the way in which institutions have influenced the

production and reception of modern art will be considered. The course will be taught by a combination of lecture and discussion.

Department: Art & Art History
Course: AH 136
Title: Introduction to the Art of Film
Cross-listed: ENG 117/FMS 132
Instructor: Middleton, J.
Description: Fall 2008. Please see ENG 117 for the course description.

Department: Art & Art History
Course: AH 189
Title: Roman Structures-Engineering in the Classical World
Cross-listed: 4ME 105, 4ME 105A, CLA 213, IIT 159
Instructor: Perucchio, R.
Description: Fall 2008. Please see ME 105 for description.

Department: Art & Art History
Course: AH 209
Title: Writing on Art
Cross-listed: SA 209
Instructor: Haidu, R. **Class Size:** 20
Restrictions: Permission of instructor required
Description: Fall 2008. Please see SA 209 for the course description.

Department: Art & Art History
Course: AH 219
Title: Aesthetics
Cross-listed: PHL 141
Instructor: Meerbote, R.
Description: Fall 2008. Please see PHL 141 for the course description.

Department: Art & Art History
Course: AH 230
Title: The Social Uses of Media: Anthropological Perspectives on Media in Global and Local
Cross-listed: ANT 225, FMS 225
Instructor: Eleana Kim
Description: Please see ANT 225 for the course description.

Department: Art & Art History
Course: AH 231
Title: Terror, Excess and Revolution: Romanticism in European Art
Instructor: P. Duro **Class Size:** 15
Description: Fall 2008. A style, a movement, a period and a label, Romanticism is above all a manifestation of the sensibility of the

late eighteenth and early nineteenth centuries. Its rejection of the universalizing rules of Classicism in favor of an emphasis on the imagination, the expression of emotion, the relationship of the individual to nature, all allied with a profoundly subjective approach to beauty, makes Romanticism a profoundly modern way of seeing. Its privileging of the uniqueness of the individual and the incompatibility of the Romantic aesthetic with any form of social or intellectual constraint led the Romantics to seek an identification with the wilder manifestations of nature and the excesses of political revolution, as in the work of William Blake, J.M.W. Turner, Eugène Delacroix, Caspar David Friedrich, Théodore Géricault, and Francisco de Goya. The Romantic attitude is thus the response of a generation of artists who manifested a distrust of classicizing rules of taste and skepticism that the past could teach anything to the future. With its emphases on the experience of terror, of excess and revolution, Romantic individualism survived the advent of Realism to contribute to the foundation of Modern art.

Department: Art & Art History
Course: AH 244
Title: Piero-Vasari: 15th Century Italian Artists
Cross-listed: IT 244 **Class Size:** 30
Description: Fall 2008. Please see IT 244 for the course description.

Department: Art & Art History
Course: AH 252
Title: Film History: Early Cinema
Cross-listed: ENG 255/455/FMS 233
Instructor: This course will have more than one instructor.
Description: Fall 2008. Please see ENG 255 for the course description.

Department: Art & Art History
Course: AH 253
Title: Film History: 1929-1959
Cross-listed: ENG 256, ENG 456, FMS 234/CLT 218
Instructor: Willis, S.
Description: Fall 2008. See ENG 256 for Description.

Department: Art & Art History
Course: AH 287
Title: Culture on Display
Cross-listed: AH 487
Instructor: Seiberling, G.
Prerequisites: Some Art History or other relevant background.
Exams: A journal, a report, and a term paper with draft.

Coursework: Readings will deal with the history of museums and exhibitions, the ideology of displays, the post-modern critique of museums. Students will use Rochester museums as specific examples.

Description: Fall 2008. Please see AH 287 for the course description.

Department: Art and Art History
Course: AH 308
Title: Art & Imitation--Mimesis and the Origins of Modern Picturing in Art & Culture
Cross-listed: AH 508
Instructor: Duro, P.
Coursework: One term paper and one research paper.
Description: Fall 2008. This course will address the foundational issue of imitation in art, focussing on the origins of modern picturing in seventeenth-century art and theory. It will, however, also examine mimetic practices and theories from Plato through to the present, and consider issues such as the association between painting and literature, the debate between the 'Ancients and the Moderns,' the nature of pictorial representation, the role of the imagination, 'copying' nature/imitating the antique, and naturalism vs. abstraction.

Department: Art & Art History
Course: AH 350
Title: Topics in Contemporary Art and Criticism: Warhol
Cross-listed: AH 550
Instructor: Crimp, D.
Prerequisites: Introduction to VCS, or Introduction to Modern Art
Description: Fall 2008. Andy Warhol Since Warhol's death in 1987 and the Museum of Modern Art retrospective exhibition in 1989, there has been a marked shift in the reception of Warhol. As the most famous artist of the second half of the century, Warhol has been the subject of a growing literature that is not strictly art critical, but that might instead be more properly understood under the rubric of cultural studies. In this course we read such Warhol writings as Popism in addition to looking at his art and films, his early work as a fashion illustrator, and his entrepreneurship at the factory. We also examine various of the new approaches to Warhol and ask how they illuminate not just the art, but the life, the milieu, and the wider social phenomena of Warhol's time. This seminar examines specific practices of art and architecture from the 1960s through the 1990s in relation to theories of postmodernism. We read the essential texts on postmodernism, both those that take art and architecture as their subject and those that understand postmodernism as a wider social and cultural development. But in all cases we look at the theory in relation to works of art and architecture. The course takes up such defining

development s as minimal art, conceptual art, institutional critique, performance art, installation, and deconstructivist architecture, as well as the contributions of feminism and other movements of identity.

Department: Art & Art History
Course: AH 383
Title: Visual and Cultural Studies Colloquium
Cross-listed: AH 583/CLT 462
Instructor: Saab, J.
Description: Fall 2008. The VCS Colloquium will introduce students in the program to aspects of the histories, theories, and methodologies of our field of study. We will proceed in three ways: First, we will read and discuss together a series of texts on and in visual and cultural studies. Second, various faculty members in the program will conduct sessions based on readings that they will select for us. And third, each student will present his or her own work to the colloquium. For this final part, it is important that students engage with visual and cultural studies models and provide relevant readings to other members of the colloquium.

Department: Art & Art History
Course: AH 398
Title: Senior Seminar--Modern Architecture & Urbanism: LA Modern
Cross-listed: AH 598
Instructor: D. Crimp
Description: Fall 2008. The architecture of Los Angeles serves two different purposes in this seminar. On the one hand, we study the whole range of modern architecture--from arts and crafts (Greene and Greene) and mission revival (Gill) and the early modernists (Wright, Schindler) to international-style modernism (Neutra, the Case Study houses) and postmodernism (Gehry) --as a singular regional but nevertheless representative development of modern architecture. On the other hand, using architecture as a starting point, we look at the strange utopia/dystopia of Los Angeles as an example of a new kind of urbanism and style of living. Our texts include not only studies of architecture, but also Hollywood films (Chinatown), detective novels (Raymond Chandler), new journalism (Joan Didion), and urban theory (Reyner Banham, Mike Davis).

Department: Art & Art History
Course: AH 583
Title: Visual and Cultural Studies Colloquium
Cross-listed: AH 383/CLT 462
Instructor: Saab, J.
Restrictions: Permission of instructor required for undergraduates

Description: Fall 2008. Please see AH 383 for the course description.

Art & Art History -- Studio Arts

Department: Art & Art History -- Studio Arts
Course: SA 111
Title: Introductory Drawing
Instructor: Ashenfelder, S. **Class Size:** 10
Restrictions: Not open to seniors
Description: Fall 2008. 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. Not open to seniors. Studio art supplies fee: \$50.

Department: Art & Art History -- Studio Arts
Course: SA 121
Title: Introductory Painting
Instructor: Ashenfelder, S. **Class Size:** 10
Restrictions: Not open to seniors
Description: Fall 2008. 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. Not open to seniors. Studio art supplies fee: \$50.

Department: Art & Art History -- Studio Arts
Course: SA 122
Title: Concepts in Introductory Painting: Extending the Autobiography
Instructor: Layton, H. **Class Size:** 10
Restrictions: Permission of instructor required
Description: Fall 2008. How do you describe yourself? How would you describe your family? What role has religion played in your life? Where do you stand politically? How do you describe your ethnic background? Who has affected your belief systems? Why should we care? Through a series of projects, this course will examine the multifaceted ways in which we define ourselves. The course will combine the technical demonstrations taught in SA121 with discussions and prompts relating to the topic of visual autobiography. Students will have the opportunity to work from life, from photographic references, and from the imagination. This course aims to enhance students knowledge of contemporary painting through presentations, demonstrations, studio practice, and classroom discussion. Our goal is to work toward creating paintings that provoke meaningful discussions. Formal and informal critiques will regularly follow the completion of each project and will serve as a primary source of evaluation. No previous studio art experience is required. Students who have completed SA121 may take this course to expand upon their previous knowledge. Permission of instructor required. Not open to seniors. Studio art supplies fee: \$50.

Department: Art & Art History -- Studio Arts
Course: SA 131
Title: Introductory 3D
Instructor: Topolski, A. **Class Size:** 10
Restrictions: Not open to seniors
Description: Fall 2008. 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 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. Not open to Seniors. Studio art supplies fee: \$50.

Department: Art & Art History -- Studio Arts
Course: SA 141
Title: Introductory Photography
Instructor: Shindelman, M. **Class Size:** 10
Restrictions: Not open to seniors
Description: Fall 2008. The goal of this course is to begin to formulate 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. Not open to seniors. Permission of instructor required. Studio art supplies fee: \$50.

Department: Art & Art History -- Studio Arts
Course: SA 151
Title: Introductory Digital Art
Instructor: Ashenfelter, S. **Class Size:** 10
Prerequisites: Some familiarity with Macintosh computer required
Description: Fall 2008. 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. Not open to seniors. Studio art supplies fee: \$50.

Department: Art & Art History -- Studio Arts
Course: SA 161
Title: Introductory Video & Sound Art
Cross-listed: FMS 161
Instructor: Devereaux, E. **Class Size:** 12
Restrictions: Permission of instructor required
Description: Fall 2008. Please see FMS 161 for the course description. (Not open to seniors.)

Department: Art & Art History - Studio Arts

Course: SA 172
Title: Concepts in Introductory 2D: Printmaking
Instructor: Ashenfelter, S. **Class Size:** 10
Restrictions: Not open to seniors
Description: Fall 2008. Printmaking is a non-digital, non-photographic manner of visual communication which emphasizes reproduction. This course will introduce procedures and techniques for creating multiple works on paper. Suites of prints will be made from linoleum cuts, woodcuts, drypoint etchings, monotypes and mono-prints. Drawing is key in the development of the reductive, visual language required in printmaking. Exercises which focus on print-based drawing skills will be assigned throughout. Not open to Seniors. Studio arts supplies fee: \$50.

Department: Art & Art History - Studio Arts
Course: SA 192
Title: Concepts in Introductory Visual Production--Techniques in Animation
Cross-listed: FMS 192
Instructor: Devereaux, E. **Class Size:** 10
Restrictions: Permission of instructor required
Description: Fall 2008. This introductory course explores a variety of materials and approaches to time-based concepts and techniques. Time-based work is explored at its point of intersection between ephemeral art form and the tools and materials shaping the production. Class topics reference the development of media technologies as a foundation for realizing works combining forms of installation, drawing, sound, painting, and sculptural elements. Readings and screenings provide examples of both historical and contemporary approaches using light and shadow projections, lighting sketches, flipbooks, claymation, stop-motion, model-building, as well as digital and interactive techniques. While drawing, sculpture and time-based production courses are a good introduction to this course, they are not required. Not Open to seniors. Permission of instructor required. Studio art 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
Restrictions: Permission of instructor required
Description: Fall 2008. 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 one-half 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 222A
Title: Advanced Painting
Cross-listed: SA 222B/SA 222C
Instructor: Layton, H. **Class Size:** 10
Restrictions: Permission of instructor required
Description: Fall 2008. This course provides a continuation of Introductory Painting with an intense emphasis on independent proposals, research, and studio production. Regular group discussions, individual meetings, and peer critiques will serve to enhance the experience. Various readings and short films will provide a foundation in theoretical frameworks and a platform for understanding the history and future of painting. An exploration of the broadest examination of painting and related media is to be expected. With faculty and peer support, students will develop professional-quality artist statements and will write reviews of each others work. Within the context of the class, students will discuss the logistics of acquiring, promoting, and installing a professional exhibition, including multiple strategies for display. Students should expect to leave this class with the artistic maturity required to respond to and challenge a wide range of contemporary painting topics. This course may be taken more than once. Permission of instructor required. Studio art supplies fee: \$50.

Department: Art & Art History -- Studio Arts
Course: SA 222B
Title: Advanced Painting
Cross-listed: SA 222A/SA 222C
Instructor: Layton, H. **Class Size:** 10
Restrictions: Permission of instructor required
Description: Fall 2008. Please see SA 222A for the course description.

Department: Art & Art History -- Studio Arts
Course: SA 222C
Title: Advanced Painting
Cross-listed: SA 222A/SA 222B
Instructor: Layton, H. **Class Size:** 10
Restrictions: Permission of instructor required
Description: Fall 2008. Please see SA 222A for the course description.

Department: Art & Art History - Studio Arts
Course: SA 232A
Title: Advanced 3D Object Install
Cross-listed: SA, 232B, SA 232C
Instructor: Cohen, E. **Class Size:** 10
Restrictions: Permission of instructor required
Description: Fall 2008. This class broadens the investigation undertaken in introductory 3D classes to include other materials and processes as well as focus on working in an interdisciplinary fashion. Projects open up the practice of sculpture to include an expanded notion of space and form to further the development of the student's three- dimensional vocabulary and further their options for articulating ideas. The scheduled class days will consist of studio production, slide presentations, technical demonstrations, discussion of assigned readings, one on one meetings, project critiques. Permission of instructor required. Studio arts supplies fee: \$50.

Department: Art & Art History - Studio Arts
Course: SA 232B
Title: Advanced 3-D Object Install
Cross-listed: SA 232A, SA 232C
Instructor: Cohen, E. **Class Size:** 10
Restrictions: Permission of instructor required
Description: Fall 2008. Please see SA 232A for the course description.

Department: Art & Art History - Studio Arts
Course: SA 232C
Title: Advanced 3-D Object Install
Cross-listed: SA 232A, SA 2323B
Instructor: Cohen, E. **Class Size:** 10
Restrictions: Permission of instructor required
Description: Fall 2008. Please see SA 232A for the course description.

Department: Art & Art History - Studio Arts
Course: SA 242A
Title: Advanced Photography
Cross-listed: SA 242B/242C
Instructor: Shindelman, M. **Class Size:** 10
Restrictions: Permission of instructor required
Description: Fall 2008. Advanced Photography will examine and expand upon the issues and practice of contemporary photography. Large format photography, studio lighting, fine silver Printing and toning will be covered within a conceptual framework. Students entering this course are expected to have an understanding of contemporary art, artistic writing and be willing

to advance their studio practice. Students will be encouraged to combine their work with written research. Permission of instructor only. Studio art supplies fee: \$50.

Department: Art & Art History - Studio Arts
Course: SA 242B
Title: Advanced Photography
Cross-listed: SA 242A/242C
Instructor: Shindelman, M. **Class Size:** 10
Restrictions: Permission of instructor required
Description: Please see SA 242A for the course description.

Department: Art & Art History - Studio Arts
Course: SA 242C
Title: Advanced Photography
Cross-listed: SA 242A/242B
Instructor: Shindelman, M. **Class Size:** 10
Restrictions: Permission of instructor required
Description: Please see SA 242A for the course description.

Department: Art & Art History -- Studio Arts
Course: SA 245A
Title: Issues in Advanced Photography/Digital Artists Books
Cross-listed: SA 245B/245C
Instructor: Ashenfelder, S. **Class Size:** 10
Prerequisites: Two of the following: SA 141, SA 151, SA 152, SA 171
Restrictions: Permission of instructor required
Description: Fall 2008. This course will explore advanced digital printing, organizing, editioning, layout, color theory and issues surrounding image and text through the form of the artists' book. We will begin with an overview of digital imaging skills, move into layout programs and work extensively with inkjet printing. Various book forms will be demonstrated and explored in conjunction with readings on the theories and history of artists' books. Students are expected to bring into the course a high level of conceptual thinking and are expected to do self-guided research outside class. Permission of instructor required. Studio art supplies fee: \$50.

Department: Art & Art History -- Studio Arts
Course: SA 245B
Title: Issues in Advanced Photography/Digital Artists Books
Cross-listed: SA 245A/245C **Class Size:** 10
Restrictions: Permission of instructor required
Description: Please see SA 245A for the course description.

Department: Art & Art History -- Studio Arts

Course: SA 245C
Title: Issues in Advanced Photography/Digital Artists Books
Cross-listed: SA 245A/245B **Class Size:** 10
Restrictions: Permission of instructor required
Description: Please see SA 245A for the course description.

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 396
Title: Senior Studio and Seminar - Fall
Instructor: Cohen, E. **Class Size:** 10
Restrictions: Open only to Junior and Senior majors of the offering department
Description: Fall 2008. This course is designed to support the transition between undergraduate coursework in the arts and independent, professional, and post-graduate pursuits. The course has three essential components: (1) Studio Production and Critique, (2) the Mechanics of the Profession, and (3) Contemporary Artists and Issues as they relate to Visual and Cultural Theory, Art History, and Art Criticism. The production component will consist of the intensive critique of ongoing studio work with an emphasis on the importance of shifting toward self-motivated production. One-on-one, small group, large group, and visiting critiques are not only to be expected, but appreciated. Discussion on the Mechanics of the Profession will include detailed and individually-tailored guidance on career choices, graduate school preparation, and group and solo exhibition. Contemporary Issues and Artists will be thoughtfully considered through readings, discussions, and written responses. By the end of the semester, students will have prepared an artist talk on their work through documentation, explanation, reference, and relevance in the context of contemporary art. This course will serve as the first half of the development toward a solo thesis exhibition at the end of the spring semester. This class is limited to and required of senior studio majors. Studio art supplies fee: \$50.

Biology

Department: Biology
Course: BIO 104
Title: Ecosystem Conservation and Human Society
Instructor: Robert Minckley

Prerequisites: None
Coursework: 2 tests, 1 group project, 1 independent project
Description: As the natural resources on which human society depends are depleted, the need for sound conservation policies increases. The course examines a new approach in conservation biology that identifies and places economic value on the services that natural ecosystems provide. Such services are basic to sustainable societies and include clean water and air, waste decomposition, pollination and farm land productivity. Major themes the course covers include an overview of other approaches in conservation biology, a review of the services that ecosystems provide, ways the value of these services are determined, and how this novel approach is influencing economic and political policy at local, national, and international levels.

Department: Biology
Course: BIO 110
Title: Principles of Biology I
Instructor: Olek, A. **Class Size:** 150
Prerequisites: Completion or concurrent enrollment in CHM 131 or equivalent
Exams: Three 90 minute exams and one 3 hour final exam
Coursework: Three 50 min lectures and one 2 hour problem based workshop per week
Description: The first semester in a year long course sequence designed for majors and minors in biology. Major topics include: biochemistry, molecular and cellular evolution, cell reproduction, fundamentals of genetics and molecular biology.

Department: Biology
Course: BIO 112
Title: Perspectives in Biology I
Instructor: Platt, T. **Class Size:** 100
Prerequisites: See Description below
Restrictions: Open to freshmen only
Exams: Two exams during the term and a final examination
Description: The first semester of a two-course introductory sequence for students with a strong background in science. Topics include biochemistry, molecular and cellular evolution, cell reproduction, fundamentals of genetics and molecular biology. This course differs from BIO 110: there will be greater emphasis on the chemistry underlying biological processes and on experimental approaches, data analysis, and quantitative methods. It will also include reading original papers, and a significant writing component (e.g. preparation of a book review from among selected titles, such as The Selfish Gene). Note both BIO 110 and 112 are designed to prepare students who intend to major in biology. Prerequisites: Students with a score of 4 or 5 on the AP

Biology test, particularly those who have an interest in research. Completion or concurrent enrollment in CHM 131 or equivalent.

Department: Biology
Course: BIO 198
Title: Principles of Genetics
Instructor: Sia, E. (Fall only); S. Linn Sadjak (Summer only) **Class Size:** 250
Prerequisites: BIO 110 and completion or concurrent enrollment in CHM 203 or 205
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: Methods of genetic analysis are stressed. Topics include: Mendelian assortment; gene interaction; linkage and mapping; methods of genetic analysis in yeast, bacteria and phage; DNA replication, recombination, repair and mutation; gene expression and its regulation; transposons and retroviruses; recombinant DNA technologies; cancer as a genetic disease.

Department: Biology
Course: BIO 198L
Title: Principles of Genetics Lab
Instructor: Ramsey, T **Class Size:** 150
Prerequisites: Concurrent with BIO 198 or after completion of BIO 198.
Exams: Quizzes, laboratory reports and other assignments
Coursework: One 3.5 hour laboratory per week
Description: This course is an introduction to basic genetic theory and laboratory practices. Topics include classical inheritance in eukaryotes, bacterial genetics and molecular technology techniques. Emphasis is on data analysis and experimental design.

Department: Biology
Course: BIO 202
Title: Molecular Biology
Cross-listed: BIO 402
Instructor: Benyajati, Cheeptip
Prerequisites: BIO 198, and BIO 250 strongly recommended; should have completed biology core as well as chemistry requirements
Exams: Three midterm exams and a comprehensive final exam
Coursework: Two 75 minute lectures and one 75 minute recitation per week.
Description: This course deals with the molecular mechanisms of gene replication, gene expression, and the control of gene expression in both prokaryotic and eukaryotic cells. Topics include: enzymatic mechanisms of DNA replication, recombination and repair; transposable elements; DNA transcription; RNA splicing;

RNA translation; repressors, activators and attenuators; recombinant DNA and genetic engineering.

Department: Biology
Course: BIO 203
Title: Mammalian Anatomy
Instructor: Dietsche, A **Class Size:** 120
Prerequisites: BIO 110 or BIO 112 and BIO 111 or BIO 113 or permission of instructor
Exams: Four 50 min exams
Coursework: Three 50 min lectures and one three-hour laboratory per week.
Description: This course deals with the structural and systematic anatomy of animals with special emphasis on human beings. Laboratory includes the dissection of fresh and preserved tissue plus analysis of structures and systems.

Department: Biology
Course: BIO 205
Title: Evolution
Instructor: Orr, A. **Class Size:** 100
Prerequisites: BIO 111 or BIO 113 and BIO 198
Exams: Two 70 min exams plus a comprehensive final exam.
Coursework: Two 75 min lectures and one 50 min recitation per week.
Description: Fundamentals of Evolution. Topics include natural selection and its ecological basis, population genetics including selection and drift, speciation, and molecular evolution including the neutral theory, molecular phylogeny and the molecular clock.

Department: Biology
Course: BIO 210
Title: Molecular Cell Biology
Instructor: David Goldfarb **Class Size:** 200
Prerequisites: BIO110 or BIO 112 and BIO 111 or BIO 113. BIO 198 and BIO 250 are strongly suggested.
Restrictions: Not open to freshmen and sophomores
Description: An intermediate level course that covers fundamental cell processes at the molecular level. Topics include organelle structure and functions, membrane biogenesis, cytoskeleton, cell signaling, cell cycle growth and death.

Department: Biology
Course: BIO 222
Title: Biology of Aging
Cross-listed: BIO 422
Instructor: Gorbunova, V. **Class Size:** 50
Prerequisites: Genetics or Molecular biology recommended
Exams: Two exams: midterm and end of semester.

Coursework: Two 75-min lectures and one 50 min recitation per week
Description: This course focuses on molecular mechanisms of aging. We will discuss popular theories of aging, model organisms used in aging research, evolution of aging, relation between aging and cancer, human progeroid syndromes, and interventions to slow aging.

Department: Biology
Course: BIO 226
Title: Developmental Biology
Cross-listed: BIO 426
Instructor: Lambert, D. **Class Size:** 80
Prerequisites: BIO 198 or permission of the instructor
Exams: Three 75-min exams and a comprehensive final exam
Coursework: Two 75-min lectures per week and a 50 min recitation per week.
Description: This course deals with the cellular and molecular aspects of animal development, with emphasis on processes and underlying mechanisms. Topics include embryonic cleavage, gastrulation, early development of model vertebrates and invertebrates, patterning of cell fates along embryonic axes of Drosophila and vertebrates, organogenesis and stem cells.

Department: Biology
Course: BIO 228
Title: Laboratory in Cell and Developmental Biology
Cross-listed: BIO 428
Instructor: Benyajati, C. and Bi, X. **Class Size:** 24
Prerequisites: Strongly recommended BIO 250; should have completed biology core as well as chemistry requirements
Exams: Laboratory reports and other assignments
Coursework: Two four-hour labs and one 50 min recitation per week
Description: This course is designed to provide (i) training in specific methods used in molecular, cell and developmental biology research, with emphasis on data acquisition and analysis (ii) experience in the design and execution of experiments, writing scientific reports, and public scientific presentation.

Department: Biology
Course: BIO 260
Title: Animal Behavior
Cross-listed: BIO 460
Instructor: Werren, J, **Class Size:** 75
Prerequisites: BIO 111 or BIO 113
Exams: ???
Coursework: Three 50 min lectures and one 50 min recitation per week
Description: Examines animal behavior from an ecological and evolutionary perspective. Topics include social organization, mating systems,

foraging, aggression, and animal learning. Students also learn quantitative techniques in behavioral biology.

Department: Biology
Course: BIO 263
Title: Ecology
Instructor: Ramsey, J
Prerequisites: BIO 111 or BIO 113 and MTH 142 or MTH 161
Exams: Three 50 min exams and a comprehensive final exam
Coursework: Three 50 min lectures and one 50 min recitation per week
Description: A survey of adaptations to the physical environment, dynamics of natural populations, interactions between species, and human impact on the environment.

Department: Biology
Course: BIO 473
Title: Advanced Ecology and Evolutionary Biology C
Instructor: Justin Ramsey
Prerequisites: Graduate Course. Open to undergraduates only with permission of instructor.
Restrictions: See course description for specific prerequisites required
Description: One of a four-course sequence that provides comprehensive coverage of advanced topics in ecology and evolutionary biology. Areas covered include: population and community ecology; population and quantitative genetics; molecular evolution; evolutionary genomics; evo-devo; phylogenetics; and speciation. This course is intended for graduate students; exceptional undergraduate students can enroll by permission of the course coordinator.

Brain & Cognitive Sciences

Department: Brain & Cognitive Sciences
Course: BCS 110
Title: Neural Foundations of Behavior
Cross-listed: PSY/CVS 110
Instructor: Pouget, A. **Class Size:** 200
Prerequisites: None
Exams: Three mid-terms and a final, all multiple choice.
Coursework: Lectures, weekly recitations (optional).
Description: Introduces the structure and organization of the brain, and its role in perception, movement, thinking, and other behavior. Topics include the brain as a special kind of computer, localization of function, effects of brain damage and disorders, differences between human and animal brains, sex differences, perception and control of movement, sleep, regulation of body states and emotions, and development and aging.

Department: Brain & Cognitive Sciences
Course: BCS 111
Title: Foundations of Cognitive Science **Class Size:** 50
Prerequisites: None. NOTE: PSY MAJORS, SEE BCS/PSY 112.
Description: 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 artificial intelligence and cognitive neuroscience.

Department: Brain & Cognitive Sciences
Course: BCS 151
Title: Perception and Action
Cross-listed: PSY/CVS 151
Instructor: Williams, D. **Class Size:** 60
Prerequisites: BCS/PSY 110 or BCS 111 or BCS/PSY 112
Exams: Two mid-term exams and a cumulative final.
Description: Explores how the biology of our senses shapes perceptual experiences of reality. Emphasizes sense of sight primarily and hearing secondarily. An important theme is that our sensory systems play a crucial role in the execution of coordinated movements of our bodies, as we navigate in, and interact with, the environment.

Department: Brain & Cognitive Sciences
Course: BCS 152
Title: Language and Psycholinguistics
Cross-listed: PSY 152, ASL 260, LIN 217
Instructor: Jaeger, F. **Class Size:** 50
Prerequisites: BCS 110 or 111 or 112; or LIN 110
Description: Overviews the nature and processing of human languages, including comparisons between language and animal communication systems, the biological bases of human language, and the cognitive mechanisms used in producing, understanding, and learning language.

Department: Brain & Cognitive Sciences
Course: BCS 183
Title: Animal Minds
Cross-listed: PSY 183
Instructor: Holtzman, D.
Prerequisites: None
Description: Considers the cognitive and communicative abilities of animals, especially primates, as compared with humans. Topics include thinking, reasoning, remembering, communicating, and

understanding number, time, and causality, in animals ranging from ants to apes.

Department: Brain & Cognitive Sciences
Course: BCS 200
Title: Statistical Analysis and Experimental Design
Cross-listed: PSY 200
Instructor: Knill, D. **Class Size:** 60
Exams: Quizzes. Computer problem sets. Take-home assignments and a final exam.
Coursework: There are two lectures and a computer lab per week. Students should sign up for one lab section as well as for the lecture.
Description: Introduces statistical methods including descriptive statistics (count, central tendency, dispersion), hypothesis testing (significance, t-test, chi-square, etc.) and elements of correlation, regression, and interaction. Emphasis is on what a technique does at a conceptual level, how a technique is reported in the literature, and how to execute a technique.

Department: Brain & Cognitive Sciences
Course: BCS 205W
Title: Lab in Development & Learning
Cross-listed: PSY 205W
Instructor: Aslin, R. **Class Size:** 15
Prerequisites: BCS 200 and one of the BCS core courses (151, 152, 153) or BCS 172
Coursework: This course carries upper-level writing credit. Papers are written and graded both for content and form.
Description: Introduces behavioral methods used to study the development of perception, cognition, and language, and computational and neuroscientific methods used to study mechanisms of development, learning, and experiential change. Emphasizes methods for testing human infants and children. Includes observation of these experimental methods as well as opportunities for individual projects.

Department: Brain & Cognitive Sciences
Course: BCS 240
Title: Basic Neurobiology
Cross-listed: NSC 201
Instructor: Nordeen, E. , **Class Size:** 70
Prerequisites: BIO 110 or BIO 112 AND BIO 111 or BIO 113 AND BIO 111L
Exams: 4-5 mid-term exams, cumulative final; 2 papers
Coursework: The associated laboratory (BCS240L) is for students intending to take the spring Lab in Neurobiology (BCS203).
Description: Please see NSC 201 for the course description.

Department: Brain & Cognitive Sciences
Course: BCS 243
Title: Neurochemical Foundations of Behavior
Cross-listed: NSC 243
Instructor: Kellogg, C. **Class Size:** 20
Prerequisites: NSC 201 (BCS 240) or equivalent background; biochemistry recommended
Exams: 3 exams, a take-home final
Coursework: Lectures and problem sets, with emphasis on problem solving and data analysis. 1 paper
Description: Please see NSC 243 for the course description.

Department: Brain & Cognitive Sciences
Course: BCS 246
Title: The Biology of Mental Disorders
Cross-listed: NSC/PSY 246
Instructor: Kellogg, C., Como, P. **Class Size:** 40
Prerequisites: BCS 110 and BIO 110 (or equivalent), or NSC 201.
Exams: 5 exams, a combination of take-home and in-class
Description: Examines the neurobiology of anxiety/phobic conditions, mood disorders, and chronic psychotic states, particularly schizophrenia. Considers definitions of psychiatric syndromes, the problems of diagnosis, brain organization, and neurotransmitter systems involved in state functions. Introduces research approaches including epidemiologic, phenomenologic, family/adoption, longitudinal descriptive, psychophysiologic, neuropharmacologic, genetic linkage, and postmortem studies; emphasizes recent in vivo brain imaging and neuroreceptor studies.

Department: Brain & Cognitive Sciences
Course: BCS 310
Title: Senior Seminar
Instructor: Holtzman, D. **Class Size:** 15
Prerequisites: Declared BCS concentrators, senior status.
Restrictions: Open only to senior majors or by permission of instructor
Exams: No exams. Papers and presentations.
Coursework: Seminar format.
Description: A 2-credit-hour course required of all senior BCS majors who do not enter the honors program. Emphasizes reading, evaluating, and discussing primary research papers. Each student chooses a topic, becomes familiar with it, selects a classic paper, leads a class discussion, and writes an evaluation of the paper as though providing peer review for a journal.

Department: Brain & Cognitive Sciences
Course: BCS 389

Title:	Vision Science Research & Colloquium
Cross-listed:	CVS 389
Instructor:	Williams, D. Class Size: 10
Restrictions:	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 131
Title:	Chemical Concepts, Systems and Practices I
Instructor:	Krauss, T., Krugh, T. Class Size: 250
Exams:	Three Exams and a Final
Description:	This course is an introduction to the concepts of chemistry for science and engineering students, health professions students, and as a science course for students of the humanities and social sciences. Properties of chemical systems are discussed from a macroscopic and molecular perspective with examples developed from a wide range of disciplines. The Topics covered include stoichiometry, atoms and molecules, properties of gases, thermochemistry, chemical equilibrium, acids and bases, solubility equilibria, and oxidation-reduction reactions. M W F - Krauss: Three 50 minute lectures per week. T R - Krugh: Two 75 minute lectures per week. In addition, there is a three-hour laboratory in alternate weeks, a 50 minute laboratory lecture and a 75 minute workshop (Krauss) or a 75 minute recitation (Krugh). Laboratories are held Monday to Thursday, 1400-1700 and 1730-2030, and Friday, 1400-1700. Recitations and workshops are offered at multiple times during the week. During the first week of classes you will be assigned a laboratory section and recitation/workshop section that fits into your schedule.

Department:	Chemistry
Course:	CHM 171Q
Title:	Quest Organic Chemistry
Instructor:	Goodman, J. Class Size: 30

Description:	CHM171Q / 172Q 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). Coregistration in CHM 173Q (laboratory and lab/lecture) is required.
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Department:	Chemistry
Course:	CHM 173Q
Title:	Quest Organic Chemistry Laboratory
Instructor:	Goodman, J. Class Size: 30
Prerequisites:	CHM 171Q
Exams:	Four-credit course that meet for three lectures & one 2-hour workshop each week
Description:	CHM 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 with 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.

Department:	Chemistry
Course:	CHM 203
Title:	Organic Chemistry I
Instructor:	Dinnocenzo, J. Class Size: 350
Prerequisites:	CHM 131/CHM 151 & CHM 132/CHM 152 or the equivalent.
Exams:	Four 1-hour Exams and Final.
Description:	An introduction to organic chemistry that focuses on chemical bonding, structure and stereochemistry, reactions and reaction mechanisms of organic compounds. There are three 50 minute lectures and one workshop per week. The workshop is an informal, interactive two-hour session in which groups of eight students work on specially designed problems under the guidance of a trained leader. The purpose of the workshop is to provide a mechanism for students to work actively with the material and with each other. Coregistration in CHM 207 is required.

Department: Chemistry
Course: CHM 207
Title: Organic Chemistry I Laboratory
Instructor: Toder, B. **Class Size:** 350
Prerequisites: Co-registration in CHM 203.
Exams: Several lab quizzes during lecture.
Coursework: One 3-hour laboratory & one 50 minute laboratory lecture per week.
Description: A one laboratory period per week course that provides an introduction to the characterization and reactivity of organic molecules. This course provides an introduction to modern laboratory techniques used for organic molecules. There is one 3-hour laboratory and one 50 minute laboratory lecture per week.

Department: Chemistry
Course: CHM 211
Title: Inorganic Chemistry
Instructor: Eisenberg, R. **Class Size:** 45
Prerequisites: Organic Chemistry
Description: This course covers descriptive chemistry of main group elements, bonding in inorganic systems, coordination chemistry and the properties and reactions of transition metal complexes. Two 75 minute lectures per week. Three 90 minute examinations plus group projects and problem sets.

Department: Chemistry
Course: CHM 231
Title: Chemical Instrumentation
Instructor: Kreilick, R. **Class Size:** 36
Prerequisites: See Description below.
Restrictions: Not open to freshmen and sophomores
Exams: One 1-hour exam and a final exam, laboratory work, 10 written lab reports.
Description: This course will provide an understanding of both the method and the application of modern chemical instrumentation to chemical problems and systems. The problems will be deliberately chosen to cover a range of different chemical systems. One lecture and 2 labs week. Prereq: One each year of Freshman and Organic Chemistry. One year each of college physics and mathematics. Concurrent registration in CHM 251 is recommended. This class is 4 credit hours.

Department: Chemistry
Course: CHM 251
Title: Physical Chemistry I
Instructor: Farrar, J. **Class Size:** 60

Prerequisites: PHY 121-123; MTH 163
Restrictions: PHY 121-122; MTH 161-163
 Permission of instructor required except for students matriculated in offering school
Exams: Three 1-hour exams and Final.
Description: This course is an introduction to quantum mechanics with applications to spectroscopy and to atomic and molecular structure. There are weekly problem sets. Students also participate in workshops each week.

Department: Chemistry
Course: CHM 352
Title: Issues in Workshop Leadership
Cross-listed: CAS 352
Instructor: Dinnocenzo, J., Perez, C., Goodman, J., Perez, C., , Goodman, J.
Description: 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: Chemistry
Course: CHM 411
Title: Advanced Inorganic Chemistry I
Instructor: Eisenberg, R. **Class Size:** 30
Restrictions: Open only to graduate students in offering department
Description: Please see CHM 211 for the course description.

Department: Chemistry
Course: CHM 417
Title: X-ray Crystallography
Instructor: Brennessel, W. **Class Size:** 20
Coursework: Weekly assignments: problem sets, simple lab work, or computer work.
Description: 2 Credit hours. Students will learn the basic principles of X-ray diffraction, symmetry, and space groups. Students will also experience the single crystal diffraction experiment, which includes crystal mounting, data collection, structure solution and refinement, and the reporting of crystallographic data. Fall, 2nd half of semester

Department: Chemistry
Course: CHM 421
Title: Basic Organometallic Chemistry **Class Size:** 30

Description: Examination of the concepts, systems, reactions and applications of organometallic chemistry. Structure and bonding of complexes having carbonyl, alkyl, carbene, olefin, CnHn and related pi ligands. Oxidative addition, insertion, elimination reactions, and other fundamental reactions of organometallic compounds. (Fall, first half-semester)

Department: Chemistry
Course: CHM 423
Title: Organometallic Chemistry-Survey
Instructor: Jones, W. **Class Size:** 30
Prerequisites: CHM 421
Description: Mechanisms in organometallic reactions. Applications of organometallic compounds in homogeneous catalysis, polymerization, metathesis. (Fall, second half-semester)

Department: Chemistry
Course: CHM 433
Title: Advanced Physical Organic Chemistry I
Instructor: Ng, Man Kit **Class Size:** 20
Restrictions: Not open to freshmen and sophomores
Exams: Two exams (midterm and final).
Description: An understanding of the structure and reactivity of organic compounds by using molecular orbital theory will be provided. Some perspectives on the relationships between structure, mechanism and reactivity will be discussed in the context of a number of fundamental concepts and principles, such as molecular orbital theory, frontier molecular orbital theory, stereochemistry, conformational analysis, stereoelectronic effects, thermodynamics and equilibria, kinetics, linear free-energy relationships, acids and bases catalysis, nonclassical ions, and concerted pericyclic reactions.

Department: Chemistry
Course: CHM 435
Title: Organic Reactions
Instructor: Vargas, R. **Class Size:** 20
Prerequisites: One year of college Organic Chemistry.
Coursework: Two 75-minute lectures per week with extensive reading assignments from original literature.
Description: A survey of reactions of organic compounds with emphasis on those with practical synthetic utility will be provided. Mechanisms of reactions will be considered as well as their scope and limitations. Stereochemical and stereoelectronic issues will be discussed. Selected topics to be covered are conformational analysis, olefin addition reactions, oxidation and reduction methods, pericyclic reactions, chemistry of enolates and

metalloenamines, organosilicon chemistry, chemistry of nitrogen- and sulfur-based functional groups, chemistry of reactive intermediates, such as carbocations and carbenes. A solid background of college organic chemistry, including a good knowledge of reaction mechanisms, will be assumed as a prerequisite.

Department: Chemistry
Course: CHM 437
Title: Bioorganic Chemistry & Chemical Biology
Instructor: Nilsson, B. **Class Size:** 20
Prerequisites: Completion of sophomore organic chemistry; 1 semester undergraduate biochemistry or biology recommended.
Restrictions: Not open to freshmen and sophomores
Exams: Two 1-hour exams and a paper.
Description: An introduction to bioorganic chemistry and chemical biology. The course draws heavily from the primary literature to present a survey of how the principles of organic chemistry have been used to explain and exploit biological phenomena. Course topics include the use of organic chemistry to understand oligonucleotides, proteins, and oligosaccharides; design of organic molecules for recognition and catalysis in biological systems; chemical genetics; introduction to principles of drug design.

Department: Chemistry
Course: CHM 455
Title: Thermodynamics and Statistical Mechanics
Instructor: Ovchinnikov, M. **Class Size:** 15
Prerequisites: CHM 251 or equivalent
Exams: Midterm/Final
Coursework: Lectures: 2 weekly lectures of 75 minutes Assignments: Reading assignments and homework
Description: Synopsis: The course draws connections between the orderly and chaotic behavior of simple and complex systems, laying the foundations of statistical equilibrium and equilibrium thermodynamics. The different phases of matter (gases, liquids, solid) assumed by bulk classical interacting particles and their transitions are discussed in this approximation. Properties of non-interacting quantal systems are expressed in terms of partition functions, for gases of simple and complex particles. Non-equilibrium statistical behavior of multi-particle systems leads to diffusion and other transport phenomena.

Department: Chemistry
Course: CHM 470
Title: Computational Chemistry

Instructor: Stern, H.
Prerequisites: Quantum and statistical mechanics at the level of advanced undergraduate P-chem.
Exams: Take-home midterm and final exam
Coursework: Weekly 2-3 computer labs and problem sets.
Description: In this course students will learn about a range of computational methods used to attack research problems in chemistry. Emphasis will be placed both on the theory underlying computational techniques and on their practical application. Topics will include molecular mechanics, ab initio electronic structure theory, density functional theory, molecular dynamics and Monte Carlo simulations, methods for free-energy calculations, path-integral techniques, and methods for protein structure prediction.

Clinical & Social Sciences in Psychology

Department: Clinical & Social Sciences in Psychology
Course: CSP 171
Title: Social and Emotional Development **Class Size:** Open
Cross-listed: PSY 171, CSP/PSY 171W
Description: The course will examine the interpersonal, emotional, cognitive, and environmental factors which influence children's social and emotional development from early infancy through late adolescence.

Department: Clinical & Social Sciences in Psychology
Course: CSP 181
Title: Theories of Personality & Psychotherapy
Cross-listed: PSY 181, CSP/PSY 181W
Instructor: Niemiec, C. **Class Size:** Open
Description: A survey of personality, emphasizing modern theoretical approaches, basic methods of investigation, and the relations of these theories to psychotherapy and behavioral change.

Department: Clinical & Social Sciences in Psychology
Course: CSP 211
Title: Introduction to Statistical Methods in Psychology
Cross-listed: PSY 211 **Class Size:** 60
Description: Introduction to the use of statistics in psychological research. Topics include descriptive statistics, correlation and regression, and inferential statistics. Examples are drawn from social and personality psychology. Logic of statistical inference and proper interpretation of research findings are emphasized. NOTE: Total CAP CSP/PSY 211: 60

Department: Clinical & Social Sciences in Psychology

Course: CSP 219W
Title: Research Methods in Psychology
Cross-listed: PSY 219W **Class Size:** 25
Prerequisites: CSP/PSY 211
Exams: Final
Coursework: Lab reports
Description: Hands-on introduction to the process of conducting research in personality and social psychology. Topics include measurement techniques, correlational methods and experimental design, data analysis, and ethical issues. Laboratory reports emphasize proper interpretation and presentation of research findings. Fulfills upper level writing requirement.

Department: Clinical & Social Sciences in Psychology
Course: CSP 263
Title: Relationship Process and Emotions
Cross-listed: PSY 263
Instructor: Reis, H.
Description: Relationships are among the most important endeavors of human activity. In the past two decades, extensive theory and research has been devoted to understanding the processes of regulating people's thoughts, feelings, and behavior in meaningful relationships with friends, family, and romantic partners. The purpose of this seminar will be to explore this literature. We will examine psychological research on such important topics as attachment, emotion, intimacy, conflict resolution, relationship differences and similarities, and impact of relationships on physical health and emotional well-being.

Department: Clinical & Social Sciences in Psychology
Course: CSP 264
Title: Industrial & Organizational Psychology **Class Size:** 150
Cross-listed: PSY 264
Exams: Three
Description: Applications of psychological theory and research to work settings. Topics include personnel selection, training and appraisal; organizational structure and transformation; performance in work groups; motivation and satisfaction; leadership; work conditions; and cross-cultural issues.

Department: Clinical & Social Sciences in Psychology
Course: CSP 267
Title: Psychology of Gender
Cross-listed: PSY 267/CSP 267W & PSY 267W
Description: Exploration of the ways males and females differ in interaction, theories of development of sex differences, consequences for social change.

Department: Clinical & Social Sciences in Psychology
Course: CSP 276
Title: Psychology of Parenting
Instructor: McDowell, D.
Prerequisites: CSP/PSY 171 Social & Emotional Development
Description: Parenting and family life are emphasized from developmental, ecological, and cross-cultural perspectives. Care giving in diverse family forms and cultures are studied in relation to adult-child interactions, parent/school/community relations, family roles, laws, and parenting skills. Issues related to aspects of diversity in contemporary families are included.

Department: Clinical & Social Sciences in Psychology
Course: CSP 281
Title: Psychology and the Law
Cross-listed: PSY 281
Prerequisites: PSY 101 recommended
Instructor: Burnette, M.
Prerequisites: CSP/PSY 171 Social & Emotional Development
Description: This course provides an introduction and overview to the intersection between psychology and the legal system. Topics will include: forensic assessment, expert testimony, children and adolescents and the legal system, and the application of psychological science to legal issues.

Department: Clinical & Social Sciences in Psychology
Course: CSP 289
Title: Developmental Child Psychopathology
Cross-listed: PSY 289
Instructor: Davies P. **Class Size:** open
Description: This course covers high-risk conditions and psychopathological disorders of infancy through adolescence. The course emphasizes the contributions that the normal developmental perspective can make to understanding psychopathology and risk. Likewise, the course addresses the significant contributions that the study of psychopathology can make to advancing the understanding of normal development.

Department: Clinical & Social Sciences in Psychology
Course: CSP 301
Title: Teaching Psychology
Cross-listed: PSY 301
Instructor: McAdam, D.
Prerequisites: Junior/Senior Majors in Psychology
Restrictions: Permission of instructor required

Description: In-depth consideration of topics in psychology and their communication. PSY 101 is a lab for this course.

Department: Clinical & Social Sciences in Psychology
Course: CSP 310W
Title: Honors Research I
Cross-listed: PSY 310W
Instructor: Klorman, R.
Restrictions: Permission of instructor required
Coursework: Written research proposal
Description: First part of Honors research requirement. The student develops and conducts research to be completed in Honors Research II, under the guidance of a chosen faculty advisor. The proposal is evaluated by the faculty advisor. Upper Level Writing credit.

Department: Clinical & Social Sciences in Psychology
Course: CSP 351
Title: Research in Developmental Neuropsychology
Cross-listed: PSY 351
Instructor: Bennetto, L.
Restrictions: Permission of instructor required
Description: This course provides guided, direct research experiences in developmental neuropsychology, with a particular focus on autism and other developmental disabilities.

Department: Clinical & Social Sciences in Psychology
Course: CSP 353
Title: Research in Children's Social Development
Cross-listed: PSY 353
Instructor: Mc Dowell, D.
Restrictions: Permission of instructor required
Description: Provides guided, direct, research experiences in investigating children's social and emotional development. Students contribute to ongoing research in children's social development. Discussions and class assignments related to methodology and developmental theory are core components of the class.

Department: Clinical & Social Sciences in Psychology
Course: CSP 368W
Title: Seminar in Humanistic Psychology
Cross-listed: PSY 368W
Instructor: Deci, E.
Restrictions: Permission of instructor required
Description: This course will be an introduction to the theory and methods of humanistic psychology, with particular emphasis on humanistic approaches to psychotherapy and growth. The approach is learning through experience. In class, we will employ the

methods of humanistic psychology, including demonstrations and experimentation. Assignments will include regular reading and writing. Writing will require the applications of theory to one's own life experiences. This is an upper-level writing course for all participants.

Department: Clinical & Social Sciences in Psychology
Course: CSP 373
Title: Exploring Research in Social Psychology I
Cross-listed: PSY 373
Instructor: Elliot, A.
Restrictions: Permission of instructor required
Description: First-hand team experience with ongoing research in social psychology areas.

Department: Clinical & Social Sciences in Psychology
Course: CSP 377
Title: Exploring Research in Family Psychology I
Cross-listed: PSY 377
Instructor: Davies, P.
Restrictions: Permission of instructor required
Description: Provides guided, direct, research experiences in investigating the interplay between family relationships and children's social and emotional development. Emphasis is placed on gaining knowledge in translating theories (e.g., family systems theory) into empirically testable hypotheses and designing research methods and techniques to test predictions.

Department: Clinical & Social Sciences in Psychology
Course: CSP 383
Title: Moral Development
Cross-listed: PSY 383
Instructor: Smetana, J. **Class Size:** Open
Prerequisites: CSP/PSY 271 Social & Emotional Development
Description: This seminar focuses on the psychological study of moral development. Different theoretical approaches to morality and related empirical research will be discussed. The primary focus is from a developmental psychology perspective, but philosophical and educational issues also will be considered.

Department: Clinical & Social Sciences in Psychology
Course: CSP 384
Title: Practicum in Developmental Disabilities
Cross-listed: PSY 384
Instructor: Bennetto, L.
Restrictions: Permission of instructor required

Description: Explores educational, therapeutic, and social challenges in developmental disabilities. Students will spend approximately 8 hours per week in a supervised educational or treatment setting as well as participate in weekly meetings to review and discuss general issues in the field.

Computer Science

Department: Computer Science
Course: CSC 108
Title: Introduction to Computers
Instructor: Horn, C.
Prerequisites: Not open to officially declared CSC Majors.
Description: A practical introduction to computing for students in the humanities, social sciences, and business. Topics to be covered include stand-alone applications (word processing, spreadsheets, 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: Computer Science
Course: CSC 170
Title: Introductory Computer Programming
Instructor: Arnold, K. **Class Size:** 75
Prerequisites: none. Not open to officially declared CSC majors.
Description: 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 171
Title: Computer Programming
Instructor: Pawlicki, T. **Class Size:** 75
Description: Discovering, formulating, and exploiting the structure of problems to aid in their solution by computer. An introduction to algorithmic problem solving and computer programming in JAVA. This is the first course in the pre-major sequence,

intended for students with prior programming experience. No formal pre-requisites. Lab required.

Department: Computer Science
Course: CSC 173
Title: Computation & Formal Systems
Instructor: Brown, C. **Class Size:** 50
Prerequisites: CSC 172
Description: We investigate several formal systems influential in computer science, and also some of their applications (e.g. inspiring and providing the foundation for a computer programming style, or providing the basis for solving important practical problems like communications protocols, compiling, systems analysis, graphics ...) In more detail, we study: propositional and predicate Logic; applications of logic: prolog and circuit design; formal languages and automata theory (FLAT); applications of FLAT: scanners and parsers. The C Language; lambda calculus and scheme; matrices: matlab, robotics, graphics.

Department: Computer Science
Course: CSC 190
Title: Issues in Computing: Recreational Graphics I
Instructor: Pawlicki, T.
Prerequisites: General prerequisite: none; CSC 170 Recommended for Recreational Graphics
Description: Special topics of current interest that vary by semester. See current semester description. This course is not taught on a regular basis. Fall 2008 - Recreational Graphics I (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. The course has no pre-requisites and does not require programming experience.

Department: Computer Science
Course: CSC 244
Title: Logical Foundations of Artificial Intelligence
Cross-listed: CSC 444
Instructor: Kautz, H. **Class Size:** 30
Prerequisites: CSC 173 & CSC 242
Description: An introduction to the logical foundations of AI including first-order logic, knowledge representation, deductive, nondeductive and probabilistic reasoning, and planning by intelligent agents.

Meets jointly with CSC 444, a graduate-level course that requires additional readings and assignments, including a significant project or essay.

Department: Computer Science
Course: CSC 247
Title: Natural Language Processing
Cross-listed: CSC 447, BCS 235/BCS 535, LIN 247/447
Instructor: Schubert, L **Class Size:** 10
Prerequisites: CSC 242
Description: Introduction to natural language processing: constructing computer programs that understand natural language. Includes parsing, semantic analysis, and knowledge representation. Meets jointly with CSC 447, a graduate-level course that requires additional readings and assignments. Offered odd-numbered years, alternating with CSC 248/448.

Department: Computer Science
Course: CSC 254
Title: Programming Language Design & Implementation
Instructor: Scott, M. **Class Size:** 30
Prerequisites: CSC 173; CSC 252 recommended
Coursework: Course projects include assignments in several languages and the modification and enhancement of a working compiler.
Description: Design and implementation of programming languages, with an emphasis on imperative languages and on implementation tradeoffs. In-depth examination of "how programming languages work." Topics include fundamental language concepts (names, values, types, abstraction, control flow); compilation and interpretation (syntactic and semantic analysis, code generation and optimization); major language paradigms (imperative, object-oriented, functional, logic-based, concurrent). Course projects include assignments in several different languages, with an emphasis on compilation issues.

Department: Computer Science
Course: CSC 256
Title: Operating Systems
Cross-listed: CSC 456
Instructor: Dwarkadas, S.
Prerequisites: CSC 252
Coursework: Course projects include the modification and enhancement of a small operating system.
Description: Principles of operating system design, explored within the practical context of traditional, embedded, distributed, and real-time operating systems. Topics include device management, process management, scheduling, synchronization principles,

memory management and virtual memory, file management and remote files, protection and security, fault tolerance, networks, and distributed computing. Students taking this course at the 400 level will be required to complete additional readings and/or assignments.

Department: Computer Science
Course: CSC 257
Title: Computer Networks **Class Size:** 30
Prerequisites: CSC 252
Description: Architecture and Protocols: Introduction to computer networks and computer communication: Architecture and Protocols. Design of protocols for error recovery, reliable delivery, routing and congestion control. Store-and-forward networks, satellite networks, local area networks and locally distributed systems. Case studies of networks, protocols and protocol families. Emphasis on software design issues in computer communication.

Department: Computer Science
Course: CSC 282
Title: Design & Analysis of Efficient Algorithms
Instructor: Stefankovic, D. **Class Size:** 30
Prerequisites: CSC 172 & MTH 150.
Description: How does one design programs and ascertain their efficiency? Divide-and-conquer techniques, string processing, graph algorithms, mathematical algorithms. Advanced data structures such as balanced tree schemes. Introduction to NP-completeness and intractable combinatorial search, optimization, and decision problems.

Department: Computer Science
Course: CSC 286
Title: Computational Complexity
Cross-listed: CSC 486
Instructor: Hemaspaandra, L **Class Size:** 10
Prerequisites: CSC 280; CSC 282 is co-requisite
Description: This course studies the difference between computable and uncomputable problems, and also, especially, studies the difference between feasible and infeasible problems. Regarding the latter pair, what properties of a problem make it computationally simple? What properties of a problem may preclude its having efficient algorithms? How computationally hard are problems? Complete sets and low information content; $P=NP?$; unambiguous computation, one-way functions, and cryptography; reductions relating the complexity of problems; complexity classes and hierarchies.

Department: Computer Science
Course: CSC 287
Title: Advanced Modes in Computation
Cross-listed: CSC 487
Instructor: Seiferas, J **Class Size:** 10
Prerequisites: CSC 286
Description: Advanced modes of computation such as probabilistic computation, counting-based computation, semi-feasible computation, nondeterminism, computation trees, and parallel access. Meets jointly with CSC 487, a graduate-level course that requires additional readings and assignments. May not be offered every year.

Department: Computer Science
Course: CSC 290
Title: Topics in Computer Science: Collaborative Software Development and Collective Kn
Instructor: Fall 2008 290A Ding 290B Neustaedter, 290C Koomen
Prerequisites: Varies with topic. Fall 2008 290A CSC173, CSC 254 recommended; CSC 290B CSC 171 or permission of instructor.
Description: (CSC 290A) Running on low-cost, powerful computers, immense storage, and ubiquitous networks, a new generation of software has radically changed how information is distributed and accessed and is opening new possibilities in how (fast) knowledge is created and used. This revolution has been compared to the advent of printing, and the pertinent expertise and skill are considered as basic and essential as reading and writing. This experimental course teaches principles and practices of collaborative software development and its use in converting data into knowledge and knowledge into tools. The topics include fundamentals of programming (more for organizing information than for managing computers), lessons from past information systems, and current practice and tools for teamwork and (virtual) collaboration. The main assignments are a series of group projects including the final project of developing a possibly on-line recommendation system. The projects will be evaluated based on the design, implementation, and deployment, including an end-of-semester competition based on a user survey. (CSC290B) Human Computer Interaction: The course will involve the examination of the design, implementation, and evaluation of human-computer interfaces. Class lectures will involve studying theoretical methods for interface design and evaluation including requirements gathering, usability heuristics, user interface inspections, usability studies, information visualization, and prototyping. These will be augmented with case studies of interface successes and failures. Students will

apply the theoretical knowledge to assignments which involve portions of the design, implementation, and evaluation cycle (290C) Intro to Robotics: This course is an introduction to the basics of modeling, design, planning and control of robotics systems. It includes survey coverage of relevant results from geometry, kinematics, statics, dynamics and control theory. Lectures, readings, labs and weekly problems sets. Prerequisites: CSC 172 or equivalent experience required, CSC 242 recommended.

Dance

Department: Dance
Course: DAN 101
Title: World Dance: Movement as Culture
Instructor: Holland, A. **Class Size:** 20
Restrictions: Permission of instructor required
Description: This 4 credit lecture-based course is an exploration of world cultures through dance. Students will study the historical and anthropological significance of dance, as well as experience the movement qualities of different world cultures. This course will examine dance as the link between humanity's basic instinct to communicate and express world perspectives through movement. Specific attention to the cultures of South-East Asia, Africa, Europe and North & South America will be explored through dance existing within the social events of a given community as well as within the cultural history of that community.

Department: Dance
Course: DAN 102
Title: Fundamentals of Movement **Class Size:** 20
Description: 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.

Department: Dance
Course: DAN 103
Title: Fundamentals of Movement II **Class Size:** 10
Description: A continuation of Dance 102.

Department: Dance
Course: DAN 113
Title: Sacred Dance and Yoga

Instructor: McCausland, J. **Class Size:** 18
Description: Many of us experience dance as a form of socializing or a form of artistic expression. Sacred Dance takes yet another perspective. Sacred Dance is a way of communicating with our innermost self as well as a way of celebrating the feminine principle, the rhythms of nature, of the seasons, of our lives. Sacred Dance is both ancient and current. In this class we will explore the many expressions of sacred dance and meditative movement chosen from dances danced the world over. Included in the warm-up will be hatha yoga with its similar emphasis on union of body, mind and heart. Also included in the class will be time for centering exercises, contemplation and discussion.

Department: Dance
Course: DAN 114
Title: Introduction to Yoga
Instructor: McCausland, J. **Class Size:** 20
Restrictions: Not open to seniors
Description: This hatha yoga course offers each student an opportunity to open and strengthen the body, steady the mind and refresh the spirit. Students are taught universal principles of alignment and balanced action with an attitude of self-respect, acceptance and fun. Fundamentals of movement are woven among classical postures thereby providing a harmony of stillness with motion. Course requirements include home practice of asanas (poses), readings on hatha yoga and yogic philosophy, journaling, midterm exam, group presentation and attendance at specific dance events.

Department: Dance
Course: DAN 116
Title: Contemporary Ballet **Class Size:** 20
Description: Contemporary Ballet will approach ballet technique through the lens of Bartenieff Fundamentals and 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.

Department: Dance
Course: DAN 120
Title: Introduction to Aikido
Instructor: Martini, R. **Class Size:** 18
Restrictions: Not open to Seniors
Description: 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.

Department: Dance
Course: DAN 180
Title: Creative Middle Eastern Dance
Cross-listed: WST 177
Instructor: Scott, Katrina **Class Size:** 20
Description: 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: Dance
Course: DAN 202
Title: Contact Improvisation
Instructor: Pigno, N. **Class Size:** 12
Description: Contact improvisation is rooted in dance, the martial arts and studies of body development and awareness. It is a duet form where partners use weight, momentum, and inertia to move each other freely through space, finding support through skeletal structure rather than muscular effort. We will explore solo and duet skills such as rolling, falling, balance, counter-balance, jumping, weight sharing, spirals, and attuning to sensory input. Skill work will be combined with more open dancing in a supportive and focused environment. No previous dance training required.

Department: Dance
Course: DAN 203
Title: Contact Improvisation II
Instructor: Pigno, N. **Class Size:** 10
Description: 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: Dance
Course: DAN 204
Title: Contact Improvisation and Culture
Instructor: Pigno, N. **Class Size:** 10
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.

Department: Dance
Course: DAN 208
Title: T'ai Chi and Chinese Thought
Instructor: Loughridge, R. **Class Size:** 18
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 movement aspects of Tai Chi in order to better understand the integration of human body, mind, and spirit. Additionally, this course examines the areas of internal energy, time, space, body awareness, breathing, the mechanics and psychology of martial arts, and the relationship with Qi Gong. The Simplified 24-Step Taijiquan (Ershisi Shi Taijiquan) is learned, along with the foundation skills of the Eight Methods or Energies (Ba Fa), Reeling Silk (Chan Si Gong), Pushing Hands (Tui Shou), and Standing Pole meditation (Zhan Zhuang).

Department: Dance
Course: DAN 209
Title: Qigong: Chinese Way To Health
Instructor: Loughridge, R. **Class Size:** 18
Description: Qi Gong is a traditional Chinese internal art and an early forerunner of Tai Chi Chuan consisting of the practice (Gong) of cultivating energy (Qi.) These simple, easy to learn, but powerful techniques are used for increasing vitality, achieving and maintaining optimal health, improved fitness, overall harmony, and inner peace. This course is a study of both the philosophical and the movement aspects of Qi Gong in order to better understand and to attain the goal of integration of body, mind, and spirit for health and longevity. Topics will include traditional Chinese cultural concepts such as Qi theory, Yin-Yang theory, Five Element theory, and Human Integration in Nature. Traditional Qi Gong forms will be studied which incorporate movement, relaxation, posture, balance, meditation, concentration, and breathing techniques.

Department: Dance
Course: DAN 214
Title: Community, Earth & Body
Cross-listed: WST 215
Instructor: Hook, J. **Class Size:** 12
Description: 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

Department: Dance
Course: DAN 265
Title: Contemporary Dance Technique **Class Size:** 15
Prerequisites: DAN 102 or equivalent dance experience
Description: This class is for students with previous dance or athletic experience. This aerobic, highly musical class will work with the exploration of weight change and balance, momentum and flow while exploring music from Bach to Blues. Dynamic phrases using patterning, jumping and propelling through space will leave the students feeling energized.

Department: Dance
Course: DAN 270
Title: Capoeira: Brazilian Art Movement
Instructor: Russell, T. **Class Size:** 20
Description: 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: Dance
Course: DAN 275
Title: Dance Composition **Class Size:** 20
Description: In this course we will experiment with various methods of dance-making and focus on examining craft in the service of choreographic expression. You will be encouraged to open your mind to a better understanding of different points of view and to explore structures to see how they affect quality and content.

Drawing from dance, visual art, theater, music, writings and other sources, we will explore the unique problems posed by creating both individual and group compositions. Various in-class workshops and showings, followed by group discussions, will facilitate the process of generating movement material, investigating its possibilities, supporting the choreographer in clarifying their intentions and gaining confidence within a safe, while challenging environment.

Department: Dance
Course: DAN 280
Title: West African Dance
Cross-listed: AAS 254
Instructor: Martino, K. **Class Size:** 20
Description: The objective of the course is to give students an experience in West African dance. We will both dance and research the historical development of performing and cultural arts in post-colonial Ghana and Guinea. These cultural practices stem from a rich history pertaining to environment, identity, and cross-cultural perspectives. Aesthetic qualities of African Dance will be explored through video, readings, and performance. This course will culminate in a final departmental showing that will be choreographed during class.

Department: Dance
Course: DAN 340B
Title: Topics in Dance: Capoeira II: Music and Motion
Instructor: Russell, T. **Class Size:** 20
Prerequisites: DAN 270 or previous Capoeira experience (Instructor permission)
Description: This is a deeper study of Capoeira. This second level will find students continuing to build strength, coordination, rhythm, and balance. Students will also become further involved with the instrumentation of Capoeira. Readings and discussions will explore into historical events and look at Capoeira and its Afro-Brazilian spirituality, liberation and cultural revolution throughout the ages. Each class involves daily physical and music training.

Department: Dance
Course: DAN 340C
Title: Topics in Dance: Cross-Patterning & Bodywork
Instructor: Holland, J., Holland, A. **Class Size:** 18
Description: This class explores a wide range of parallels to be found among ancient movement and healing practices from the Orient and Africa. Specifically, the Chinese martial arts of Kung Fu and T'ai Chi, Indian yogic practice, west african dance movements and

bodywork techniques from a variety of sources will be explored. Each class will provide an integrated exercise session consisting of: warm up stretches, martial arts and afro-aerobic dance sequences, a cool down section focusing on bodywork techniques and a brief meditation. Students can thus expect the class to present a holistic exercise experience that emphasizes root symmetries that underlie many ancient and contemporary physical arts.

Department: Dance
Course: DAN 342
Title: Creative Improvisation Through World Percussion
Instructor: Holland, J. **Class Size:** 18
Description: Explores improvisation as a process and vehicle for personal expression while investigating some of the rhythms and musics of the world through hands-on performance, guided listening, games and video presentations. The course will include an introduction to drumming techniques with an emphasis on West African and Afro-Cuban percussion traditions. Following the spirit of these traditions, which celebrate community over individualism, practical facility with drumming language will be emphasized as a key to improvisation.

Earth and Environmental Sciences

Department: Earth and Environmental Sciences
Course: EES 101
Title: Introduction to Geological Sciences
Instructor: Garziona, C.
Exams: two 1 hour exams, one final exam
Coursework: Required 4 hour field trip to localities near Rochester
Description: This introductory geology class provides a broad overview of the Earth Sciences, from planetary evolution to the interplay of geology and climate. This course is a prerequisite for all undergraduate majors who are considering careers in the Earth and Environmental Sciences, while also satisfying science requirements for other undergraduate majors. We will introduce the class with the unifying framework for Earth Science: plate tectonics. Throughout the semester we will look at the physical interactions between different realms on Earth, including the interior (core and mantle), the outer shell (termed lithosphere), oceans, and the atmosphere. We will explore the dynamic processes operating on Earth and how these processes have been recorded and have varied over the geologic history. During the last third of the semester, we will discuss geologic problems that have a particular relevance to humans, such as energy and mineral resources, water resources, climate and global change.

Students are required to enroll in a lab section and are required to attend one field trip.

Department: Earth & Environmental Sciences
Course: EES 104Q
Title: Environmental Quest in the Field and Laboratory
Instructor: Cox, L.
Prerequisites: None
Restrictions: Permission of instructor required
Description: In this quest, small groups of students (about 4 per group: maximum of 12) will conduct an environmental investigation of an actual field site in the Rochester area. Through a series of experiments involving field mapping, sampling, laboratory analysis, and data interpretation, students will attempt to achieve an understanding of a specific environmental problem. The coordination of the laboratory experiments allows students to build on skills learned in previous sessions and to recognize the linkages among a variety of investigative approaches. The semester will culminate with the presentation of the results in a departmental forum.

Department: Earth & Environmental Sciences
Course: EES 204
Title: Mineralogy
Instructor: Basu, A. **Class Size:** 25
Prerequisites: GEO 101 or permission of the instructor
Restrictions: Permission of instructor required for freshmen
Exams: Two 1-hour and one 2-hour exams in class. One mid-term and final in the lab.
Description: Two lectures and one laboratory per week. Lectures discuss the physical and chemical principles governing the properties and formation of minerals. There are three major divisions of the subject matter: (a) geometric and optical crystallography (b) crystal chemistry and physical properties of minerals; and (c) occurrence, origin and pressure-temperature stabilities of the major rock-forming minerals. Labs are devoted to exercises in crystallography (2), x-ray diffraction (1), optical mineralogy (4), and hand-specimen mineral identification (5).

Department: Earth & Environmental Sciences
Course: EES 204W
Title: Mineralogy-Upper Level Writing Requirement
Instructor: A. Basu
Prerequisites: See EES 204
Description: See EES 204 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.

Department: Earth and Environmental Sciences
Course: EES 205
Title: Geophysics
Instructor: Ebinger, C.
Prerequisites: MTH 143, PHY 114 or equivalent, and EES 101
Description: Introduction to geophysical methods and their application to Earth structure from surface to core. Topics will include seismology and Earth structure; gravitational field; geochronology and age of Earth; heat generation and heat flow; heat production, radioactivity and mantle convection; magnetic field; paleomagnetism; bending and deformation of continental and oceanic plates; geophysical methods applied to archeology and environmental studies.

Department: Earth & Environmental Sciences
Course: EES 208
Title: Structural Geology
Instructor: Mitra, G. **Class Size:** 25
Prerequisites: EES 101, EES 201 or permission.
Exams: Three class exams, lab final exam, optional final exam in lecture parts
Coursework: Weekly laboratory lectures and assignments. Also a one-day (weekend) field trip during the semester.
Description: Recognition and interpretation of geologic structures. Topics include geometric analysis of faults, folds, joints, and rock fabrics; an introduction to stress analysis, theories of brittle failure, finite strain analysis, ductile deformation, application to geotectonics. Laboratory work concerned with structural analysis.

Department: Earth & Environmental Sciences
Course: EES 218
Title: The Chemistry of Global Change
Cross-listed: EES 418
Instructor: Poreda, R.
Prerequisites: Required: CHM 131 and 132 or 151 and 152 or equivalent; MTH 162 or equivalent. Recommended: EES 101 and 103; MTH 163.
Coursework: Weekly reading and writing assignments and semi-weekly problem sets; midterm; final exam or term paper.
Description: A quantitative survey of the processes controlling environmental conditions at the Earth's surface today, how they have changed with time, and how they are expected to change in the future. The course emphasizes the chemical composition of the atmosphere and oceans, and the chemical, biological and geological processes which affect this composition. Specific topics include: Greenhouse gases and global warming; photochemistry and stratospheric ozone; geochemical cycles and

feedbacks; the effects of human activities; and the methods used to study the chemical evolution of the atmosphere and oceans through time.

Department: Earth & Environmental Sciences
Course: EES 218W
Title: The Chemistry of Global Change-Upper Level Writing Requirement
Instructor: Poreda, R.
Prerequisites: See EES 218
Description: See EES 218 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.

Department: Earth and Environmental Sciences
Course: EES 255
Title: Planetary Science: Geologic Evolution and Planetary Habitability
Instructor: Tarduno, J.
Prerequisites: no formal prerequisites-EES 101 or EES 201 strongly recommended
Description: EES 255 will focus on geologic and geophysical studies of planets (interiors and surfaces), and the conditions that led to the origin of life. We will start with initial conditions, defined here as the formation of Earth and the Moon-forming event, and trace development of the planet from cooling of the magma ocean onwards. We next consider how our planetary neighbors (Venus and Mars) evolved, as well as key satellites in the solar system that may harbor life, or provide insight into early conditions on Earth.

Department: Earth & Environmental Sciences
Course: EES 299
Title: Field Geology
Instructor: Tarduno, J.
Prerequisites: permission of instructor
Description: This course covers the essential geologic and geophysical approaches to field stratigraphy, mapping and structural interpretation. The coursework is based on observations made during a substantial field excursion (usually 6 weeks long). Additional credit may be earned by laboratory analyses of samples collected during the field excursion.

Department: Earth & Environmental Sciences
Course: EES 299W
Title: Field Geology-Upper Level Writing Requirement
Instructor: Tarduno, J.
Prerequisites: See EES 299

Description: See EES 299 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.

Department: Earth and Environmental Sciences
Course: EES 352
Title: Issues in Environmental Science Group Leadership
Cross-listed: CAS 352
Instructor: Roth, V. ,Garziona, C.
Description: Designed for Workshop leaders. This course offers training in group dynamics, learning theory and science pedagogy. The larger goals for this course are to develop leadership skills, to foster ongoing communication among faculty members and Workshop leaders, and to provide an environment for focused review of Workshop modules. This section of CAS/EES 352 will train undergraduate Workshop leaders for Introduction to Geological Sciences (EES 101)

Department: Earth & Environmental Sciences
Course: EES 360
Title: Environmental Geology in the Field and Lab
Instructor: Cox, L. **Class Size:** 15
Prerequisites: CHM 103/104, MTH 161, EES 217.
Restrictions: Permission of instructor required
Description: This course will provide instruction in laboratory techniques used in the analysis of natural waters. The laboratory techniques will be applied to the study of local environmental problems and will include instruction in atomic absorption spectrophotometry, ion and gas chromatography as well as standard "wet" chemical techniques.

Department: Earth & Environmental Sciences
Course: EES 390
Title: Supervised College Teaching
Cross-listed: EES 490
Instructor: Any Full-time Faculty Member within Department
Restrictions: Permission of instructor required
Description: 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.

Department: Earth & Environmental Sciences
Course: EES 391
Title: Independent Study in Earth and Environmental Sciences

Instructor:
Restrictions: Permission of instructor required
Description: Students must have permission. Interested students should meet with their advisor, and/or Udo Fehn regarding course content.

Department: Earth & Environmental Sciences
Course: EES 391w
Title: Independent Study in Earth and Environmental Sciences-Upper Level Writing Requir
Prerequisites: See EES 391
Restrictions: Permission of instructor required
Description: See EES 391 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.

Department: Earth & Environmental Sciences
Course: EES 393
Title: Senior Thesis
Restrictions: Permission of instructor required
Description: 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: Earth & Environmental Sciences
Course: EES 393W
Title: Senior Thesis-Upper Level Writing Requirement
Prerequisites: See EES 393
Restrictions: Permission of instructor required
Description: See EES 393 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.

Department: Earth & Environmental Sciences
Course: EES 394
Title: Internship in Earth and Environmental Sciences
Restrictions: Permission of instructor required
Description: Students should contact their major advisor for details. Closure course for Environmental Studies majors (ESP) and Environmental Science majors (EVS).

Department: Earth and Environmental Sciences
Course: EES 418
Title: The Chemistry of Global Change
Cross-listed: EES 218
Instructor: Poreda, R.
Prerequisites: Required: CHM 131 and 132 or 151 and 152 or equivalent; MTH 162 or equivalent. Recommended: EES 101 and 103; MTH 163.
Restrictions: Permission of instructor required for undergraduates

Description:	Please see EES 218 for the course description.
Department:	Earth and Environmental Sciences
Course:	EES 445
Title:	Solid Earth Geochemistry
Instructor:	Basu, A.
Restrictions:	Permission of instructor required for undergraduates
Description:	Composition, structure and evolution of the Earth over the past 4.5 billion years; isotopic geochemistry of crust- mantle processes; phase transitions within the Earth and their tectonic significance.
Department:	Earth and Environmental Sciences
Course:	EES 484
Title:	Stress and Strain in Rocks
Instructor:	Mitra, G.
Description:	Stress states in two and three dimensions Stress Mohr circles. Equilibrium equations. Analysis of finite strains and deformation histories in mountain chains. Strain Mohr circles. Compatability equations.

Economics

Department:	Economics
Course:	ECO 108
Title:	Principles of Economics
Instructor:	Landsburg, S.
Description:	<p>Class Size: 300</p> <p>This course gives an overview of economics and provides a foundation for studying further in economics. We model how individuals make economic choices, e.g., what to buy, how much to work, how much to save, what occupation to pursue, how many children to have, etc. 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,</p>

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 207
Title:	Intermediate Microeconomics
Instructor:	Hawkins, W., Bils, M.
Prerequisites:	ECO 108 highly recommended
Description:	<p>Class Size: 100</p> <p>This course develops the basic tools of microeconomics: supply and demand, indifference curves and budget lines of the consumer, and firm cost curves.</p>
Department:	Economics
Course:	ECO 209
Title:	Intermediate Macroeconomics
Instructor:	Hawkins, W.
Prerequisites:	ECO 207
Exams:	2 Midterms, 1 Final
Description:	<p>Class Size: 125</p> <p>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.</p>
Department:	Economics
Course:	ECO 209H
Title:	Honors Intermediate Macroeconomics
Instructor:	Abraham, A.
Prerequisites:	Calculus, ECO 207
Exams:	1 midterm, 1 final
Description:	<p>Class Size: 25</p> <p>Economic growth and business cycles are studied using formal models. Significant attention is also paid to economic data and the macroeconomic policy debate. In comparison to ECO 209, ECO 209H has more emphasis on analytical rigor.</p>
Department:	Economics
Course:	ECO 223
Title:	Labor Economics
Cross-listed:	ECO 223W
Prerequisites:	ECO 207 and Calculus required
Exams:	2 Midterms, 1 Final
Description:	<p>Class Size: 30</p> <p>This course applies economic theory to understand the way in which real wages, employment, and working conditions are jointly determined by the forces of market demand and supply.</p>

After a brief introductory preview, attention is directed to the demand for labor services. The formal analysis is organized around ten topics. Selected readings which will be assigned will be put on reserve.

Department: Economics
Course: ECO 224
Title: Economics of Sports and Entertainment
Cross-listed: ECO 224W
Instructor: Engerman, S. **Class Size:** 100
Prerequisites: ECO 108
Description: The markets for professional and amateur sports and entertainment are analyzed. Impacts of market organization and public policy on attendance, salaries, and profits are examined.

Department: Economics
Course: ECO 230
Title: Economic Statistics **Class Size:** 100
Prerequisites: Students should have taken or currently be taking Math 141 or higher.
Exams: midterms, final
Description: This course is an introduction to the probability and statistical 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.

Department: Economics
Course: ECO 231W
Title: Econometrics
Instructor: Kinsler, J. **Class Size:** 70
Prerequisites: ECO 207;ECO 230 or STT 213 or MTH 203
Description: This course covers the single and multiple linear regression model, the associated distribution theory, and testing procedures; specification errors; multicollinearity; corrections for heteroscedasticity and serial correlation; simultaneous equations; measurement error, dummy variables, discrete choice models; 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 are emphasized.

Department: Economics
Course: ECO 252
Title: Economies & Societies of Latin America
Cross-listed: AAS 252/HIS 203
Instructor: Inikori, J. **Class Size:** 30

Description: Please see HIS 203 for the course description..

Department: Economics
Course: ECO 253
Title: Economic and Social Conditions of African-Americans in the 20th Century
Cross-listed: HIS 255, AAS 253
Instructor: Engerman, S.,Wolkoff, M. **Class Size:** 40
Prerequisites: ECO 108
Description: Study of selected topics concerning the conditions of African-Americans in the United States during the 20th century. Topics include education, incomes, housing, family patterns, etc.

Department: Economics
Course: ECO 269
Title: International Economics
Cross-listed: ECO 269W
Instructor: Jones, R. **Class Size:** 50
Prerequisites: ECO 207
Description: Topics: (1) Determinants of trade patterns, and consequences of trade on income distribution, (2) Tariffs and commercial policy in competitive and non-competitive markets, (3) Growth and direct investment, (4) International mobility of labor and capital.

Department: Economics
Course: ECO 288
Title: Introduction to Game Theory
Cross-listed: PSC 288
Instructor: Kalandrakis, A.
Prerequisites: ECO 207
Description: Please see PSC 288 for the course description.

English

Department: English
Course: ENG 101
Title: Maximum English
Instructor: Eaves, M **Class Size:** 40
Description: Fall 2008. "English" is a little word for lots of things. Is it literature you want today, or creative writing? film? theater? journalism? debate? Maximum English introduces you to all these areas and to our unique resources for studying and enjoying them--the full range of "English" here at UR. So you'll learn the fundamentals of reading and viewing from the department's own creative writers, its literary and film critics and historians, and its theater directors. You'll enlarge the experience of reading literature and criticism by listening to writers read their own

original work and then discussing it with them. You'll experience plays not only as written scripts but as living theatrical events by attending performances and talking to actors, directors, and designers about what they do to bring a play to the stage. You'll encounter works in different media, from the live human voice to printed books, from the stage to film and electronic hypermedia. Maximum English will launch you into real English--the new expanded version. Applicable English Clusters: Modern and Contemporary Literature; Novels; Plays, Playwrights, and Theater; Poems, Poetry, and Poetics.

Department: English
Course: ENG 112
Title: Classical and Scriptural Backgrounds
Cross-listed: REL 140; CLA 140
Instructor: Peck, R
Description: Fall 2008. This course in the classical and scriptural backgrounds to modern English and American literature demonstrates how great books such as Homer's Iliad and Odyssey, Aeschylus' Oresteia, Sophocles' two Oedipus plays, Euripides' Trojan Women and The Bacchae, Plato's Symposium and other dialogues, Aristotle's Poetics, Virgil's Aeneid, the Hebrew Bible and the New Testament, and Dante's Inferno define the core of Western Civilization. All of the works we read will be familiar, whether you have read them before or not. That is, they and we are part of the same tradition. They have been rewritten again and again by every generation of writers since classical times. Peck loves this course like his own soul, which, he insists, lurks somewhere in every one of the readings. Applicable English Cluster: Medieval Studies.

Department: English
Course: ENG 113
Title: British Literature I
Instructor: Mannheimer, K
Description: Fall 2008. This course immerses students in the most challenging, influential, and engaging writings from the earlier periods of English literature. Our aim will be to enjoy and understand these writings in themselves, and then to see their relation to each other and to their larger historical context. Students should leave the course with some real affection for particular writings, and some assured sense of the contours and highlights of cultural history. Our emphasis will be on the careful appreciation of language and texture in representative texts and authors (including Chaucer, Spenser, Shakespeare, Donne, Jonson, Milton, Dryden, Swift, Pope and their contemporaries).

Class will proceed by lecture and discussion. Applicable English Cluster: Great Books, Great Authors.

Department: English
Course: ENG 117
Title: Introduction to the Art of Film
Cross-listed: AH 136, FMS 132
Instructor: Middleton, J
Description: Fall 2008. As an introduction to the art of film, this course will present the concepts of film form, film aesthetics, and film style, while remaining attentive to the various ways in which cinema also involves an interaction with audiences and larger social structures. Applicable English Cluster: Media, Culture, and Communication.

Department: English
Course: ENG 120
Title: Introduction to Creative Writing
Instructor: Li, S
Restrictions: Permission of Instructor required **Class Size: 15**
Description: Fall 2008. 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: English
Course: ENG 122
Title: Creative Writing - Poetry
Instructor: Rajan, S **Class Size: 15**
Restrictions: Permission of instructor required
Description: Fall 2008. 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: English
Course: ENG 123

Title: Playwriting
Description: Fall 2008. A course devoted to the understanding and execution of dramatic writing that is unique to the theatre. Students will analyze and discuss selected readings while writing an original one-act play to be completed by the end of the semester. Meets during one half of the semester only. Contact the Theatre Program at 275-4959 for details. Applicable English Cluster: Creative Writing.

Department: English
Course: ENG 130
Title: Seminar in Writing: Creative Ethnography
Cross-listed: ANT 274; CLT 208G
Instructor: Emmett, A
Description: Fall 2008. Please see description for ANT 274.

Department: English
Course: ENG 131
Title: Reporting and Writing the News
Instructor: Memmott, J
Restrictions: Permission of instructor required
Coursework: Weekly quizzes
Description: Fall 2008. Reporting and Writing the News introduces the student to journalistic writing and reporting techniques. Through a variety of classroom exercises, seven major writing assignments and a term paper, students learn to prepare accurate, balanced, complete coverage of a news topic. Students progress from single-source interviewing to news profiles, speech coverage, meetings, more complex formats, and finally, news analysis. Additional writing experience is gained through rewriting assignments, as directed by detailed editing comment. From lecture, textbooks, reading daily and periodical newspapers, the students learn to identify newsworthy topics and to develop appropriate interview techniques to produce clear, objective reports under specific deadlines. Applicable English Cluster: Media, Culture, and Communication.

Department: English
Course: ENG 134
Title: Public Speaking
Instructor: Smith, C
Coursework: ENG 134 contains two quizzes, a final exam, and four speeches to be given by the student. Speeches include a tribute, persuasive, explanatory, and problem solving address. A number of impromptu addresses will also be given.
Description: Fall 2008. Basic public speaking is the focus of this course. Emphasis is placed on researching speeches, using appropriate

language and delivery, and listening critically to oral presentations. English 134 contains two quizzes, a final exam, and four speeches to be given by the student. The speeches include a tribute, persuasive, explanatory, and problem solving address. Applicable English Cluster: Media, Culture, and Communication.

Department: English
Course: ENG 135
Title: Debate
Instructor: Johnson, K
Description: Fall 2008. The purpose of this course is to give students an appreciation for and knowledge of critical thinking and reasoned decision-making through argumentation. Students will research both sides of a topic, write argument briefs, and participate in formal and informal debates. Students will also be exposed to the major paradigms used in judging debates. Applicable English Cluster: Media, Culture, and Communication.

Department: English
Course: ENG 170
Title: Technical Theater
Instructor: Rice, G
Description: Fall 2008. 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: English
Course: ENG 172
Title: Intro to Stage Lighting & Sound
Instructor: Rice, G
Description: Fall 2008. An introductory/intermediate course on the materials, techniques and equipment involved in Sound and Lighting as used in theatrical applications. Focuses on the principals and practices of implementation and design. Safety practices will be taught. Course will include lecture, one-on-one tutorials, and hands-on practical laboratory work in association with a production of the International Theatre Program.

Department: English
Course: ENG 174
Title: Acting Techniques I
Description: Fall 2008. An introductory/intermediate course on the materials, techniques and equipment involved in Sound and Lighting as used in theatrical applications. Focuses on the principals and practices of implementation and design. Safety practices will be taught. Course will include lecture, one-on-one tutorials, and hands-on practical laboratory work in association with a production of the International Theatre Program.

Instructor: Hoskins, D.
Description: Fall 2008. Acting Techniques I focuses on developing the students ability to analyze texts from a performers viewpoint; on heightening the actors sensitivity to language; on developing the actors physical and vocal technique; on building awareness of character and characterization; and on engaging and actively developing creativity and imagination. This is done by constant investigation, rehearsal, and presentation of assorted texts ranging from poetry to contemporary and classical scenes and monologues. Attendance at all classes is mandatory. No prior acting experience or classwork is required. Please note: students taking Acting Techniques I are also required to register for a lab class, ENG 174A.

Department: English
Course: ENG 176
Title: Voice and Movement for the Actor I
Instructor: Ware, S, Browne, P **Class Size:** 16
Description: Fall 2008. An introductory course on voice and movement for the actor, concentrating on the ability of the actor to maximize the use of the body and voice to express emotion and character.

Department: English
Course: ENG 180
Title: Directing
Instructor: Maister, N **Class Size:** 15
Description: Fall 2008. This is an introductory course focusing on directing for the theatre. The class will guide students through the directing process: from textual interpretation and production conceptualization, through staging and visualization, to working with actors. Please note: students taking Directing are also required to register for a lab class, ENG 180A.

Department: English
Course: ENG 201
Title: The Rewritable Beowulf: Context, Translation, Popularization
Cross-listed: ENG 401
Instructor: Higley, S
Description: Fall 2008. Old England's Beowulf, put in the recent limelight by award-winning poet Seamus Heaney and the recent film by Robert Zemeckis, has been the domain, invisible to the public, of academia, wherein we find voluminous discussion of folklore material, teratology (study of monsters!), orality and literacy, historicity, gender, narrative, poetic technique, translation theory, and the volatile debates about dating it. This course will read this famous eleventh- (or seventh??) century epic in various modern renderings. For the poem itself and its story we will look at

Howell Chickering with facing page original text and the acclaimed Seamus Heaney translation, newly presented by John Niles with illustrations of Anglo-Saxon manuscripts and artifacts. We will make some excursions into Anglo-Saxon language, noted passages in the original Anglo-Saxon, related texts from Old Norse literature (notably Grettis Saga, Hrolfskraki Saga, and others). We will read prominent critical materials written of it, and view and discuss the four films made of it. I hope to explore the enigmatic quality of this one and only version (collected in the Nowell Codex, available on CD-ROM at the Robbins Library). Why does it elude us? Is its written form a late production of an earlier oral poem? What is its beauty and appeal? Why the digressions? What does it reveal about the people who produced it and why must we rewrite it, almost always giving the celibate and slightly monstrous hero some kind of love-interest that will make us able to relate to him? This course will fulfill the medieval as well as the Great Books/Authors clusters. For English majors, it fulfills the pre-1800 requirement.

Department: English
Course: ENG 206
Title: Medieval Celtic Literature in Translation
Cross-listed: ENG 406, WST 206
Instructor: Higley, S
Description: Fall 2008. The literature for this course, written mostly in Middle Welsh and Old Irish of the ninth to fifteenth centuries, will be taught in translation. We shall focus on two powerful myths - that of the euhemerized "goddess" (Aranrhod, Ceridwen, Morgana, Medb, the Morrigan, Rigantona) and her encounters with the knight, the male magician/poet, and the "warrior" (Arthur, Cuchulain, Finn, Gwydion, Pwyll). We will be looking at the Welsh "Mabinogion" for its insights into male and female relationships; at "The Tain" and the legend of Cuchulain, whose martial "warp-spasm" could only be cooled by vats of water and the sight of naked women; at the "Fianna", which tells of Finn and his mannerbund of misbehaving warrior-boys; at selected poems in Old Irish and Middle Welsh. Applicable English clusters: Medieval Studies; Gender and Writing. It will fulfill the pre-1800 requirement for the English major.

Department: English
Course: ENG 206
Title: Dante's Divine Comedy I
Cross-listed: IT 196Q/221; CLT 117Q/253D; REL 198Q/286
Instructor: Stocchi-Perucchio

Description: Fall 2008. See course description for IT196Q. Fulfills the pre-1800 requirement for the English major.

Department: English
Course: ENG 207
Title: English Renaissance Literature
Cross-listed: ENG 407
Instructor: Guenther, G
Description: Fall 2008. This course will survey the non-dramatic poetry and prose of the English Renaissance. We will focus on Spenser, Donne, and Milton, but we will also pay attention to the non-dramatic writings of Marlowe and Shakespeare, as well as the work of less-familiar authors, such as Wyatt, Sidney, Lyly, Foxe, Jonson, Bacon, Herbert, and Marvell. Topics for discussion will include humanism, court politics, reformation theology, early modern gender, the new science, the English civil war, and colonialism. Course requirements: attendance, two papers, a midterm, and a non-cumulative final.

Department: English
Course: ENG 210
Title: Shakespeare
Instructor: Kegl, R
Description: Fall 2008. 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 audience's cultural, literary, political, and religious concerns; and ask how Renaissance stage practices might help us to better understand his plays and better appreciate why Renaissance audiences found them so compelling. Classes will center around careful study of individual plays. We will discuss, among other topics, Shakespeare's method of constructing his characters' psychological interiority, his staging of funeral pageants and madness, his use of anachronism, his interest in memory, his insistent references to contemporary performance practices (including the Renaissance tradition of boy actors playing women's roles), and his depiction of proper relations between ruler and subject, husband and wife, parents and children, and European and non-European characters. We also will become familiar with 16th and 17th century theatrical spaces - their geographical location and physical properties, the composition of their audiences, the training and performance practices of their actors, and the aesthetic, economic, and political contexts of their productions. Fulfills the pre-1800 requirement for the English major. Applicable English clusters: Great Books,

Great Authors; Plays, Playwrights, and Theater.

Department: English
Course: ENG 213
Title: The English Renaissance Lyric
Cross-listed: ENG 413
Instructor: Guenther, G
Description: Fall 2008. This course will survey the English Renaissance Lyric, from Wyatt to Marvell. Our authors will include Gascoigne, Sidney, Spenser, Shakespeare, Donne, Jonson, Herrick, Lovelace, Herbert, Traherne, and Vaughan. Although the majority of our class time will be spent close-reading individual poems, we will also pay attention to literary convention and historical context in order to learn to read and analyze the poems with as much comprehension and pleasure as possible. Course requirements: attendance, two papers, a midterm, and a non-cumulative final.

Department: English
Course: ENG 217
Title: Restoration and 18th Century Drama
Instructor: Mannheimer, K
Cross-listed: ENG 417
Description: Fall 2008. In 1660, after an eighteen-year ban on theatre, the English playhouses reopened, and quickly proved their vitality. Women acted on stage for the first time, radically changing the dynamics of performance, as well as the way that plays were written. The period also saw the rise of the professional female playwright, as well as the emergence of the Celebrity Actor. Comedy flourished in particular, relishing in bawdy repartee and the figure of the Rake, while exploring gender roles, the institutions of courtship and marriage, relations between children and parents, and the value of Wit. By the beginning of the eighteenth century, the object of humor was often the theatre itself: playwrights pushed the limits of traditional genres such as the Heroic Tragedy, and introduced elements of farce, opera, and political satire, as well as reflections of middle-class life. This course will examine a variety of plays, while also considering issues of social context, genre and performance. Playwrights will include Behn, Centlivre, Congreve, Dryden, Etherege, Farquhar, Fielding, Gay, Goldsmith, Steele, and Sheridan.

Department: English
Course: ENG 222
Title: Nineteenth-Century British Novel
Cross-listed: ENG 422; WST 222
Instructor: Rajan, S

Description: Fall 2008. This course introduces students to some of the major novelists in nineteenth-century British literature. While the course provides broad coverage of the nineteenth-century British novel, our discussion of these select nineteenth-century novels will be guided by the theme of possession. What is the connection, this course asks, between marriage and romance and other forms of possession such as land, money, or things, in the nineteenth-century British novel? In addressing this question, we will discuss how narrative devices like the marriage-plot offer vehicles for novelists such as Jane Austen, Charlotte Bronte, Charles Dickens, and George Eliot to explore the linkages between romance, sexuality, property, and capitalism. While possession may be a major theme underlying the courses structure, we will also discuss other topics such as nationalism, the woman question and the problem of separate spheres, changes in class structure, and British imperialism. In addition to addressing thematic and political issues, students will also have an opportunity to analyze the aesthetic dimensions of literary texts, paying attention to the techniques writers employ as they shape and experiment with forms of the novel.

Department: English
Course: ENG 223
Title: Madness, Marriage and Monstrosity
Cross-listed: ENG 423
Instructor: London, B
Description: Fall 2008. The 19th c. novel has often been associated with Victorian values: happy marriages; wholesome homes; moral propriety; moderated emotions; properly channeled ambitions. Many of the most popular 19th-century novels, however, paint a very different picture: with madwomen locked in attics and asylums; monsters, real and imagined, lurking behind the facade of propriety; genteel homes harboring opium addicts; fallen women walking the streets; and sexual transgression and degeneracy more common than it would seem. Indeed, for novels so centrally structured around marriage and society, madness and monstrosity appear with alarming regularity. This is especially the case in novels written by women, and in novels (whether written by women or men) written for the significant and rapidly growing female portion of the novel-reading public. These novels' insistent intertwining of the tropes of madness, marriage, and monstrosity suggests some of the cultural anxieties unleashed by this new body of women readers. The course will begin with Frankenstein and end with Dracula, two novels from opposite ends of the century that stand as meditations on the courses central themes. In between, we will consider such classic marriage plot novels as Pride and Prejudice and Jane Eyre; we

will also look at some examples of the popular sensation fiction of the 1860s (The Woman in White and Lady Audley's Secret). Applicable clusters: Gender and Writing; Novels.

Department: English
Course: ENG 227
Title: American Moderns
Cross-listed: ENG 427
Instructor: Grella, G
Restrictions: Not open to freshmen
Description: Fall 2008. The course covers the period roughly between World War I and World War II, dealing with the rich creativity we associate with Modernism. We will read and discuss such writers as Eliot, Faulkner, Hemingway, Dos Passos, Steinbeck, etc., studying not only the works but some of the major trends in art, culture, and knowledge that make the modern period so important and exciting. The method will be a combination of close reading, lecture, and discussion with (probably) one short paper and one longish paper. Not open to freshmen. Applicable English Clusters: American and African American Studies; Modern and Contemporary Literature.

Department: English
Course: ENG 232
Title: Modern Literature
Cross-listed: ENG 432
Instructor: Longenbach, J
Coursework: Requirements: participation in class discussion, two papers, several short tests, and a final exam.
Description: Fall 2008. Looking back over the twentieth-century, this course will concentrate on the innovative, often wildly experimental writing produced in the period we still call "modernist". We will concentrate on five writers, two of them American (T.S. Eliot and Ezra Pound), two of them Irish (W.B. Yeats and James Joyce), and one of English (Virginia Woolf). We will read some of the most beautiful and ambitious works of the century (Eliot's "Waste Land", Woolf's "Mrs. Dalloway"), but the centerpiece of the course will inevitably be our extended reading of Joyce's novel "Ulysses" - one of the most difficult, most rewarding books in our language. And while we will consider the individual achievements of all the writers, we will also consider their work in the context of the avant-garde aesthetic and social movements in which these writers participated. Applicable English cluster: Modern and Contemporary Literature.

Department: English
Course: ENG 240

Title: Literature and Politics
Cross-listed: ENG 440
Instructor: Kegl, R
Description: Fall 2008. This course focuses on a range of critical debates and literary practices associated with defining the "and" in Literature and Politics. We consider, among other topics, the consequences of style and form, conditions of production and reception, and shifting definitions of the literary critics' possible objects of analysis. We will read critics whose remarks about literature and politics are indebted to feminism, global studies, Marxism, post-Marxism, queer theory, studies of gender, and studies of race. We analyze the writing of both canonical and less canonical authors from Shakespeare to the present, organized into units such as "popular theater" and "life writing."

Department: English
Course: ENG 243
Title: Don Quixote: Book, Myth, Image
Cross-listed: CLT 256B, SP 215
Instructor: Prendergast, R
Description: Fall 2008. See description for SP 215.

Department: English
Course: ENG 245
Title: Russian Drama
Cross-listed: RUS 222, CLT 265, RST 222
Instructor: Maslennikova, A
Description: Fall 2008. See RUS 222 for description.

Department: English
Course: ENG 247
Title: Science Fiction
Cross-listed: ENG 447
Instructor: Tucker, J
Description: Fall 2008. As contemporary readers continue to search for new and exciting types of writing, and as "cyberculture" rapidly becomes more main stream, science fiction becomes increasingly important to scholars of American literature and culture as context in which to address genre and responses to changes in technology. This course covers a range of science fiction texts and issues, including the genre's European literary antecedents, its "roots" in American periodical fiction, the emergence of the science fiction novel, the genre's treatment of issues of difference, cyberpunk, and beyond. Readings include Isaac Asimov's I, Robot, Octavia Butler's Kindred, Samuel R. Delany's Nova, William Gibson's Neuromancer, Maureen McHugh's China

Mountain Zhang, and more. Requirements include weekly one-page response papers and two 5-7-page papers.

Department: English
Course: ENG 250
Title: Race in American Fiction
Cross-listed: ENG 450, WST 233
Instructor: Li, S
Description: Fall 2008. Starting with an introduction to critical race theory, this course will examine representations of race in 19th and 20 century American literature. We will focus on the relationship between racial constructions and the development of a national identity through a broad collection of works including novels, memoirs, scientific and legal documents and films. Students will explore the nature of racialized identity, the possibilities of passing and hybridity, definitions of citizenship, the relationship between class and race, and opposing constructions of whiteness and blackness. Authors to be studied include Herman Melville, Kate Chopin, James Weldon Johnson, William Faulkner, Zora Neale Hurston, Ralph Ellison, Toni Morrison, Richard Rodriguez and Junot Diaz among others.

Department: English
Course: ENG 252
Title: Theater in England
Cross-listed: ENG 452
Instructor: Peck, R
Restrictions: Permission of instructor required
Description: Fall 2008. Theater in England will be conducted in London from Saturday, December 29, 2008, through Saturday, January 10, 2009. Students should arrive in London no later than the evening of December 28. They may return on Sunday, January 11. We will see and have classes on approximately 20 plays. At the end of the course, students will submit a journal that discusses all the plays seen. The journal is due at the beginning of the third week of classes after we get back. I do not yet know what plays we will be seeing, but you can be certain that we will see the best of what is available in the world's theater Mecca. Last year we saw such productions as Ian McKellen in Shakespeare's King Lear, Simon Russell Beale and Zoe Wanemaker in a legendary production of Much Ado About Nothing, and Chiwetel Ejiofor's definitive performance in the title role of Othello. As an out of town break, we went to Stratford-upon-Avon to do homage to Shakespeare, and see David Warner's Falstaff in Henry IV, Parts I and II. The range of the offerings was terrific, from Nick Stafford's War Horse (with its amazing larger than life puppetry) and a fascinating

Class Size: 20

adaptation of Euripides' Women of Troy to a brilliant example of in-yr-face theater in Anthony Nielson's God in Ruins. We saw big musicals like Billy Elliot and Mary Poppins and fringe productions like Fletcher's Custom of the Country and Neil Labute's Bash. For information about the course over the past sixteen years go to www.courses.rochester.edu/peck/theatre/ The course is restricted to 23 students and carries 4 credits. The fee is \$2500.00, which includes tickets to all plays and housing. Students must obtain passports and make their own travel arrangements. You may obtain the application from the English Department or Professor Peck. You need permission of the instructor to register. Contact Professor Russell Peck (russell.peck@rochester.edu, phone 275-0110 or 585-473-7354).

Department: English
Course: ENG 254
Title: Arthurian Traditions
Cross-listed: ENG 454
Instructor: Peck, R.
Exams: Three-hour final exam
Coursework: Two essays
Description: Fall 2008. More than any other legends, apart from those of the Bible, the stories of King Arthur have provided Western Europe and North America with a vehicle for cultural propaganda, reassessment, and pleasure. From the 12th to the 21st centuries, artists in all genres and modes have recast Arthurian narratives and images to explore and redefine the moral and social concerns of their day. After a brief introduction to Arthurian backgrounds, the course focuses on Geoffrey of Monmouth and Arthurian literature of the High Middle Ages (Chretien de Troyes and Marie de France) and England in the 14th century, then examines the culmination and decline of that ideology toward the end of the 15th century (Malory), the reinvigoration of the myth in new directions in the Renaissance (Spenser), and then concludes with readings and art of the nineteenth century (Tennyson, the PreRaphaelites, Twain) and the twentieth century (T.S. Eliot, E.A. Robinson, T.H. White, and Marion Zimmer Bradley). We will study seven movies: Lerner and Loewe's "Camelot," Disney's "Sword in the Stone," "The Fisher King," "The Mighty," "Monty Python and the Holy Grail," Spielberg's "Indiana Jones and the Last Crusade," and Borman's "Excalibur." The readings for the course are extensive and richly rewarding, as are the viewings. Texts from the medieval English period will be studied in the original Middle English dialects. Readings from Latin and French will be in modern English translation. Applicable English Cluster: Medieval Studies; Literature and Cultural Identity.

Department: English
Course: ENG 255
Title: Film History: Early Cinema
Cross-listed: ENG 455; FMS 233W; AH 252
Instructor: Loughney, P
Description: **Class Size:** 30
 Fall 2008. An introduction to the history, technology, and cultural significance of motion pictures of the pre-sound era, with screenings of 35mm prints accompanied by live music in the Dryden Theatre. Special attention will be paid to the major pioneers, Dickson, Porter, Lumiere, Melies, and Griffith, but the course will include a variety of internationally produced films selected from the world famous archival film collection of the George Eastman House. Discussion sessions will cover the origins and development of the motion picture industry and its leading genres up to the general introduction of movies with pre-recorded music, sound and dialog, beginning in 1927. Broad issues relating to the transformation of American and world popular entertainment forms and traditions, in relation to the established performing arts of the period, will also be covered. Relevant connections to preserving the world's film heritage will be highlighted and the film restoration facilities of the Motion Picture Department will be visited in the course of the semester. Students will be expected to take a mid-term exam and write one paper. Meets at George Eastman House. Applicable English Cluster: Media, Culture, and Communication.

Department: English
Course: ENG 256
Title: Film History: 1929 - 1959
Cross-listed: ENG 456; FMS 234; AH 253; CLT 218
Instructor: Willis, S
Description: Fall 2008. This course provides a transnational survey of film history, examining the technical and formal aspects of the medium in its production and exhibition. As we explore the development of cinema during this period, we will address a number of aesthetic and technological issues. For example, how did the development of sound technology affect film form? How did it affect cross-cultural cinematic exchange? What is the significance of genre across various film traditions? What did the studio system contribute to Hollywood's success in the international market? How did immigrant and exiled film personnel shape the industries they joined? Weekly screenings and film journals required.

Department: English
Course: ENG 262
Title: Studies in a National Cinema - Chinese Cinemas

Instructor: Gladfelder, H.
Cross-listed: ENG 462; FMS 256M
Description: Fall 2008. The course examines diasporic Chinese cinemas from the People's Republic of China (PRC), the Republic of China on Taiwan (ROC), Hong Kong (HK), and perhaps even the U.S. and Canada, from the 1960s to the present. We will pay special attention to the migrations of individuals (actors, directors, cinematographers, and others) and to texts (the films and in some cases television programs). We will cover a wide variety of genres, including epic, martial arts, action, thriller, comedy, and drama. The majority of our films are in Mandarin Chinese and all are subtitled in English. Some experience with film studies, especially world cinema, and Chinese history will be helpful but not required. Outside screenings of films are required. Applicable English cluster: Media, Culture, and Communication. Not open to students who took Eng 267, Topics in Media Studies: Chinese Cinemas, in fall 2004.

Department: English
Course: ENG 264
Title: Studies in a Director: Alfred Hitchcock
Instructor: Grella, G.
Cross-listed: FMS 253A, ENG 464
Description: Fall 2008. An examination of the career of Alfred Hitchcock (1899-1980), emphasizing the close analysis of his most significant and influential works, from the 1926 British silent thriller *The Lodger* to such late-period American films as *Vertigo*, *Psycho*, and *Frenzy*. As we discuss the films, we will also consider questions of cinematic authorship, the development of a recognizable visual and narrative style, and the significance of genre (thriller, romantic melodrama, horror film, et al.). We will approach the films from a variety of critical perspectives including auteur theory and genre theory. Readings will include one critical study of the entire body of the director's work and a biography; other readings may also be required. Applicable English cluster: Great Books, Great Authors.

Department: English
Course: ENG 265
Title: Issues in Film: Family Repression and Rage in Film and Society
Cross-listed: ENG 465; FMS 252A; WST 265 **Class Size:** 25
Instructor: Bleich, D
Restrictions: Permission of instructor required
Description: Fall 2008. The course aims to understand the social psychology of modern and contemporary Western/American family experience, and especially its means of abetting the concealment, repression, and suppression of people's emotional lives. Study of

the films combines with the readings seek to develop critical understanding of the nuclear family (and versions of it) and the conditions it may create for child-rap, racism, homophobia, murder and self-destructive behavior such as substance abuse, self-mutilation, and suicide. Sometimes the violence is arbitrary, sometimes it is inevitable, sometimes it is incomprehensible. In each case the course's attention is on the personal and collective machineries of repression, the resulting rage in many individuals, and the frequent (and now often familiar) violent results. Readings in the course include those by Erik Erikson, Nancy Chodorow, Alice Miller, and Stephanie Coontz. Films are to be taken from the following list: *A Price Above Rubies* (1998), *A Thousand Acres* (1994), *All My Sons* (1948), *American Beauty* (1999), *American History X* (1999), *Bastard Out of Carolina* (1996), *Crimes and Misdemeanors* (1989), *Dolores Claiborne* (1995), *Falling Down* (1993), *Fargo* (1996), *Fried Green Tomatoes* (1992), *Heavenly Creatures* (1994), *In the Bedroom* (2001), *Ju Dou* (1991), *Mildred Pierce* (1945), *Monster* (2002), *Monster's Ball* (2001), *Ordinary People* (1980), *Piano Teacher*

Department: English
Course: ENG 270
Title: Advanced Technical Theatre
Instructor: Rice, G **Class Size:** 15
Description: Fall 2008. 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 two Fall 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: English
Course: ENG 275
Title: Advanced Creative Writing: Fiction
Cross-listed: ENG 475
Instructor: Scott, J **Class Size:** 15
Prerequisites: ENG 121
Restrictions: Permission of instructor required
Description: Fall 2008. This workshop is for advanced fiction writers who have completed ENG 121 or have permission from the instructor. The course emphasizes the development of each student's individual style and imagination, as well as the practical and technical concerns of a fiction writer's craft. Readings will be drawn from a wide variety of modern and contemporary writers.

Students will be expected to write three original short stories as well as to revise extensively in order to explore the full range of the story's potential. Applicable English Cluster: Creative Writing.

Department: English
Course: ENG 285
Title: Advanced Writing and Peer Tutoring
Cross-listed: WRT 245
Instructor: Rossen-Knill, D **Class Size:** 15
Restrictions: Special application required
Description: Fall 2008. Please see WRT 245 for the course description.

Department: English
Course: ENG 286
Title: Presidential Rhetoric
Instructor: Smith, C **Class Size:** 30
Description: Fall 2008. "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: English
Course: ENG 287
Title: Studies In Translation
Instructor: Michael, J
Cross-listed: ENG 487; LTS 200; CLT 287, CLT 487
Prerequisites: Students must have knowledge of at least one language other than English adequate to complete the practical translation exercise
Description: Fall 2008. This course will introduce students to the theoretical backgrounds, practical challenges, and creative activity of literary translation. We will survey appropriate theories of language and communication including semiotics, post-structuralism, pragmatics, discourse analysis, and cognitive linguistics. We will consider varied and conflicting descriptions by translators of what it is they believe they are doing and what they hope to accomplish by doing it; and we will study specific translations into English from a variety of sources in order to investigate the strategies and choices translators make and the

implication of those choices for our developing sense of what kinds of texts translations actually are. Finally, students will, in consultation with the instructor or with another qualified faculty member, undertake exercises in translation of their own. By the end of this class each student should have a working knowledge of both the critical backgrounds and the artistic potentials of translation.

Department: English
Course: ENG 290
Title: Plays in Production
Instructor: Maister, N, Rice, G, Gellert, S
Description: Fall 2008. 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: English
Course: ENG 292
Title: Plays in Performance: You Can't Take It With You
Instructor: Gellert, S
Restrictions: Permission of instructor required
Description: Fall 2008. Plays in Performance is a class made up of actors, assistant directors 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. Permission of instructor required. Applicable English Cluster: Plays, Playwrights, and Theater.

Department: English
Course: ENG 294
Title: Plays in Performance: New Play Workshop
Restrictions: Permission of instructor required
Description: Fall 2008. 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. Permission of instructor required. Applicable English Cluster: Plays, Playwrights, and Theater.

Department: English
Course: ENG 296
Title: Stage Management I
Instructor: Rice, G, Maister, N
Description: Fall 2008. Students in Stage Management I and/or II (Fall/Spring) 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.

Department: English
Course: ENG 298
Title: Performance Lab I: You Can't Take It with You
Instructor: Childs, R
Restrictions: Permission of instructor required
Description: Fall 2008. 1.0 credit/Pass-Fail. This class is a lab tutorial for actors cast in productions in Todd Theatre. Working one-on-one with an acting and voice coach, students tackle specific technical challenges raised by their involvement in the specific theatrical work in production.

Department: English
Course: ENG 360
Title: Special Projects: Theatre
Instructor: Maister, N, Rice, G
Description: Fall 2008. 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 380
Title: Robin Hood: Media Creature
Cross-listed: ENG 480
Instructor: Hahn, T
Restrictions: Permission of Instructor Required
Description: Fall 2008. This course, part of the Kauffman Entrepreneurial Program, will address the popularity of the outlaw hero Robin Hood across six centuries and through a variety of media, including oral stories; popular and art songs; manuscripts, broadsheets and ballads; chapbooks and tabloid "lives"; comics, serials, and children's literature; woodcuts, engravings, chromolithographs, and high-end illustrations; silent and sound film, animation, TV series, and video. The course will require shared readings (including writings on media theory and history), but much of the work will entail individual research that will be available to other class members through live discussion and through the computer and website that will constitute the "research lab." Each member of the class will be expected to produce several projects based upon genuine expertise through research, editing, and digitization. Students will ultimately have the chance to make their discoveries available to a wider audience through Robin Hood: A Digital Archive; part of the class will be devoted to its development. This process of research and investigation, of assembling and editing materials, of preparing texts and images for non-academic audiences will form part of the entrepreneurial focus of the course. Ultimately, the course, like the site, will attempt to enable mixed audiences to have digital access to those material objects and practices that provide the basis for reconstructing our understanding of popular culture over the last 500 years, insofar as Robin Hood and outlawry provide a focus. Note: Students in English 380 may elect to enroll for an additional two credits of directed research work in a Humanities Research Lab course (English 381).

Department: English
Course: ENG 381
Title: Humanities Research Lab
Instructor: Hahn, T
Description: Fall 2008. This course provides opportunities for directed research in connection with English 380, "Robin Hood: Media Creature." Students will receive training in Humanities research methods and objectives, and then, in cooperation with the instructor, will design an independent research project that should produce genuine expertise concerning an author, artist, or set of texts, the history of print culture (including broadsheets, garlands, chapbooks, and popular books), or the history of other media (woodcuts, engravings, printed images, film, TV, and so on).

Students will ultimately have the chance to make their discoveries available to a wider audience through Robin Hood: A Digital Archive. Students do not have to enroll in English 380 in order to enroll in 381. Two credit course.

Department: English
Course: ENG 396
Title: Honors Seminar: The Literature of Confusion
Instructor: Scott, J **Class Size:** 15
Restrictions: Special application required
Description: Fall 2008. What can prominent English and American writers of the 20th century tell us about a subject that, by definition, resists our understanding? What can we learn from literature about confusion and the intricacies of contradictory thought? How do we make sense of senselessness? These are the main questions we will address as we examine important modern and contemporary works of fiction, poetry, and drama that represent encounters with confusion and enact the struggle to communicate meaning. We'll look at important precedents in the stories of Gogol, Poe and Melville. We'll read novels by Conrad, Woolf, Mann, and Sebald, short fiction by a variety of modern and contemporary writers (including Stein, Baldwin, and Barthelme), the poetry of T.S. Eliot, and plays by O'Neill and Beckett. This class is limited to senior English majors who have been accepted into the Honors Program.

Department: English
Course: ENG 398
Title: Theatre Internship: PR & Marketing **Class Size:** 8

Instructor: Maister, N
Restrictions: Permission of instructor required
Description: Fall 2008. 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 Theatre Program.

Department: English
Course: ENG 401
Title: The Rewritable Beowulf: Context, Translation, Popularization

Cross-listed: ENG 201
Instructor: Higley, S **Class Size:** 5
Description: Fall 2008. See description for ENG 201.

Department: English
Course: ENG 406
Title: Dante's Divine Comedy I
Cross-listed: ENG 206
Instructor: Stocchi-Perucchio, D
Description: Fall 2008. See description for ENG 206.

Department: English
Course: ENG 406
Title: Medieval Celtic Literature
Cross-listed: ENG 206
Instructor: Higley, S
Description: Fall 2008. See description for ENG 206.

Department: English
Course: ENG 407
Title: English Renaissance Literature
Instructor: Guenther, G
Description: Fall 2008. See description ENG 207

Department: English
Course: ENG 413
Title: The English Renaissance Lyric
Instructor: Guenther, G
Restrictions: Open only to Junior and Senior majors of the offering department
Description: Fall 2008. See description ENG 213.

Department: English
Course: ENG 417
Title: Restoration and 18th C Drama
Instructor: Mannheimer, K
Restrictions: Open only to Junior and Senior majors of the offering department
Description: Fall 2008. See description ENG 217.

Department: English
Course: ENG 422
Title: Nineteenth-Century British Novel
Cross-listed: ENG 222
Instructor: Rajan, S
Description: Fall 2008. Please see description for ENG 222.

Department: English
Course: ENG 423

Title: Madness, Marriage, and Monstrosity
Cross-listed: ENG 223/W
Instructor: London, B
Description: Fall 2008. See description for ENG 223.

Department: English
Course: ENG 427
Title: American Moderns
Instructor: Grella, G
Description: Fall 2008. See description ENG 227.

Department: English
Course: ENG 432
Title: Modern Literature
Instructor: Longenbach, J
Description: Fall 2008. See description for ENG 232.

Department: English
Course: ENG 440
Title: Literature and Politics
Instructor: Kegl, R
Description: Fall 2008. See description ENG 240.

Department: English
Course: ENG 447
Title: Science Fiction
Instructor: Tucker, J
Description: Fall 2008. See description for ENG 247.

Department: English
Course: ENG 450
Title: Race and American Fiction
Cross-listed: Eng 250
Instructor: Li, S
Description: Fall 2008. See course description for ENG 250.

Department: English
Course: ENG 452
Title: Theater in England
Instructor: Peck, R
Description: Fall 2008. See description for ENG 252.

Department: English
Course: ENG 454
Title: Arthurian Traditions
Cross-listed: ENG 254
Instructor: Peck, R

Description: Fall 2008. See ENG 254 for description.

Department: English
Course: ENG 455
Title: Introduction to Film History: Early Cinema
Cross-listed: ENG 255; FMS 233; AH 252
Instructor: Loughney, P
Description: Fall 2008. See description ENG 255

Department: English
Course: ENG 456
Title: Film History: 1929-1959
Instructor: Willis, S
Description: Fall 2008. See description for ENG 256

Department: English
Course: ENG 462
Title: Chinese Cinemas
Cross-listed: ENG 262, FMS 260A
Instructor: Niu, G
Description: Fall 2008. See description for ENG 262.

Department: English
Course: ENG 464
Title: Studies in a Director: Alfred Hitchcock
Instructor: Grella, G
Description: Fall 2008. See ENG 264 for description.

Department: English
Course: ENG 465
Title: Issues in Film: Family Repression and Rage in Film and Soc
Instructor: Bleich, D **Class Size:** 25
Restrictions: Open only to graduate students in offering department
Description: Fall 2008. See description for ENG 265.

Department: English
Course: ENG 475
Title: Advanced Creative Writing: Fiction
Instructor: Scott, J
Description: Fall 2008. See description for ENG 275.

Department: English
Course: ENG 480
Title: Robin Hood - Media Creature
Instructor: Hahn, T
Description: Fall 2008. See ENG 380 for description.

Department: English
Course: ENG 487
Title: Studies in Translation
Cross-listed: ENG 287; LTS 200; CLT 287, CLT 487
Instructor: Michael, J
Description: Fall 2008. See description for ENG 287

Department: English
Course: ENG 489
Title: Selznick Colloquium
Instructor: Bernardi, J
Description: Fall 2008.

Department: English
Course: ENG 500
Title: Graduate Colloquium - Introduction to Graduate Studies in English
Instructor: Hahn, T
Restrictions: Open only to graduate students in offering department
Description: Fall 2008. Introduction to Graduate Studies in English is a semester-long introduction to information, guidelines, and advice concerning Masters and doctoral study in English.

Department: English
Course: ENG 509
Title: Shakespeare
Instructor: Gross, K
Restrictions: Open only to graduate students in offering department
Description: Fall 2008.

Department: English
Course: ENG 543
Title: The Africanist Presence in American Literature
Instructor: Tucker, J
Restrictions: Open only to graduate students in offering department
Description: Fall 2008. Toni Morrison's essay *Unspeakable Things Unspoken* and her volume *Playing in the Dark* revolutionized the study of American literature. In revealing the Africanist presence in the works of white writers, Morrison deconstructed oppositional stances taken in debates about canonicity and offered new ways of reading old texts. Using Morrison's claims as a starting point, this course will analyze the fiction of white writers with a sensitivity for the representations of racial difference in their work. The course will seek to answer the following questions: Is the tradition of American literature a tradition of racial representation? How is blackness figuratively represented? What roles do such Africanisms play in the construction of whiteness,

American citizenship, and white masculinity and femininity in particular? Primary readings include Willa Cather's *Sapphira* and the *Slave Girl*, Charles Dixon's *The Clansman*, William Faulkner's *Absalom, Absalom!*, Ernest Hemingway's *To Have and Have Not*, Edgar Allan Poe's *The Narrative of Arthur Gordon Pym*, William Styron's *The Confessions of Nat Turner*, and more. The readings will be supplemented by criticism by Morrison, Anthony Appiah, Richard Dyer, Ralph Ellison, Frantz Fanon, Judith Jackson Fossett, George M. Frederickson, Walter Benn Michaels, George Lipsitz, David Roediger, and others. Requirements include class participation, a 10-15-minute in-class presentation, and a 12-15-page seminar paper.

Department: English
Course: ENG 550
Title: Postcolonial Theory, Literature & Film
Instructor: Niu, G
Description: Fall 2008. Our course analyzes colonial discourse and imperialism, adding studies of feminism, technology, and globalization. Works range from earlier scholars including Frantz Fanon and Leopold Sedar Senghor to those who seemed to establish the field including Edward Said, Stuart Hall, Gayatri Chakravorty Spivak, and Homi Bhabha-to more recent works. Our readings may include literary authors Chinua Achebe, Ngugi wa Thiong'o, Amitav Ghosh, J.M. Coetzee. We will analyze films directed by Trinh T. Minh-ha, Hou Hsiao-hsien, Ousmane Sembene and many others. In addition, we investigate the ways postcolonial theory has affected the fields of political science, anthropology, history, art, Asian studies, African studies, Latin American studies. This course also examines critiques of postcolonial theorists, the institutionalization of postcolonial studies through studies of scholarly journals, and the role and uses of science and technology from perspectives that champion Internet economy (Thomas Friedman) and those that proceed more skeptically (Donna Haraway, A. Aneesh). The readings will bring together theories of postcolonialism/imperialism with criticisms of globalization. Some experience with film studies will be helpful, but is not required. There are weekly readings and film screenings (either as a group or on your own schedule). In addition to regular contributions in class meetings, seminar participants will research an academic journal in the field, share an annotated bibliography, lead part of a class discussion, write 2 or 3 short responses (2 pages each), and produce an extensive research essay. I encourage everyone to consider presenting this work at an appropriate conference.

Department: English
Course: ENG 551
Title: Critical Theory - Sacralization and Desacralization of Texts in the 20th Century
Instructor: Bleich, D
Description: Fall 2008. This seminar studies the developments in literary theory over the past eighty years. Early in the twentieth century criticism and theory followed the success of science, trying to bring order and method to the subject. Different styles of rigor were sought in Europe and America by such figures as I. A. Richards, Roman Ingarden, the Russian Formalists, Northrop Frye, and the New Criticism. In this phase written texts were treated as holy texts had been treated for centuries, as having a higher, holier status than other, vernacular language genres. Criticism and theory followed the standard set by both scientific and religious ideology. In so doing, it followed the androcentric tradition of the academy. In the middle of the twentieth century, figures such as Ludwig Wittgenstein and Mikhail Bakhtin presented a point of view that held no language genres to be holy or otherwise elevated from others. They described a language philosophy that viewed symbolic genres as texts to be understood in relation to their roles in society and not as holy writ. The work of these figures, as well as successors such as J. L. Austin (speech act theory), Jacques Derrida and Barbara Johnson (deconstruction), Julia Kristeva (language materialism), Tzvetan Todorov, feminist critics, and genre critics, added up to a movement of desacralization. Canons were deauthorized. Authors authority was diminished. Texts could be played with. The Bible was re-understood as a human text. Writers and genres of many stripes were admitted to academic study. Popular culture became important. Criticism and theory tried and sometimes helped to open the study of language and literature to all people. People tried to give globalization a humanist feel. The academy began to be populated by women and members of non-dominant groups. The seminar tries to outline the foregoing lines of development, aiming, perhaps, to consider how criticism and theory, like literature, are changing social practices.

Department: English
Course: ENG 552
Title: What is Genre?
Instructor: Middleton, J.
Restrictions: Open only to graduate students in offering department
Description: Fall 2008. What is Genre? examines the development of film genre theory from the late 1940s to the present. The course will examine genre theory's intersections with other critical approaches including auteurism, structuralism, semiology, and

critical race and gender studies. It will seek to situate the effects of genre study upon the development of film studies as a discipline. Weekly screenings will consist primarily of classical Hollywood films representing a spectrum of genres, as well as some more recent work that challenges conventional genre demarcations.

Department: English
Course: ENG 557
Title: Writing Home: Gender, Nation, and Contemporary Womens Writing
Instructor: London, B
Restrictions: Open only to graduate students in offering department
Description: Fall 2008. The last decades of the 20th century and the first of the 21st have seen a virtual explosion of writing by women, with novels and memoirs by women constituting some of the most widely read and critically admired work being produced today. Among the distinctive features of this writing has been its experimentation with new voices and narrative forms, often resulting in novels that blur the traditional borders of the genre. At the same time, much contemporary writing by women has deliberately turned to the past for its inspiration and self-consciously appropriated, or rewritten, earlier literary and cultural forms. Central to much of this work (and to its dual forward- and backward-looking impulses) has been an interrogation of the vexed question of home, particularly as it manifests itself in literature of possession, dispossession, exile, migration, and hybridized identity. Looking at the way ideas of home (as domestic space and as homeland or nation) have both enabled and inhibited womens voices, this course invites students to explore what it means for women to claim home in their writing. We will read a number of fictional works by British and American women (from a variety of race, class, regional, and ethnic positions) as well as writings by women whose homelands are in Africa, South Asia, and the Caribbean. Readings will also include theoretical work on feminism, postcolonial studies, diaspora, globalization, and new immigrant literatures and identities.

Department: English
Course: ENG 571
Title: Writing Pedagogy
Instructor: Rossen-Knill, D
Description: Fall 2008. This course introduces graduate students to the scholarly issues on rhetoric, composition, literacy, and cultural studies that focus on the teaching of writing. The class will examine a significant range of theory and research on teaching and academic writing. Using this background of research,

students will create a syllabus for English 103, and they will write a syllabus rationale for the course.

Film and Media Studies

Department:	Film and Media Studies
Course:	FMS 132
Title:	Introduction to the Art of Film
Cross-listed:	ENG 117/AH 136
Instructor:	Middleton, J.
Description:	Fall 2008. Please see ENG 117 for the course description.
Department:	Film and Media Studies
Course:	FMS 161
Title:	Introductory Video & Sound
Cross-listed:	SA 161
Instructor:	Merola, K. Class Size: 10
Restrictions:	Permission of instructor required
Description:	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 the course. Enrollment is limited to 12.
Department:	Film and Media Studies
Course:	FMS 225
Title:	The Social Issues of Media: Anthro Persp on Media in Global & Local Contexts
Cross-listed:	ANT 225/AH 230
Instructor:	Kim, E. Class Size: 20
Description:	Please see ANT 225 for the course description.
Department:	Film and Media Studies
Course:	FMS 233
Title:	Introduction to Film History: Early Cinema
Cross-listed:	ENG 255/455/AH 133/233W/FMS 233W
Instructor:	Loughney, P. Class Size: 20
Description:	Fall 2008. Please see ENG 255 for the course description.
Department:	Film and Media Studies
Course:	FMS 234
Title:	Introduction to Film History: 1929-1959
Cross-listed:	ENG256/456
Instructor:	Willis, S.

Description:	Fall 2008. Please see ENG 256 for the course description.
Department:	Film and Media Studies
Course:	FMS 247
Title:	Men of Marble, Women of Steel: An Introduction to East European Film
Cross-listed:	GER 285, GER 485
Instructor:	Creech, J.
Description:	Fall 2008. Please see GER 285 for the course description.
Department:	Film and Media Studies
Course:	FMS 252A
Title:	Issues in Film: Family Repression and Rage in Film and Society
Cross-listed:	ENG 265/465/WST265
Instructor:	Bleich, D.
Description:	Fall 2008. Please see ENG 265 for the course description.
Department:	Film and Media Studies
Course:	FMS 253A
Title:	Studies in a Director: The Films of Alfred Hitchcock
Cross-listed:	ENG 264/464
Instructor:	Grella, G.
Description:	Fall 2008. Please see ENG 264 for the course description.
Department:	Film and Media Studies
Course:	FMS 256A
Title:	Our Voyage to Italy
Cross-listed:	IT248/CLT213B
Instructor:	Stocchi-Perucchio, D.
Exams:	midterm exam
Coursework:	Class presentations and short written assignments Term paper (seven to ten pages)
Description:	Fall 2008. Please see IT 248 for the course description.
Department:	Film and Media Studies
Course:	FMS 256M
Title:	Studies in a National Cinema - Chinese Cinemas
Cross-listed:	ENG 262/462
Instructor:	Niu, G.
Description:	Fall 2008. The course examines diasporic Chinese cinemas from the People's Republic of China(PRC), the Republic of China on Taiwan(ROC), Hong Kong(HK), the U.S. and Canada, mostly from the 1980s to the present. We will pay special attention to the migrations of the films and individuals, including actors such as Chow Yun-Fat, Jackie Chan, Tony, leung, and Jet Li, actresses such as Joan Chen, Gong Li, Maggie Cheung, directors such as Ang lee, Zhang Yimou, Jia Zhangke, Wong kar-Wai, and

others. We will cover a wide variety of genres, including epic, martial arts, action, thriller, comedy, and drama. Some experience with film studies, especially world cinema, and Chinese history will be helpful but not required. Weekly outside screenings of films are 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 short and longer writing assignments, class room discussion leading participation, short quizzes. Not open to students who took ENG 267, Topics in Media Studies: Chinese Cinemas, in the Fall of 2004.

Department: Film and Media Studies
Course: FMS 264
Title: Bunuel and Co.
Cross-listed: SP 285 / SP 485 / CLT 219
Instructor: Schaefer, C.
Description: Fall 2008. Please see SP 285 for the course description.

Department: Film and Media Studies
Course: FMS 270
Title: Atomic Creatures: Godzilla
Cross-listed: JPN 214/CLT 214M/414M
Instructor: Bernardi, J.
Description: Fall 2008 Please see JPN 214 for the course description.

Department: Film and Media Studies
Course: FMS 283
Title: History of Japanese Cinema
Cross-listed: JPN 283/CLT 214A/414A /JPN283W
Instructor: Bernardi, J. **Class Size:**
Description: Fall 2008. Please see JPN 283 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

Health & Society

Department: Health & Society
Course: HLS 116
Title: Introduction to Community Medicine
Instructor: Theodore Brown, Kevin Hart
Description: The nature of the American health care system; problems in the health care system; historical background for the development of medicine and health care in this country. Public health programs and their role in maintaining the health of a population.

Department: Health & Society
Course: HLS 216
Title: Peer Health Advocacy I
Instructor: Reynolds, N
Restrictions: Not open to seniors
Description: The Peer Health Advocacy course is designed for students who have a personal interest in individual and community health issues. In this course, students will examine the ways in which alcohol and other drug use, sexual behavior, and stress can impact the lives of college students and the college environment. Through group exercises and presentations, textbook readings, and guest speakers, students will gain a deeper understanding of health issues such as sexually transmitted infections (including HIV/AIDS), pregnancy prevention, sexual assault, and the physical and social effects of alcohol and other drug use. In addition to this content, students will learn practical skills in "conversational leadership," or how to talk with peers about their health behavior without sounding hypocritical or "preachy." The course project will involve the planning, implementation, and evaluation of a campus-based health promotion strategy. A library research paper will provide an additional opportunity to explore a health topic in depth. Students who complete Peer Health Advocacy I (HLS 216) in the fall semester will have the option to continue in the spring with Peer Health Advocacy II (HLS 217) for an additional two credits.

Department: Health & Society
Course: HLS 301
Title: Senior Seminar
Instructor: Harper, D.
Prerequisites: Required course of seniors majoring in health and society.
Restrictions: Open only to senior majors or by permission of instructor
Exams: No exams.

Coursework: Methods of Instruction: Taught as a seminar. Discussion of topics in health and disease; three term papers, no exams

Description: This course will build on prior courses in health and society - focusing in part on those topics that students wish to pursue further. Topics will include the changing health care system of the United States, corruption in the health care industries, medical problems and controversies in health care research and health care delivery (Ug! - sounds like selling cars, but this term is used by many in the health and medical industries). Three or four books will be assigned. Examples: Marcia Angell, the Truth about Drug Companies; David Mechanic, Policy Challenges in Modern Health Care.

History

Department: History

Course: HIS 100

Title: The Ancient World

Instructor: Walsh, D.

Coursework: Course is divided into 4 units relating to the major civilizations with a 4-6 page essay on each section required. Class is both lecture and discussion. Readings are from 2 purchased texts and extensive material on reserve and e-reserve.

Description: The course introduces European history by examining the civilizations of the ancient world: the cultures of Egypt, Mesopotamia, Greece and Rome. We will study multiple aspects of these cultures with a focus on the emergence of the city and its social, political and economic makeup, as seen through a variety of sources from texts and material culture. Students will become aware of the dimension of historiography; that is, how we have come to interpret these peoples today.

Department: History

Course: HIS 103

Title: Cultural History of Ancient Greece **Class Size:** 30

Cross-listed: CLA 102

Description: Please see CLA 102 for the course description.

Department: History

Course: HIS 105

Title: Traditional Japan

Cross-listed: JPN 216

Instructor: Hauser, W. **Class Size:** 30

Exams: Midterm and final take-home examination

Coursework: Each student will write a term paper on a subject they choose dealing with some aspect of traditional Japanese culture or society before 1850.

Description: This lecture course will cover Japanese history from the beginning to around 1850. Emphasis will be on the changing nature of political authority, the changing roles of the aristocrats, samurai warriors, and commoners, the emergence of new cultural forms, and the transformation of traditional Japanese society. Readings will include literature, diaries, political, social, and economic history, and material on Japanese women. Several films will be shown in conjunction with the course. Readings: D. Keene, ANTHOLOGY OF JAPANESE LITERATURE; K. Brazell, Jr. THE CONFESSIONS OF LADY NIJO; G.L. Bernstein, RECREATING JAPANESE WOMEN; abridged versions of THE TALE OF GENJI and TALE OF THE HEIKE, Katsu Kokichi, MUSUT'S STORY and a survey text among others.

Department: History

Course: HIS 106

Title: Colonial and Contemporary Africa

Cross-listed: AAS 106; ANT 248

Instructor: Mandala, E.

Description: This course uses film, literature, and historical studies to understand the transformation of African societies during the colonial era and its neocolonial aftermath. It maps out the forging of new national identities, creation of wage laborers, restructuring of rural communities, and changing power relations between women and men, the young and old. Students will also explore how African men and women, from their homes and workplaces, and as part of nationalist and national liberation movements during and after the Cold War, have sought to redefine their place in the global economy amidst new opportunities and challenges presented by environmental degradation, the HIV/AIDS pandemic, hunger, international debt, and Chinas growing thirst for the continents seemingly inexhaustible natural resources.

Department: History

Course: HIS 108

Title: Traditional China **Class Size:** 20-30

Instructor: Li, G.

Exams: Three quizzes, midterm and final examination.

Coursework: One short paper (5-7 pages) and reading of four books.

Description: This course gives students an overview of pre-modern China from its earliest time to 1600s. The course covers the formation of Chinese civilization from its multiple origins, the canonization of literary texts in a long period, the establishment of the imperial states and their functions, the interaction with groups of people on the borders and its significant effects, the long searching for

the economic settlement in the transitive periods, social chaos and its solutions, and China's splendid ancient cultures. The multiple historical layers of "tradition" require a pluralistic rather than monolithic approach. Tradition's diverse meanings have been not only shaped by the practices of different peoples in a long period history, but also filtered through our contemporary ideological access to the histories we are revisiting.

Department: History
Course: HIS 111
Title: History of Technology
Instructor: Pierce, M.
Description: This course surveys the history of technology and its impacts on agriculture, communication, transportation, housing, health, war and society. The Romans used technology to build an empire, as did Venice, Great Britain, America, and the Soviet Union, but each also discovered the limits of technology. In addition to examination of inventors and inventions, the role of government and society in technological innovation will be examined.

Department: History
Course: HIS 118
Title: History of Christianity
Instructor: Cadorette, C.
Cross-listed: REL 104
Description: Please see REL 104 for the course description.

Department: History
Course: HIS 120
Title: Introduction to Historical Studies
Instructor: Borus, D.
Coursework: Classes will be a combination of lectures, discussions, demonstrations, and student projects.
Description: This course is intended for students new to the study of history at the college level. It will explore what historians do, how they do it, and how students can hone their own skills. Among the topics to be explored are understanding the materials of history, a survey of approaches to the past, and the development of proper techniques.

Department: History
Course: HIS 145
Title: Early America, 1600-1800
Instructor: Jarvis, M.
Description: This course examines European expansion into the New World from Columbus's first voyage through the aftermath of the American Revolution. Throughout the semester, we will situate

colonial British America and the fledgling United States within a broader, contested, multi-national and multi-ethnic Atlantic World setting. We will first regionally survey Europe's American colonies, emphasizing how timing, geography, economic development, national background, and patterns of migration produced considerable variation within colonial societies. We will next topically focus on Euro-Indian encounters, slavery, cultural creolization, religion and warfare in order to compare the experiences of colonial Americans. We conclude by examining the political crises and multi-fronted clashes of American Revolution and the struggle to forge a new, viable nation in its wake.

Department: History
Course: HIS 147
Title: Industrial America, 1865-1929
Instructor: Rubin, J.
Exams: Mid-term and final.
Coursework: Reading and discussion.
Description: This course will explore the social, political, and cultural history of the United States from Reconstruction through 1929. Among the topics of particular focus will be the aftermath of the Civil War, American industrial expansion, the rise of the American city, immigration, World War I, and 1920s culture, developments that have profoundly shaped modern American society and politics. In addition, this course will assist students in developing and sharpening their reading, writing, and analytical skills.

Department: History
Course: HIS 152
Title: Soviet Russia
Cross-listed: RST 154
Instructor: Lenoe, M.
Description: This class examines the history of the Soviet Union from foundation (1917) to collapse (1991), focusing on internal developments in the Russian part of the Union. We will begin with a discussion of the background to the collapse of the imperial Russian state in 1917, including changes in Russian society and World War I. Later, the class will look at questions such as: Did the New Economic Policy of the 1920s create a stable socioeconomic order? How did Stalin defeat his political rivals and create a personal dictatorship? What were the motivations for the Great Terror of 1937-1938? How did the Soviet Union defeat Nazi Germany in World War II? We will also devote some time to the Soviet role in the Cold War and the appeal of Leninism in colonized and post-colonial societies. The course will conclude with a discussion of the collapse of the

USSR and the emergence of a soft authoritarian order in post-Soviet Russia. syllabus will emphasize primary-source readings and class discussion.

Department: History
Course: HIS 153
Title: Russia Now
Cross-listed: RST 127; RUS 127
Instructor: Parthe, K.
Description: Please see RST 127 for the course description.

Department: History
Course: HIS 154
Title: Russia Now
Cross-listed: RST 126; RUS 126
Instructor: Parthe, K.
Description: Please see RST 126 for the course description.

Department: History
Course: HIS 167K
Title: Speaking Stones
Cross-listed: REL 167K
Instructor: Homerin, E.
Description: Please see REL 167K for the course description.

Department: History
Course: HIS 171
Title: Civil Rights in America
Instructor: Wolcott, V. **Class Size:** 40
Description: This course will examine the civil rights movement in twentieth-century America, focusing on the post-1945 period. Following the call to view civil rights from a local perspective, we will study the movement in a variety of locations: from the rural south to the urban north. In addition to examining the nonviolent struggle for integration in the South we will look at activists demands for better housing, jobs, and economic parity nationwide. Rather than viewing the black power movement as separate and divisive we will intertwine the history of black power and self-determination with the history of civil rights activism. Although the course will focus on the post-World War II period, we will discuss the roots of the movement in early twentieth-century struggles for justice.

Department: History
Course: HIS 197Q
Title: Religion and Society in Modern Europe (19th - 20th Century)
Cross-listed: REL 193Q

Instructor: Bakhmetyeva, T.
Restrictions: Permission of instructor required
Description: This course explores the historical roots of many modern problems (such as anti-semitism, gender inequality, religious violence) by looking at how religion as a political force participated in shaping the modern world. Topics of interest include the war against religion in the 18th century; religious revival of the 19th century; popular religion as a reaction to social and political transformations (apparitions, pilgrimages); religion, class and gender; religion in totalitarian regimes; religion and national identity. The course will look at various branches of Christianity (primarily Catholicism and Orthodoxy) as well as non-Christian religions.

Department: History
Course: HIS 198Q
Title: The History of the Book in the West
Instructor: Alvarez, P. **Class Size:** 10
Restrictions: Special application required
Coursework: Readings, class participation, midterm exam, and 1 research paper.
Description: Discover the treasures in the Rush Rhees Library's Rare Book and Manuscript Collection and learn how to analyze them in their historical context. Students study how to "read" the format and design of medieval manuscripts and later publications as well as how print affected European politics and society, particularly during the first three centuries after Gutenberg. Every class meeting involves a hand-on experience with materials from the Department of Rare Books, Special Collections and Preservation.

Department: History
Course: HIS 203
Title: Economies & Societies in Latin America & the Caribbean since 1492
Cross-listed: AAS 252; ECO 252
Instructor: Inikori, J. **Class Size:** 30
Exams: Midterm, Final.
Description: The main thrust of the course is an attempt to provide a historical explanation for the general problem of material poverty and the attendant socio-political crises that characterize contemporary Latin America and the Caribbean. The course begins with an examination of the organization of the economies and societies in the region on the eve of the European conquest, and the factors determining the level of development attained by this time. This is followed by a discussion of the socio-economic processes during the colonial period. The post-colonial period (which differs from one country to another) is examined in the context of

the inherited socio-economic structures of the colonial period and the changing conditions in the evolving modern global system.

Department: History
Course: HIS 204
Title: Introduction to Law - History of Federal Indian Law
Instructor: Boylan, L.
Prerequisites: Background in 100-level courses in American or American Indian history is recommended but not required.
Coursework: Students will be expected to read from primary and secondary sources, including treaties, statutes and case law, and to participate with oral presentations and writings.
Description: This seminar course is intended as an introduction to legal studying, reasoning and writing with the field of American Indian law being the focus. We will look at the impact of American law upon Indian tribes and individuals, and touch upon how Native American legal concepts intersect white man's law.

Department: History
Course: HIS 211
Title: History from Myth - King Arthur and Robin Hood
Instructor: Kaeuper, R. **Class Size:** 20
Exams: Comprehensive Essay Final Exam.
Coursework: Two essays during the term; at least 200 pages of reading per week.
Description: King Arthur and Robin Hood, though so popular a feature of our culture that we almost take them as 'givens,' in fact we pay serious study about them. Medieval stories can inform us about kingship, ideas of chivalry, socio-economic functioning of early legal systems. This course looks at such early stories within the contact of their historical periods.

Department: History
Course: HIS 213
Title: Roman World
Cross-listed: CLA 210
Instructor: Davison, M.
Description: Please see CLA 210 for the course description.

Department: History
Course: HIS 215
Title: The Enlightenment
Instructor: Outram, D.
Restrictions: Not open to freshmen
Description: The 18th century saw the exploration of the remotest corners of the earth, the enslavement of millions of Africans, and continual questioning of religion, gender and sexuality. This course on the

Enlightenment, or movement of ideas in this period, covers the thought generated by these global events and enquiries into the nature of humanity.

Department: History
Course: HIS 221
Title: Our Voyage to Italy
Cross-listed: CLT 213B; FMS 256A; IT 248
Instructor: Stocchi-Perucchio, D.
Description: Please see IT 248 for the course description.

Department: History
Course: HIS 228
Title: In Arezzo (Study Abroad) - Modern Italy 1815-1948
Cross-listed: CLT 207C; IT 228
Instructor: Conti, G.
Description: Please see IT 228 for the course description.

Department: History
Course: HIS 240
Title: Comparative Modern Revolutions - France, Japan, Mexico, Russia
Cross-listed: HIS 240W
Instructor: Lenoe, M.
Coursework: Most of class time will be spent in discussion of readings. Most graded work will be in the form of essays.
Description: In this class we will compare the French Revolution (1789-1815), the Japanese Meiji Revolution (usually called in English "the Restoration") of 1868-1890, the Mexican Revolution (1910-1924), and the Russian Revolution (1917-1937). We will examine such questions as: To what extent did particular social groups drive each of these revolutions? To what extent did each of these revolutions begin with a simple collapse of the state? Were new ideologies/ideas important in bringing on each revolution? How important were efforts "from below" and "from above" (i.e. by established elites and/or new state apparatuses) in determining the outcome of each revolution? Do modern revolutions tend to follow a common course, as Crane Brinton has argued, or are they 'sui generis'?

Department: History
Course: HIS 240W
Title: Comparative Modern Revolutions - France, Japan, Mexico, Russia
Cross-listed: HIS 240
Instructor: Lenoe, M.
Description: Please see HIS 240 for the course description.

Department: History
Course: HIS 243
Title: Dangerous Texts - Literature and Politics in Russia
Cross-listed: HIS 243W; JST 249; RST 247/W; RUS 247/W
Instructor: Parthe, K.
Description: Please see RUS 247 for the course description.

Department: History
Course: HIS 243W
Title: Dangerous Texts - Literature and Politics in Russia
Cross-listed: HIS 243; JST 249; RST 247/W; RUS 247/W
Instructor: Parthe, K.
Description: Please see RUS 247 for the course description.

Department: History
Course: HIS 247
Title: Lincoln, Douglass, and Black Freedom
Cross-listed: AAS 257; HIS 247W
Instructor: Hudson, L.
Description: In what was probably the world's greatest century, marked by several national and international struggles for human freedom, two men stand head and shoulders above the many great men and women who participated in a civil war for American freedom: Abraham Lincoln and Frederick Douglass. At first glance, these two men had little in common; one born free on the American frontier, the other unfree in the heartland of slavery. Yet they had much in common; both largely self-educated, they both attained a mastery for words and the ability to communicate simply and directly with their fellow man. As if born to fight in one major battle for human freedom, these two men traveled diverse roads to meet on a momentous battlefield: black freedom and the future of America. Utilizing a wide range of sometimes opposing tactics, each in his own way shaped 19th century Americans understanding of what it meant to be free and a citizen.

Department: History
Course: HIS 247W
Title: Lincoln, Douglass, and Black Freedom
Cross-listed: AAS 257; HIS 247
Instructor: Hudson, L.
Description: Please see HIS 247 for the course description.

Department: History
Course: HIS 255
Title: Economic and Social Conditions of African-Americans in the 20th Century

Cross-listed: AAS 253; ECO 253W
Instructor: Engerman, S.
Description: Please see ECO 253W for the course description.

Department: History
Course: HIS 258
Title: History of Race in America
Cross-listed: AAS 256
Instructor: Hudson, L.
Description: We will identify and discuss the salient moments in the nation's history when race functioned as an organizing principle in the construction of American public and private institutions. Course readings will examine the historical background of current debates on issues such as Affirmative Action, Diversity, Multiculturalism, Educational Testing, Reparations, the Media, and Political Party Re-alignment.

Department: History
Course: HIS 265
Title: Baseball in American Life
Instructor: Borus, D.
Prerequisites: HIS 147 or HIS 148
Coursework: Four 5-page papers with reading of approximately 150 pages a week.
Description: This course addresses the role baseball has played in American life, focusing both on how Americans have regarded the game and how the game itself has adapted to and reflected broader developments in American life. Among the topics investigated will be the role of play in American culture, baseball and national identity, baseball and race, and baseball as a business.

Department: History
Course: HIS 267
Title: American Thought, 1600-1865
Instructor: Westbrook, R.
Coursework: Weekly comments, a short paper (1500 words), a take-home midterm examination, and two take-home hour examinations
Description: This course is a survey of leading American ideas about God, nature, the self, society, and politics from the beginning of the seventeenth century through the mid- nineteenth century. Topics include Puritanism, the American enlightenment, the ideology of the American revolution, the ascendancy of evangelical Protestantism, American romanticism, pro- and anti-slavery thought, and the cultural crisis of the Civil War. Readings from Jonathan Edwards, Benjamin Franklin, Thomas Jefferson, James Madison, Frederick Douglass, Abraham Lincoln, and others.

Department: History
Course: HIS 274
Title: Guns, War, and Revolution in Southern Africa
Cross-listed: AAS 274, HIS 274W
Instructor: Mandala, E.
Description: This course explores the conditions that created the guerilla movements, the way the rebels and government forces clashed in the air, cities, and jungles, and how the struggles reshaped the history of the region and its position in the global economy before and after the Cold War.

Department: History
Course: HIS 274W
Title: Guns, War, and Revolution in Southern Africa
Cross-listed: AAS 274; HIS 274
Instructor: Mandala, E.
Description: Please see HIS 274 for the course description.

Department: History
Course: HIS 277
Title: The Culture of Zen
Cross-listed: AH 233;CLT 264A/464A;JPN 233;REL 283
Instructor: Pollack, D.
Description: Please see JPN 253 for the course description.

Department: History
Course: HIS 282
Title: The Samurai
Cross-listed: HIS 282W
Instructor: Hauser, W.
Coursework: Students will be expected to attend all classes, participate in class discussions, and write three, 5-8 page papers on assigned readings and films. For upper-level writing credit, students must revise the first two papers and resubmit them
Description: "The Samurai" will examine the emergence of the warrior class in the 10th and 11th centuries, its evolution from rustic warriors to medieval military power holders, and military bureaucratic administrators. The class will include readings on the history, literature, philosophy, and religion of the samurai class. Films treating the popular imagery of the samurai will be projected in class. Various representations of the samurai will be compared and contrasted.

Department: History
Course: HIS 282W
Title: The Samurai
Cross-listed: HIS 282

Instructor: Hauser, W.
Description: Please see HIS 282 for the course description

Department: History
Course: HIS 283
Title: Mao Zedong and the Chinese Revolution
Instructor: Li, G.
Coursework: Two short book reports and a major research paper.
Description: This course examines the global and local contexts where Chinese radicalism emerged in the early 20th century, the close relationships between the national revolution (nationalism) and anti-colonialism/anti-imperialism, Mao's multiple intellectual resources in his early years, Mao's creation of an unique Chinese way to revolution, the contradiction between Mao's radical lines and the cautious nation-state building projects, a set of dazzling historical events powered by this contradiction the Anti-Rightist Campaign, Great Leap Forward, and the Great Proletarian Cultural Revolution, and finally Mao's far-reaching influence and legacy in contemporary China. On the one hand, this course aims at confirming Mao's important role in the Chinese revolution; on the other hand, the course attempts to unpack the multiple meanings centered on Mao by providing a wider context of Chinese radicalism and the complex trajectory of the Chinese revolution.

Department: History
Course: HIS 301W
Title: Research in American History
Instructor: Wolcott, V.
Restrictions: Permission of instructor required
Coursework: 20-page research paper.
Description: In this upper-level seminar students will research and write a 5,000-word paper on a topic of their choosing. Students will work individually with the professor to develop a topic, plan research, and draft their paper. In addition, students will meet several times as a class to discuss methodology and engage in peer review.

Department: History
Course: HIS 301W
Title: Research in European and World History
Instructor: Weaver, S.
Restrictions: Permission of instructor required
Coursework: 20-page research paper.
Description: In this upper-level seminar students will research and write a 5,000-word paper on a topic of their choosing. Students will work individually with the professor to develop a topic, plan research,

and draft their paper. In addition, students will meet several times as a class to discuss methodology and engage in peer review.

Department: History
Course: HIS 305W
Title: American Health Policy and Politics
Cross-listed: HIS 405; 7PM 420
Instructor: Brown, T.
Restrictions: Permission of instructor required
Coursework: Weekly seminar discussion. One 5-page analytical paper and one 20-page research paper required.
Description: This course examines the formation and evolution of American health policy from a political and historical perspective. Concentrating primarily on developments from 1932 to the mid-1990s, readings and seminar discussions focus on political forces and institutions and on historical and cultural contexts. Among the topics covered are periodic campaigns for national health insurance, efforts to rationalize and regionalize health care institutions, the creation of Medicare and Medicaid and the further evolution of these programs, the rise of dominance of economists and economic analysis in the shaping of health policy, incremental and state-based vs. universal and federal initiatives, and the formation and failure of the Clinton administration's health reform agenda.

Department: History
Course: HIS 308W
Title: Modernity and Modernism - Nietzsche and His Children
Cross-listed: HIS 408
Instructor: Westbrook, R.
Coursework: Two short papers (1,000-1,500 words) and one longer paper (4,000-5,000 words).
Description: A study of selected topics in the history of modern thought and culture in Europe and the United States. Topic for Fall 2008: Nietzsche and His Children. Investigation of the major themes, texts, and contexts of the thought of Friedrich Nietzsche (1844-1900), and its subsequent reception and influence in Germany, France, and the United States.

Department: History
Course: HIS 333W
Title: U.S. Colloquium I
Cross-listed: HIS 433
Instructor: Jarvis, M.
Restrictions: Permission of Department required
Description: This seminar surveys the historiography of colonial and Antebellum America, stressing the ways in which scholarly

interpretations of topics and events in these periods have changed over the last century. Through reading a blend of classic works and recent studies, we will explore the history of pre-1865 history by examining changing research questions, theory, philosophy and methodology.

Department: History
Course: HIS 350W
Title: Topics in Medieval History - Europe in 1215
Cross-listed: HIS 450
Instructor: Kaeuper, R.
Prerequisites: Several courses in medieval history.
Restrictions: Permission of instructor required for undergraduates
Description: Three significant aspects of thirteenth-century European civilization are explored: the Fourth Lateran Council of the church, the Magna Carta in England, and the beginning of writing of the Vulgate Cycle of Arthurian Romance. This set of issues gives multiple insights into ideas of reform in Church and lay governance, and socio-cultural ideas of chivalry and much more through literature.

Department: History
Course: HIS 356W
Title: The Atlantic Slave Trade and Africa, 1650-1850
Cross-listed: AAS 375W; ECO 385W; HIS 456
Instructor: Inikori, J.
Exams: No mid-term, no final exam
Coursework: Weekly literature summaries, three three-page conference papers, and one book review
Description: By the middle decades of the nineteenth century a highly integrated economic system, appropriately called the Atlantic Economic Order, had emerged, linking together through a web of multilateral trade the economies of the Atlantic basin that had remained unconnected in the late fifteenth century. The economies of Africa occupied the lowest position within this mid-nineteenth century economic order. The course examines the extent to which the Trans- Atlantic Slave Trade could help explain this weak position of the African economies. The course begins with a general view of the level of socioeconomic development in Africa by the late fifteenth century, relative to that of other regions in the Atlantic basin. It proceeds to examine the impact of the Atlantic slave trade on the competitive development of commodity production in Africa for the evolving Atlantic market of the period, as well as the socioeconomic and political consequences of the export slave trade within Africa. One major theme of the course is the extent to which the Trans-

Atlantic Slave Trade limited the development of capitalism in Africa during the period in question.

Department: History
Course: HIS 396W
Title: Film and History Tutorial - American Politics
Instructor: Westbrook, R.
Restrictions: Permission of instructor required
Description: 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 understanding. That is, we will assess the insights that movies can offer into the moment of their making as well as the promise and 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 405
Title: American Health Policy and Politics
Cross-listed: HIS 305W; 7PM 420
Instructor: Brown, T.
Description: Please see HIS 305W for the course description.

Department: History
Course: HIS 408
Title: Modernity and Modernism - Nietzsche and His Children
Cross-listed: HIS 308W
Instructor: Westbrook, R.
Description: Please see HIS 308W for the course description.

Department: History
Course: HIS 433
Title: U.S. Colloquium I
Cross-listed: HIS 333W
Instructor: Jarvis, M.
Description: Please see HIS 333W for the course description.

Department: History

Course: HIS 450
Title: Topics in Medieval History - Europe in 1215
Cross-listed: HIS 350W
Instructor: Kaeuper, R.
Description: Please see HIS 350W for the course description.

Department: History
Course: HIS 456
Title: The Atlantic Slave Trade and Africa, 1650-1850
Cross-listed: AAS 375W; ECO 385W; HIS 356W
Instructor: Inikori, J.
Description: Please see HIS 356W for the course description.

Department: History
Course: HIS 500
Title: Problems in Historical Analysis
Instructor: Outram, D.
Coursework: Students will write reports in rotation on the assigned topics and deliver them orally, and will write a final paper on a theme arising from those discussed in the course.
Description: This course is required of incoming graduate students in their first semester in the Department of History. It aims to introduce graduate students about to make a commitment to historical study to major questions in the field, and to the history of the profession. The course is envisaged as a reading and discussion seminar.

Judaic Studies

Department: Judaic Studies
Course: JST 101
Title: Elementary Hebrew I
Cross-listed: HEB 101
Description: Introduction to the structure of Hebrew. Practice in vocabulary, use, reading and comprehension. Same as HEB 101

Department: Judaic Studies
Course: JST 103
Title: Intermediate Hebrew
Cross-listed: HEB 103
Description: Continuation of Hebrew 102 with emphasis on enhancing reading comprehension, writing and speaking skills. Several writing assignments. Same as HEB 103 (Fall)

Department: Judaic Studies
Course: JST 106
Title: Intro to Hebrew Bible

Cross-listed: Rel 101
Instructor: A. Meredith
Coursework: Please see Rel 101
Description: Please see Rel 101

Department: Judaic Studies
Course: JST 203
Title: History of Judaism
Cross-listed: Rel 103
Instructor: Rubel, N.
Description: Please see REL 103 for the course description.

Department: Judaic Studies
Course: JST 217
Title: Judaism and Its Music
Cross-listed: REL 217/MUR 139
Instructor: Goldberg, G.
Description: Please see REL 217 for the course description.

Department: Judaic Studies
Course: JST 249
Title: Secret Nation
Cross-listed: RUS 247, RST 247, HIS 288
Instructor: Parthe, K.
Description: Please see RUS 247 for the course description.

Linguistics

Department: Linguistics
Course: LIN 101
Title: People and Their Language
Instructor: Webb, B
Exams: Midterm, Final
Coursework: Weekly readings and assignments, term project.
Description: This introductory level course is designed for students who have no background in linguistics, with some new topics for students who do. The course addresses the basic question "What is Language?" from a broad variety of perspectives including linguistics, sociolinguistics, historical linguistics, sign language linguistics and gesture study. We will consider questions such as: What elements are found in all human languages? Are they systematically organized or random? Are some languages/dialects better than others? What is the relationship between written and spoken language? How does manual gesture relate to spoken language, and to sign language? How do languages develop? Die? How are they related? In exploring these questions we will confront a variety of common misperceptions about language.

Each lecture has reading assignments drawn from the textbook and published articles. Class discussion will be encouraged as much as possible. Part of Clusters S1LIN006, S1LIN002

Department: Linguistics
Course: LIN 106
Title: Linguistics and Law
Instructor: Gunlogson, C. **Class Size:** 30
Prerequisites: None
Description: This course offers a critical examination of how linguistic analysis figures in legal issues and practices, a growing field known as forensic linguistics. Topics include speaker identification, the use of questions in eliciting testimony, translation and interpretation in the courtroom, and legal language. Emphasis is on understanding and assessing linguistic argumentation and how it is applied (and sometimes misrepresented and misapplied) in the domain of law. Part of Clusters S1LIN002, S1LIN006

Department: Linguistics
Course: LIN 110
Title: Introduction to Linguistic Analysis
Cross-listed: ANT 110C
Instructor: Paauw, S. **Class Size:** 30
Prerequisites: None
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: Linguistics
Course: LIN 110
Title: Introduction to Linguistic Analysis
Instructor: Runner, J **Class Size:** 30
Prerequisites: None
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.

Department: Linguistics
Course: LIN 210
Title: Introduction to Language Sound Systems
Cross-listed: LIN 410
Instructor: McDonough, J. **Class Size:** 30
Prerequisites: LIN 110 or permission of instructor
Coursework: Weekly homeworks, final project and problem set.
Description: Introduces students to the principles underlying sound systems in human language. Attention will be given to articulatory phonetics, with some discussion of acoustic phonetics; practice in the production, recognition, and transcription of sounds in various languages of the world, and to the fundamentals of phonological analysis and argumentation through hands-on investigation of language sound systems. Part of Clusters S1LIN004, S1LIN002, S1LIN001

Department: Linguistics
Course: LIN 225
Title: Introduction to Semantic Analysis
Cross-listed: LIN 425
Instructor: Carlson, G **Class Size:** 30
Description: This course introduces students to the basic logical notation and techniques used in formal analysis of natural language meaning, primarily in terms of truth-conditions. We will discuss the basics of first-order logic and set theory, and begin to investigate how meanings represented in these terms correlate with the syntactic and lexical structures of sentences of natural language. Topics include such notions as negation, conjunction and disjunction, plurality, quantification, indexicality, entailment, implicature, and presupposition. Students of graduate standing or those with strong formal backgrounds should consider starting with LIN 265/465 instead, for which this course is ordinarily prerequisite. This course counts towards satisfying the core course requirement for majors. Part of Clusters S1LIN002, S1LIN004, L1LIN005

Department: Linguistics
Course: LIN 226
Title: Morphology
Cross-listed: LIN 426
Instructor: Paauw, S. **Class Size:** 30
Restrictions: See course description for specific prerequisites required
Description: The course examines the structure and definition of the linguistic unit "word" its typology and the relationship of the morphological component to other levels in the grammar. The course includes an introduction to analytical techniques with

emphasis placed on an examination of data from a range of languages. The building blocks of words will be analyzed and topics such as affixation, reduplication and inflectional and derivational morphology will be covered. We will examine the properties of words and how they fit into the larger structure of linguistic knowledge, including the relationship between words and syntactic structure (ex., phrases and sentences) and the relationship between words and phonological structure (ex., phonological rules and prosodic structure).

Department: Linguistics
Course: LIN 260
Title: Syntactic Theory
Cross-listed: LIN 460
Instructor: Runner, J. **Class Size:** 25
Prerequisites: LIN 220
Exams: Two equally weighted take-home exams.
Coursework: Approximately one written or reading assign per week
Description: This course picks up where LIN 220 leaves off, exploring topics in natural language syntax from a cross-linguistic perspective. The goal of the course is an approach to syntax that accounts for both language-particular as well as universal constraints on language. Among the topics to be studied are: phrase structure, constraints on coreference (binding), thematic roles, long- and short-distance dependencies (extraction and NP movement), constraints on unexpressed phrases (trace and control theory), and quantifier scope (Logical Form). Part of Cluster S1LIN007

Department: Linguistics
Course: LIN 410
Title: Introduction to Language Sound Systems
Cross-listed: LIN 210P
Instructor: McDonough, J. **Class Size:** 30
Description: See LIN 210 for description

Department: Linguistics
Course: LIN 425
Title: Intro To Semantics Analysis
Cross-listed: LIN 225
Instructor: Carlson ,G **Class Size:** 30
Description: See LIN 225 Description

Department: Linguistics
Course: LIN 426
Title: Morphology
Cross-listed: LIN 226
Instructor: Paauw, S **Class Size:** 30

Description:	Please see LIN 226 for the course description.
Department:	Linguistics
Course:	LIN 460
Title:	Syntactic Theory
Cross-listed:	LIN 260
Instructor:	Runner, J.
Prerequisites:	LIN 420
Exams:	Two equally weighted take-home exams.
Coursework:	Approximately one written or reading assignment per week.
Description:	Refer to LIN 260 for course description.
Department:	Linguistics
Course:	LIN 501
Title:	Methods in Linguistics Research
Instructor:	Carlson, G.
Description:	An introduction to the field of linguistics and natural language emphasizing a theoretical perspective. Topics will cover subfields of linguistics, including phonetics, phonology, morphology, syntax, semantics and pragmatics.

Mathematics

Department:	Mathematics
Course:	MTH 140A
Title:	Calculus With Foundations
Exams:	Two or three hourly exams and weekly quizzes.
Description:	A two-semester course integrating the learning of calculus with precalculus mathematics. It is intended for students who lack the algebra and trigonometry skills necessary to perform successfully in MTH 141. When followed by MTH 141A, MTH 140A and MTH 141A together will cover all the material in MTH 141, together with a thorough presentation of the standard 'precalculus' material. When taken alone, MTH 140A covers, in addition to precalculus material, the theory and techniques of differential calculus, but no material on the integral calculus.
Department:	Mathematics
Course:	MTH 141
Title:	Calculus I
Coursework:	Homework and quizzes
Description:	Analysis of the elementary real functions: algebraic, trigonometric, exponentials and their inverses 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. MTH 141, 142, and 143 is a three semester sequence that covers, at a slower

pace, exactly the same material as the two semester sequence MTH 161 and 162.

Department:	Mathematics
Course:	MTH 142
Title:	Calculus II
Prerequisites:	MTH 141
Exams:	Hourly exams and a final exam
Coursework:	Homework and quizzes
Description:	This course will consist of applications of the finite integrals, techniques of integration, calculus of the transcendental functions, improper integrals and the use of l'Hopital's rule.

Department:	Mathematics
Course:	MTH 143
Title:	Calculus III
Prerequisites:	MTH 141, MTH 142
Exams:	Hourly exams and a final exam
Coursework:	Homework and quizzes
Description:	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:	Mathematics
Course:	MTH 150
Title:	Discrete Mathematics
Description:	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:	Mathematics
Course:	MTH 150A
Title:	Discrete Math Module for 171Q
Restrictions:	Permission of instructor required
Exams:	Final exam
Coursework:	WeBWork and online notes. Students may attend any lectures, recitations, or office hours available to MTH 150 students, but it is entirely optional for them to do so. (See MTH 150 for course time.) Grading will be Pass/Fail only.
Description:	Passing the course will grant a waiver to the MTH 150 requirement for the Computer Science program, but does not fulfill any other requirements that MTH 150 might fulfill.

Department: Mathematics
Course: MTH 161
Title: Calculus IA
Exams: Two or three hourly exams and a final exam
Coursework: Lectures with assignments or problems to be discussed in weekly recitation sections. Quizzes given in recitations.
Description: 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: Mathematics
Course: MTH 161Q
Title: Quest Calculus IA
Prerequisites: None.
Coursework: Homework includes more challenging and occasionally more theoretical problems.
Description: This is the first semester of the Quest version of MTH 161-162 which places emphasis on understanding concepts as well as on learning techniques. Students contemplating majoring in mathematics as well as others desiring a strong foundation in calculus are encouraged to take this course or the honors sequence. 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 that 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, providing guarantees that the techniques always work. Topics covered: Analysis of the elementary real functions: algebraic, trigonometric, exponentials and their inverses 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 162
Title: Calculus IIA

Prerequisites: MTH 161
Exams: Hourly exams, final exam
Coursework: Homework and quizzes
Description: 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
Prerequisites: Quest Calculus IA
Exams: Two or three exams and a final
Restrictions: Open to freshman only
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: Ordinary Differential Equations
Prerequisites: MTH 143, MTH 162 or MTH 172.
Exams: Two or three hourly exams and a final
Coursework: Homework and weekly quizzes
Description: 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: Mathematics
Course: MTH 164
Title: Multidimensional Calculus
Prerequisites: MTH 143, MTH 162, or MTH 172.
Exams: Two or three hourly exams and a final exam
Coursework: Lectures, homework and quizzes
Description: 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: Mathematics
Course: MTH 165
Title: Linear Algebra with Differential Equations
Prerequisites: MTH 143, 162, or MTH 172Q. However, MTH 164 is not a prerequisite for MTH 165.
Exams: Two or three hourly exams and a final
Description: 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 171Q

Title: Honors Calculus I
Exams: Hourly exams and a final.
Description: Students with strong mathematical ability should consider taking this sequence, which is an honors calculus sequence for talented students interested in mathematics. These courses teach calculus as an interesting subject in its own right and places an emphasis on theoretical understanding, as well as on mastering technical skills. Students completing this sequence successfully will earn 20 credits (5 credits per semester) and will have covered the material in MTH235. In addition it is possible to receive 4 credits for AP courses. Students completing the sequence will have completed all of the foundation requirements for a major or minor in mathematics. It is possible to switch from MTH171 sequence to the MTH161 sequence anytime in the first year without much trouble. It would be unusual to transfer from the MTH161 sequence to the MTH171 sequence.

Department: Mathematics
Course: MTH 173Q
Title: Honors Calculus III
Prerequisites: MTH 162
Description: Elementary methods; linear equations of first order; linear equations and systems of higher order with constant coefficients. Oscillation theorems. Solutions in series, special functions; the Laplace transforms, existence and uniqueness theorems.

Department: Mathematics
Course: MTH 190
Title: Topics in Problem Solving
Description: This course is intended for students interested in developing problem solving skills in Mathematics. This course will also prepare the students for college-level mathematical competitions (e.g. Putnam).

Department: Mathematics
Course: MTH 201
Title: Introduction to Probability
Prerequisites: MTH 162 or equivalent, MTH 164 recommended. Same as STT 201.
Description: This course is an introduction to probability theory. The following topics are discussed: probability spaces; combinatorial problems; random variables and expectations; discrete and continuous distributions; generating functions; independence and dependence; binomial, normal, and Poisson laws; laws of large numbers. Required by Electrical and Computer Engineering majors.

Department:	Mathematics
Course:	MTH 208
Title:	Operation Research
Description:	This course is an introduction to operations research. The following topics are discussed: linear programming, simplex method, duality theory, sensitivity analysis, transportation problem, assignment problem, Karmakar's algorithm, genetic algorithms, game theory, networks.
Department:	Mathematics
Course:	MTH 210
Title:	Introduction to Financial Mathematics
Prerequisites:	MTH 201 or ECO 230
Description:	An introduction to some of the mathematical concepts and techniques underlying finance theory. The main financial applications will be to arbitrage pricing theory and option pricing.
Department:	Mathematics
Course:	MTH 217
Title:	Mathematical Modeling in Political Science
Description:	Elementary game theory applications (Nash Equilibria, Prisoner's Dilemma, Chicken); measures of voting power; social choice (Arrow's Theorem), conflict escalation.
Department:	Mathematics
Course:	MTH 233
Title:	Introduction to Cryptography
Description:	Divisibility, primes, congruences, pseudo-primes. Classical, public-key, and knapsack ciphers. Other topics in number theory and applications in computer sciences as time permits.
Department:	Mathematics
Course:	MTH 235
Title:	Linear Algebra
Prerequisites:	MTH 165
Description:	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 \mathbb{R} (real numbers) and \mathbb{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:	Mathematics
Course:	MTH 237
Title:	Intro to Algebra II
Prerequisites:	MTH 236

Description: MTH 237 is a continuation of MTH 236, group theory. Topics include commutative rings, principal ideal domains, and algebraic extension fields. Any one considering graduate work in mathematics should know this material. If time permits, the course will give proofs using field theory of the unsolvability of the classical problems of "trisecting angles", "doubling the cube", "squaring the circle", and "solving 5th degree polynomials".

Department: Mathematics
Course: MTH 255
Title: Differential Geometry I
Prerequisites: MTH 164 and MTH 235, or MTH 174
Description: This course builds on MTH 164 to describe calculus on curves, surfaces, and higher-dimensional manifolds. It provides useful tools for theoretical physics (in particular relativity theory) and the theory of hydrodynamics. It is also a useful basis for computer graphics. Topics covered include inverse and implicit function theorems; submanifolds of Euclidean spaces in nonparametric, parametric and implicit forms; differential forms and calculus on manifolds.

Department: Mathematics
Course: MTH 263
Title: Ordinary Differential Equations II
Prerequisites: MTH 163 or MTH 173 and MTH 235, or consent of the instructor.
Description: Differential equations arise in many situations where one wishes to make a mathematical model. Mostly, the equation cannot be solved analytically. This course develops some of the methods used to extract "qualitative" information about the behavior of solutions. It draws on linear algebra to a great degree and may help motivate some of the features of that subject.

Department: Mathematics
Course: MTH 265
Title: Functions of a Real Variable I
Prerequisites: MTH 163 and MTH 164 or 174, or equivalent.
Description: This course will provide a rigorous introduction to the study of functions of a real variable. Topics include uniform continuity, mean value theorems, convergence theorems, and integration. Students will be expected to prove theorems and give mathematically rigorous arguments.

Department: Mathematics
Course: MTH 265H
Title: Functions of a Real Variable I (Honors)
Prerequisites: MTH 163 or MTH 164 or MTH 174.

Description:	Honors version of MTH 265.
Department:	Mathematics
Course:	MTH 280
Title:	Introduction to Numerical Analysis
Cross-listed:	STT 280
Prerequisites:	MTH 162 or equivalent
Description:	The numerical solution to mathematical problems by computer. Linear systems, approximation, integration, and differential equations. Floating point arithmetic and consequent pitfalls of computation.
Department:	Mathematics
Course:	MTH 281
Title:	Introduction to Fourier Analysis
Cross-listed:	ME 201
Prerequisites:	(MTH 163 or MTH 173)and (MTH 164 or MTH 174). Equivalent to ME 201.
Description:	Fourier Series and convergent theorems. Orthogonal polynomials. Applications to partial differential equations. Fourier transforms.
Department:	Mathematics
Course:	MTH 436
Title:	Algebra I
Prerequisites:	MTH 237
Restrictions:	Permission of instructor required for undergraduates
Description:	Rings and modules, group theory, Galois theory.
Department:	Mathematics
Course:	MTH 440
Title:	General Topology I
Prerequisites:	MTH 265
Restrictions:	Permission of instructor required for undergraduates
Description:	Continuity. Compactness, connectedness, metrizability. Product spaces.
Department:	Mathematics
Course:	MTH 453
Title:	Differentiable Manifolds
Prerequisites:	MTH 266 or equivalent
Restrictions:	Permission of instructor required for undergraduates
Description:	An introduction to the theory of differentiable manifolds. Manifolds and submanifolds, tangent spaces and bundles, vector and sphere bundles, vector fields, differential forms, tensors, and homogeneous spaces.

Department:	Mathematics
Course:	MTH 467
Title:	Theory of Analytic Functions I
Prerequisites:	MTH 265 or equivalent
Restrictions:	Permission of instructor required for undergraduates
Description:	Cauchy theorems, Taylor and Laurent series, residues, conformal mapping, analytic continuation, product theorems.

Department:	Mathematics
Course:	MTH 472
Title:	Functional Analysis I
Prerequisites:	MTH 471
Restrictions:	Permission of instructor required for undergraduates
Description:	Banach spaces. Dual spaces. Riesz theorem. Hilbert space. Fourier series. Projective and unitary operators. Spectral analysis of completely continuous self-adjoint operators. Applications.

Modern Languages & Cultures -- Chinese

Department:	Modern Languages & Cultures -- Chinese
Course:	CHI 101
Title:	Elementary Chinese I
Instructor:	Yu, S.
Description:	This 6-credit course is designed for beginners of Chinese. It introduces to students the sounds, basic sentence structures and the writing system of Mandarin Chinese. Pinyin, the phonetic translation system is taught and required throughout the course. Emphasis will be on developing listening and speaking skills as well as building a vocabulary based on 400 ideographic characters. Course work includes 3 weekly recitation sessions.

Department:	Modern Languages & Cultures -- Chinese
Course:	CHI 114
Title:	Conversational Chinese
Instructor:	Yu, S. Class Size: 15
Prerequisites:	CHI 102 or equivalent, 1200 characters.
Description:	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.

Department:	Modern Languages & Cultures -- Chinese
Course:	CHI 151
Title:	Intermediate Chinese I
Instructor:	Yu, S. Class Size: 20
Prerequisites:	CHI 102 or permission of instructor, 800 characters.

Description: This 6 credit course is the continuation of CHI 102. Knowledge of the Pinyin system is required for the purpose of pronunciation. The course continues to focus on developing communicating skills with an increasing emphasis on reading and writing in ideographic characters and expanding vocabulary. Course work includes 3 weekly recitation sessions. It aims to build a vocabulary based on 1200 characters.

Department: Modern Languages & Cultures -- Chinese
Course: CHI 202
Title: Advanced Intermediate Chinese
Instructor: Yu, S.
Prerequisites: CHI 152 or equivalent, 1600 characters.
Description: This 4 credit course covers various aspects of contemporary Chinese culture as found in magazines, journals, television, film and videos. Class taught in Chinese.

Department: Modern Languages & Cultures -- Chinese
Course: CHI 232
Title: Asian Calligraphy: Structure
Cross-listed: JPN 232
Instructor: Spence, Y. **Class Size:** 20
Description: Please see JPN 232 for the course description.

Modern Languages & Cultures - Comparative Literature

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 113Q
Title: Tolstoy's War & Peace
Cross-listed: RUS 190Q/RST 190Q, RST 235/235W, RUS 235
Instructor: Givens, J.
Description: Please see RUS 190Q for the course description.

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 116Q
Title: Dante's Divine Comedy I, Inferno and Purgatorio
Cross-listed: IT 195Q, 220/REL 197Q, 285/CLT 253C/ENG
Instructor: Stocchi-Perucchio, D.
Description: See IT 220 for the course description.

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 206
Title: Cross-Readings: Cultures of Spain and Latin America
Cross-listed: SP 275, SP 475, CLT 475
Description: Please see SP 275 for description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 207B
Title: In Arezzo - Italy: A Cultural Mosaic in an Intercultural Context
Cross-listed: IT 276, IT 228
Instructor: Aviam, M., Cseri-Briones, P., Gross, K., Siniscalco, F., Stocchi-Perucchio, D.
Description: Please see IT 276 for the course description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 207C
Title: Modern Italy 1815 - 1948
Cross-listed: IT 228/HIS 228
Instructor: Conti, G.
Description: Please see IT 228 for the course description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 208E
Title: Great Cities: Tokyo
Cross-listed: JPN 262
Instructor: Pollack, D.
Description: Please see JPN 262 for course description.

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 208G
Title: Creative Ethnography
Cross-listed: ANT 274, ENG 130
Instructor: Emmett, A.
Description: Please see ANT 274 for Course Description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 213B
Title: Our Voyage to Italy
Cross-listed: IT 248, FMS 256A, CLT 213B, HIS 221
Instructor: Stocchi-Perucchio, D.
Description: For course description see IT 248

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 214A
Title: History of Japanese Cinema
Cross-listed: CLT 414A, JPN 283/283W, FMS 283
Instructor: Bernardi, J.
Description: See JPN 283 for the course description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 214M
Title: Atomic Creatures: Godzilla

Cross-listed:	JPN 214, CLT 414m, FMS 270	Department:	Modern Languages & Cultures -- Comparative Literature
Instructor:	Bernardi, J.	Course:	CLT 253C
Description:	For Course description, see JPN 214	Title:	Dante's Divine Comedy I
Department:	Modern Languages & Cultures - Comparative Literature	Cross-listed:	CLT 116Q, 253C/IT 195Q, 220/ENG 206/REL 197Q/285
Course:	CLT 217	Instructor:	Stocchi-Perucchio, D.
Title:	Men of Marble, Women of Steel: An Introduction to East European Film	Description:	Please see IT 220 for the course description.
Cross-listed:	GER 485, FMS 247, WST 292, GER 285	Department:	Modern Languages & Cultures - Comparative Literature
Instructor:	Creech, J.	Course:	CLT 256B
Description:	For Course Description see GER 285	Title:	Don Quixote: The Book, the Myth, the Image
Department:	Modern Languages & Cultures - Comparative Literature	Cross-listed:	SP 215, ENG 243
Course:	CLT 218	Instructor:	Prendergast, R.
Title:	Film History - 1929 - 1959	Description:	For course description see SP 215
Cross-listed:	ENG 256/456, AH 253, CLT 218, FMS 234	Department:	Modern Languages & Cultures -- Comparative Literature
Instructor:	Willis, S.	Course:	CLT 264A
Description:	Please see ENG 256 for the course description.	Title:	The Culture of Zen
Department:	Modern Languages & Cultures - Comparative Literature	Cross-listed:	JPN 233, CLT 464A, HIS 277, REL 283, AH 233
Course:	CLT 219	Instructor:	Pollack, D.
Title:	Bunuel and Co.	Description:	Please see JPN 233 for the course description.
Cross-listed:	SP 485/285, FMS 264	Department:	Modern Languages & Cultures - Comparative Literature
Instructor:	Schaefer, C.	Course:	CLT 265
Description:	For course description see SP 285	Title:	Russian Drama: Life in the Theater
Department:	Modern Languages & Cultures - Comparative Literature	Cross-listed:	RUS 222, RST 222, ENG 245
Course:	CLT 228	Instructor:	Maslennikova, A.
Title:	Brazilian Literature and Culture	Description:	For Course Description see RUS 222
Cross-listed:	SP 266, SP 466	Department:	Modern Languages & Cultures -- Comparative Literature
Description:	For course description see SP 266	Course:	CLT 274B
Description:	For course description see SP 285	Title:	Kabuki Theater
Department:	Modern Languages & Cultures -- Comparative Literature	Cross-listed:	JPN 223/CLT 474B
Course:	CLT 231E	Instructor:	Pollack, D.
Title:	Black Paris	Description:	Please see JPN 223 for the course description.
Cross-listed:	FR 247, AAS 226, WST 250	Department:	Modern Languages & Cultures - Comparative Literature
Instructor:	Kemedjio, C.	Course:	CLT 282
Description:	Please see FR 247 for Course Description.	Title:	Freud and Psychoanalysis
Department:	Modern Languages & Cultures -- Comparative Literature	Cross-listed:	GER 206/406, CLT 482, WST 274,
Course:	CLT 251	Instructor:	Gustafson, S.
Title:	The Novel in Europe: 1814-1848	Description:	For course description see GER 206
Cross-listed:	FR 235/435, CLT 451	Department:	Modern Languages & Cultures - Comparative Literature
Instructor:	Doran, Robert	Course:	CLT 287
Description:	For Course Description see FR 235	Title:	Studies in Translation
		Cross-listed:	ENG 287/487, LTS 200, CLT 487
		Instructor:	J. Michaels

Description:	See "ENG 287" for description	Instructor:	Doran, Robert
Department:	Modern Languages & Cultures - Comparative Literature	Description:	For Course description see FR 235
Course:	CLT 389	Department:	Modern Languages & Cultures - Comparative Literature
Title:	Major Seminar	Course:	CLT 462
Instructor:	DiPiero, T.	Title:	Walking on Your Head Writing Vertigo in German Literature and Philosophy
Description:	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.	Cross-listed:	GER 246/446, CLT 262C
		Instructor:	Peck, J.
		Description:	See description for GER 246
		Department:	Modern Languages & Cultures - Comparative Literature
		Course:	CLT 464A
		Title:	The Culture of Zen
		Cross-listed:	JPN 233, CLT 264A, HIS 277, AH 233, REL 283, HIS 277
		Instructor:	Pollack, D.
		Description:	Please see JPN 233 for Course Description.
		Department:	Modern Languages & Cultures - Comparative Literature
		Course:	CLT 474B
		Title:	Kabuki Theater
		Cross-listed:	JPN 223, CLT 274B
		Instructor:	Pollack, D.
		Description:	See JPN 223 for course description
Department:	Modern Languages & Cultures - Comparative Literature	Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 414A	Course:	CLT 475
Title:	History of Japanese Cinema	Title:	Cross-Readings: Cultures of Spain and Latin America
Cross-listed:	JPN 283/283W, CLT 214A, FMS 283	Cross-listed:	SP 275, CLT 206, SP 475
Instructor:	Bernardi, J.	Instructor:	Schaefer, C.
Description:	Please see JPN 283 for Course Description.	Description:	Please see SP 275 for the course description.
Department:	Modern Languages & Cultures - Comparative Literature	Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 414M	Course:	CLT 482C
Title:	Atomic Creatures: Godzilla	Title:	Freud and Psychoanalysis
Cross-listed:	JPN 214, CLT 214M, FMS 270	Cross-listed:	CLT 282C/GER 206, 406/WST 274
Instructor:	Bernardi, J.	Instructor:	Gustafson, S.
Description:	For Course Description see JPN 214	Description:	Please see GER 206 for description.
Department:	Modern Languages & Cultures - Comparative Literature	Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 432	Course:	CLT 487
Title:	The Holocaust: Aesthetics of Representation and Negotiation	Title:	Studies in Literary Translation
Cross-listed:	CLT 247/447	Cross-listed:	LTS 200, ENG 287/487, CLT 287
Instructor:	Hwang, J.	Instructor:	Michaels, John
Description:	For Course description see GER 247	Description:	For Course Description See ENG 287
Department:	Modern Languages & Cultures - Comparative Literature	Department:	Modern Languages & Cultures - Comparative Literature
Course:	CLT 451		
Title:	The Novel in Europe: 1814-1848		
Cross-listed:	FR 235/435, CLT 251		

Course: CLT 592
Title: Languages Learning and Teaching
Instructor: Lutkus, A.
Description: This course treats of the theory and practice of second language learning and teaching. Students are responsible for in-class discussions of theoretical questions and classroom applications. Grade is based on class participation, a brief oral presentation and written reports on visits to foreign language classes.

Department: Modern Languages & Cultures -- French
Course: FR 152
Title: Intermediate French II
Instructor: Douchin, A. **Class Size:** 15
Prerequisites: FR 151, or ETS score of 550
Exams: Quizzes, compositions, final exam
Description: 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.

Modern Languages & Cultures -- French

Department: Modern Languages & Cultures -- French
Course: FR 101
Title: Elementary French I
Instructor: Lutkus, A., **Class Size:** 23
Exams: Occasional quizzes, final exam
Description: French 101 is an introductory language course. Students learn fundamentals of the grammar, culture, and pronunciation of the French language. Emphasis is on developing communicating skills, principally speaking but including listening, reading and writing. There is an obligatory recitation section twice a week in addition to the main class and the work in the multimedia center.

Department: Modern Languages & Cultures -- French
Course: FR 114
Title: Conversational French (2 credits)
Instructor: Lutkus, A. **Class Size:** 15
Prerequisites: FR 102, 151, or equivalent
Exams: Oral Examinations
Description: 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 twice for credit.

Department: Modern Languages & Cultures -- French
Course: FR 151
Title: Intermediate French I
Instructor: Douchin, A. **Class Size:** 15
Prerequisites: ETS score of 500 or permission of instructor
Exams: Quizzes, compositions, hour exams
Description: 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.

Department: Modern Languages & Cultures -- French
Course: FR 155
Title: French Conversation and Composition
Description: 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. Course materials include extensive use of popular French culture, including film.

Department: Modern Languages & Cultures -- French
Course: FR 200
Title: Advanced French I
Instructor: Doran, Robert **Class Size:** 20
Prerequisites: FR 152 or equivalent
Description: 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.

Department: Modern Languages & Cultures -- French
Course: FR 204
Title: Contemporary French Culture
Cross-listed: FR 404
Instructor: Kemedjio, C. **Class Size:** 30
Prerequisites: FR 114, 200 or permission of instructor.
Description: This course is designed to provide students with a comprehensive view of French Contemporary culture through major trends of French cultural, political, and intellectual life in the recent years. While we cannot study factual representations of French culture, we will attempt to establish a conceptual framework that would help us in the understanding of complex questions such as; What does it mean to be French?, What is France? What is French culture?, etc.

Department: Modern Languages & Cultures -- French
Course: FR 226
Title: Reason and Scandal

Instructor: DiPiero, T.
Description: Early modern France was for centuries governed and controlled through fear, convention, oppression, and superstition. The Age of Enlightenment produced thinkers who challenged tradition authority and suggested models for independent reasoning, empirical thought, and , perhaps most radically, human equality. While their works persist today as models of the power of independent thinking, the battles were hard won: most of the writings of authors such as Voltaire, Diderot, Roussau, Montesquieu, Mme de Grafigny, and the marquis de Sade met with harsh critical condemnation. This course will examine the birth of modern forms of reason in eighteenth-century France and its connections to scandal, outrage, and hostility.

Department: Modern Languages & Cultures -- French
Course: FR 235
Title: The Novel in Europe: 1814-1848
Instructor: Doran, Robert
Cross-listed: FR 435, CLT 251/451
Description: This course studies the emergence of historical fiction and realism in the first half of the nineteenth century as a European-wide phenomenon. Through the study of four seminal novels-- Scott's Waverly (1814), Manzoni's The Betrothed (1822/1840), Stendhal's The Red and the Black (1830), and Balzac's Lost Illusions (1837-1843)--we will examine how literary representation as epitomized in the novel coincided with the rise of the bourgeois class as political, social, and economic force. Concepts discussed: Bildungsroman (roman d' apprentissage), mimesis, figuralism, historical consciousness, style, narration. Critical readings include texts by Erich Auerbach, Georg Lukacs, Ren  Girard, Franco Moretti, Fredric Jameson, and Hayden White.

Department: Modern Languages & Cultures -- French
Course: FR 247
Title: Black Paris
Cross-listed: AAS 226, CLT 231E, WST 250
Instructor: Kemedjio, C.
Description: This course is a study of Black Paris, as imagined by three generations of Black cultural producers from the United States, the Caribbean and Africa. Paris is as a space of freedom and artistic glory that African America writers, soldiers and artists were denied back home. For colonized Africans, and Caribbeans, Paris was the birthplace of the Negritude, the ultimate cultural renaissance influenced by the Harlem Renaissance. From Josephine Baker, Richard Wright, James Baldwin to Shay Youngblood's Black girl in Paris, from Aime Cesaire to Maryse

Conde, from Bernard Dadie's An African in Paris and to contemporary Franco-African writing, we will investigate how the representation of Paris functions in the construction of a black identities. Readings include; Black Girl in Paris (Shay Youngblood), Desirada (Maryse Conde), The Josephine Baker Story. Paris Noir: African Americans in the City of Light (Tyler Stovall), An African in Paris (Bernard Dadie).

Department: Modern Languages & Cultures -- French
Course: FR 404
Title: Contemporary French Culture
Cross-listed: FR 204
Instructor: Kemedjio, C.
Description: Please see FR 204 for course description

Department: Modern Languages & Cultures -- French
Course: FR 435
Title: The Novel in Europe: 1814-1848
Cross-listed: FR 235, CLT 251/451
Instructor: Doran, Robert
Description: For Course description see FR 235

Modern Languages & Cultures -- German

Department: Modern Languages & Cultures -- German
Course: GER 101
Title: Elementary German I
Exams: At least 4 quizzes; midterm; final exam
Description: This is the first semester 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: Modern Languages & Cultures -- German
Course: GER 151
Title: Intermediate German I **Class Size:** 15
Prerequisites: GER 102 or permission of instructor
Exams: 4-5 quizzes, final exam
Description: Process writing, reading, and listening exercises provide the context in this course for a thorough review of German grammatical structures. Students are expected to write short, weekly essays, complete weekly assignments in listening, and hone their speaking skills through active class participation.

Department: Modern Languages & Cultures -- German
Course: GER 200
Title: Advanced Conversation and Composition
Cross-listed: GER 200W
Instructor: Creech, J. **Class Size:** 25
Prerequisites: GER 152 or equivalent
Exams: Midterm and final
Description: This class assumes enough knowledge of the German language for reading somewhat longer fictional and nonfictional texts and viewing films in the original. The class is organized around general topics and themes. Students will write short, weekly essays in German on select topics. Class taught in German.

Department: Modern Languages & Cultures -- German
Course: GER 200W
Title: Advanced Conversation and Composition
Cross-listed: GER 200
Instructor: Creech, J.
Description: For course description see GER 200

Department: Modern Languages & Cultures -- German
Course: GER 203
Title: Introduction to German Literature
Cross-listed: GER 203W
Instructor: Hwang, J.
Prerequisites: GER 152 or equivalent
Description: Everything you ever wanted to know about German literature but were afraid to ask. This course looks at German poems, plays and novellas from various historical periods and within the context of several techniques of interpretation. It is designed to prepare students for sophisticated analysis of literary texts. This course is taught in German.

Department: Modern Languages & Cultures -- German
Course: GER 203W
Title: Introduction to German Literature
Cross-listed: Ger 203W
Instructor: Hwang, J.
Description: See GER 203 for Course Description

Department: Modern Languages & Cultures -- German
Course: GER 206
Title: Freud and Psychoanalysis
Cross-listed: CLT 282C, 482C/GER 406/WST 274
Instructor: Gustafson, S.

Description: Freud is one of the most influential thinkers of the 20th century. His ground-breaking work on dreams, the Oedipus Complex, and psychoanalytic method have profoundly changed our understanding of the psyche and social interaction. This course provides a basic survey of Freud's most important and often controversial writings/discoveries within their historical context and with regards to significant criticisms of his work. "Freud: An Introduction" is part of a cluster which includes courses of Marx and Nietzsche (these courses need not be taken in any particular order).

Department: Modern Languages & Cultures -- German
Course: GER 215
Title: Conversational German For Special Purposes
Description: This course is primarily a conversation course in which the students will be exposed to topics that are drawn from specialized areas, for instance, Art, Music, Science, History and so on.

Department: Modern Languages & Cultures -- German
Course: GER 247
Title: The Holocaust: Aesthetics of Representation and Negotiation
Cross-listed: CLT 432, GER 447
Instructor: Hwang, J.
Description: In this course we will explore the roles that aesthetics play in the aftermath of the Holocaust. We will look at plays, novels, poetry and films and some of the questions that will be raised include: What is the connection between the form and content of these works? Are there artistic as well as thematic similarities between these various responses to the Holocaust? What are the aesthetic consideration that are particular to each game? This course is not a history class about the Holocaust; it will not examine the historical details of the Holocaust in any depth. Instead, this course offers a look at the ways in which artists and their audiences negotiate the themes of loss, horror and redemption within the context of Holocaust and its aftermath.

Department: Modern Languages & Cultures -- German
Course: GER 285
Title: Men of Marble, Women of Steel: An Introduction to East European Film
Cross-listed: GER 485, WST 292, CLT 217,FMS 247
Instructor: Creech, J.
Description: This course will provide a general introduction to the history, artistry and politics of East European film. We will begin by considering the place of East European Film in the context of contemporary film studies and the industry structure of state socialist filmmaking. We will then explore individual films from a

regional (not national) perspective, considering how they confront issues such as the burden of history and ethics, the tensions between modernity and tradition, the struggle between creativity and censorship, as well as the reluctant feminism of state socialism and representations of gender and sexuality.

Department: Modern Languages & Cultures -- German
Course: Ger 406
Title: Freud and Psychoanalysis
Cross-listed: CLT 282C, 482C/GER 206/WST 274
Instructor: Gustafson, S.
Description: Please see GER 206 for course description.

Department: Modern Languages & Cultures -- German
Course: GER 447
Title: The Holocaust: Aesthetics of Representation and Negotiation
Cross-listed: GER 247, CLT 432
Instructor: Hwang, J.
Description: For course description see GER 247

Department: Modern Languages & Cultures -- German
Course: GER 485
Title: Men of Marble, Women of Steel: An Introduction to East European Film
Cross-listed: GER285, WST 292, CLT 217, FMS 247
Instructor: Creech, J.
Description: For course description see GER 285

Modern Languages & Cultures -- Italian

Department: Modern Languages & Cultures -- Italian
Course: IT 101
Title: Elementary Italian I
Instructor: O'Keefe, L.
Exams: Four quizzes, four exams, final
Description: The objective of the course is to provide beginners with a thorough grounding in all language skills: listening, speaking, reading and writing. Emphasis is placed on both grammar and cultural information. Classes meet five times a week and combine language theory and practice. Each class is fifty minutes long. Students must sign up for both a MWF and a TR block. As far as Italian is concerned, the terms lecture and recitation conventionally used to identify the blocks have a purely bureaucratic significance and do not reflect in any way the pedagogical approach of the course.

Department: Modern Languages & Cultures -- Italian

Course: IT 111
Title: In Arezzo - Elementary Italian
Instructor: Lupini, L.
Exams: Five quizzes
Coursework: One final 1-2 page written report in Italian
Description: The course offers both an intensive training in communication skills and an introduction to basic Italian grammar. The first component serves the purpose of facilitating students' experience of full immersion in Italian language and culture. Emphasis is mainly on speaking and comprehension. Language training is geared toward the practical needs of everyday life. The second component teaches how the language works in terms of grammatical structures and linguistic principles. Its objective is the achievement of correctness in both speaking and writing.

Department: Modern Languages & Cultures -- Italian
Course: IT 114
Title: Conversational Italian (2 credits) **Class Size:** 15
Prerequisites: At least one semester of College Italian or equivalent, with permission of the instructor.
Description: This conversation course designed to help students with some knowledge of Italian grammar develop facility with the spoken language. Emphasis is placed on vocabulary- building. Class time devoted to debate, discussions, and conversations about current topics and aspects of contemporary Italian culture. Themes for discussion are both extemporaneous and planned. Students are expected to prepare for the assigned themes in advance. Recommended in conjunction with any Italian course, except for IT 101, for extra oral practice. May be taken twice.

Department: Modern Languages & Cultures -- Italian
Course: IT 151
Title: Intermediate Italian I
Instructor: O'Keefe, L. **Class Size:** 15
Prerequisites: Two semesters of college-level Italian.
Exams: Seven exams, one final paper
Coursework: Daily oral and written preparation for class.
Description: 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, through compositions, and discussion include literature, history, and popular culture.

Department: Modern Languages & Cultures - Italian
Course: IT 153

Title: In Arezzo - Accelerated Italian
Instructor: Convertito, G.
Restrictions: Not open to freshmen and sophomores
Coursework: Three 200 word reports to be presented in class. Three quizzes.
Description: The course will enhance comprehension and communication skills as well as knowledge of Italian grammar. Emphasis is on reading, vocabulary building, and perfecting oral and written skills. In addition to the above courses, all students participate in frequent afternoon cultural/language activities, which involves visits to important sites such as the University, the Comune (city hall), and the Duomo (cathedral). Students also enjoy studying the economic backbone of Arezzo which includes, among other things, the production of gold, wine, olive oil, and clothing. All of these outings will be framed in both historical and contemporary contexts.

Department: Modern Languages & Cultures -- Italian
Course: IT 159
Title: Roman Structures: Engineering in the Classical World
Cross-listed: ME 105/ME105A, CLA 213, AH 189
Instructor: Perucchio, R.
Restrictions: Special application required
Description: Please see ME 105 for the course description.

Department: Modern Languages & Cultures -- Italian
Course: IT 195Q
Title: Dante's Divine Comedy I, Inferno and Purgatorio
Cross-listed: CLT 116Q, 253C/ENG 206/IT 220/REL 197Q,
Instructor: Stocchi-Perucchio, D.
Description: Please see IT 220 for the course description.

Department: Modern Languages & Cultures -- Italian
Course: IT 220
Title: Dante's Divine Comedy I, Inferno & Purgatorio
Cross-listed: CLT 116Q, 253C/ENG 206/IT 195Q/REL 197Q,
Instructor: Stocchi-Perucchio, D.
Description: This course is the first 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 knowledge--one of the poem's central concerns--and guide them in developing critical tools and research skills. We

will begin the course by building a historical and intellectual frame of reference in which to locate The Divine Comedy. We will then proceed to a close reading of Inferno and a few cantos of Purgatory. Lectures and class discussion will be complemented by a weekly recitation session. Students with background or interest in the following areas are particularly encouraged to apply: Italian, history, classics, religion, philosophy, poetry, medieval studies, interdisciplinary studies. Students enrolled for the upper level cross listings will be assigned a separate complementary reading list with additional primary and secondary sources. Prerequisites: none. Continuation with Dantes Divine Comedy II is recommended but not required.

Department: Modern Languages & Cultures - Italian
Course: IT 228
Title: Modern Italy 1815 - 1948
Cross-listed: CLT 207C/HIS 228
Instructor: Conti, G.
Exams: Mid-term and final exam
Coursework: Term paper and oral presentation.
Description: To set the stage for the unfolding of the Risorgimento and Italy's continuing search for a national political identity in the nineteenth and twentieth centuries, the course begins with a two-week introduction to contemporary Italian society, national and local political institutions, geography, and a panoramic view of the historical development of the Italian peninsula from the fall of the Roman empire to the French Revolution. After this introduction the course follows a multidisciplinary approach to the study of united Italy's political, social, and cultural history, through the adoption of the anti- fascist constitution of 1948.

Department: Modern Languages & Cultures - Italian
Course: IT 244
Title: From Piero to Vasari Fifteenth Century Italian Art
Cross-listed: AH 244
Instructor: Capacci, M.
Exams: A mid-term; and a final exam.
Coursework: Two short presentations.
Description: When we look at works of art in museums, galleries, and churches we are, in most cases, looking at them out of context. Furthermore, when we look at early Renaissance paintings we do not see them through the eyes of the people who produced them or for whom they were produced. We have to learn to see them as they might have been seen. We can begin to do this by learning how to read and to interpret the complex elements at play beneath the immediate surface by setting the artist, his work, and his public in their social and religious historical contexts, and by

exploring the universal unspoken language of signs and symbols used by artists. The course content is based on painted forms, i.e., panels, canvases, and frescos from the Trecento and Quattrocento with an emphasis on Tuscan painting. The selection, as far as possible, takes advantage of the availability of works in churches, museums, and galleries within easy visiting distance of Arezzo.

Department: Modern Languages & Cultures -- Italian
Course: IT 248
Title: Our Voyage to Italy
Cross-listed: CLT 213B and FMS 256A
Instructor: Donatello Stocchi-Perucchio
Description: The course focuses on a few momentous episodes and phenomena of Italian political, social and cultural history as portrayed and interpreted in film

Department: Modern Languages & Cultures - Italian
Course: IT 276
Title: Italy A Cultural Mosaic in an Intercultural Context
Cross-listed: CLT 207B
Instructor: Fraser J, Kaeuper R, Douglas D, D'Amanda E, Siniscalco F, Stocchi-Peruc, D
Description: The course consists of six units taught sequentially by visiting faculty. Other course-related study visits such as a three-day archaeological trip to Rome enhance classroom instruction. Shaped by the experience of the Renaissance, Italian culture has preserved a quintessentially interdisciplinary character. The objective of this course is to capitalize on the numerous challenges presented by the culture in itself and by the intercultural exchanges the program promotes, in order to provide students with multiple avenues of inquiry and multiple methodological tools.

Modern Languages & Cultures -- Japanese

Department: Modern Languages & Cultures -- Japanese
Course: JPN 101
Title: Elementary Japanese I
Instructor: McLaughlin-Fumino, S. **Class Size:** 40
Prerequisites: Quizzes, lesson tests, final exam
Description: STUDENTS MUST REGISTER FOR BOTH LECTURE AND RECITATION. Designed to help beginners acquire a basic command of Japanese. Speaking and listening are emphasized. The classes will be conducted in English and Japanese, shifting from the former to the latter. In the beginning, students will master the Japanese "hiragana" writing system, which they will use in the rest of the course. Students will learn various sentence

and phrase particles, basic word order, basic conjugation, and number systems. As the course progresses, katakana syllabaries and kanji (Chinese characters) will be also introduced. Requirements include regular assignments, quizzes, a final exam and language lab. Video and audio tapes are frequently used. Six credits.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 114
Title: Intermediae Conversational Japanese
Instructor: Tamate, M.
Prerequisites: JPN 102 or equivalent
Description: Emphasis on speaking skills with focus on current issues in 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: Modern Languages & Cultures -- Japanese
Course: JPN 151
Title: Intermediate Japanese I
Instructor: Tamate, M. **Class Size:** 30
Prerequisites: JPN 102 or instructor's permission
Description: STUDENTS MUST REGISTER FOR BOTH LECTURE AND RECITATION. Sequel to Japanese 102. Lecture and recitation designed to help the students at the intermediate level acquire a practical command of modern Japanese in all areas. Although speaking and listening will remain the main skills to be worked on, the amount of reading and writing will be significantly increased compared to Japanese 102. The classes will be conducted in Japanese except in the grammar lecture. Requirements include daily kanji quizzes and performing skits. Text: An Integrated Approach to Intermediate Japanese by Akira Miura & Naomo Hanaoka McGloin (The Japan Times). This course covers L.1 through 6 of the textbook. 6 credits.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 202
Title: Advanced Intermediate Japanese I
Instructor: Tamate, M. **Class Size:** 20
Prerequisites: JPN 152 or instructor's permission
Exams: Kanji quizzes, Unite quizzes, a comprehensive final.
Coursework: Essay assignments will be given to students regularly in order to brush up their writing skills.
Description: This course aims at the improvement of students'overall proficiency in the Japanese language. More weight will be placed on reading and writing with the aid of dictionaries. Listening and

speaking skills will be improved through watching a Japanese drama. Class taught in Japanese.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 204
Title: Advanced Conversational Japanese (two credits)
Instructor: Tamate, M. **Class Size:** 20
Prerequisites: JPN 152 or Permission of Instructor
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.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 205
Title: Advanced Japanese I
Cross-listed: JPN 205W
Instructor: Tamate, M. **Class Size:** 30
Prerequisites: JPN 203 or equivalent
Exams: Kanji quizzes, Unite quizzes, a comprehensive final.
Coursework: Presentations
Description: This course covers various aspects of contemporary Japanese language culture as found in magazines, journals, television. Taught in Japanese.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 205W
Title: Advanced Japanese I
Cross-listed: JPN 205
Instructor: Tamate, M.
Description: See JPN 205 for course description

Department: Modern Languages & Cultures - Japanese
Course: JPN 214
Title: Atomic Creatures: Godzilla
Cross-listed: CLT 214M/414M, FMS 270
Instructor: J Bernardi
Description: A study of the phenomenon that generated and helped define the Japanese kaiju eiga (monster film) genre: the Godzilla series that began with the original film by Inoshiro Honda (Gojira, 1954), and its better-known US remake (Godzilla, King of the Monsters, 1956). The larger context of the course is a critical investigation of the science-fiction/horror/creature feature film generated in the late 1940s by the dawn of the nuclear age. The course will begin with a sampling of seminal non-Japanese titles that created a paradigm for the Godzilla film, and will address the

historical and social contexts for the series erratic trajectory since 1954. Students are responsible for assigned readings and are required to attend screenings. Previous course work in Japanese and /or film studies (theory, history and analysis) is useful but not required

Department: Modern Languages & Cultures -- Japanese
Course: JPN 216
Title: Traditional Japan
Cross-listed: HIS 105
Instructor: Hauser, W.
Description: Please see HIS 105 for the course description.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 223
Title: Kabuki Theater
Cross-listed: CLT 274B/474B
Instructor: Pollack, D.
Description: An introduction to the techniques, actors, and repertory of one of the world's great theatrical traditions. Readings and screenings include many of the greatest works of the classical kabuki stage. Class taught in English with additional instruction in Japanese as required for majors.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 232
Title: Asian Calligraphy: Structure
Cross-listed: CHI 232
Instructor: Spence, Y. **Class Size:** 20
Description: East Asian calligraphy is the oldest continuous writing system in the world, and ranks as an art with poetry and painting. This innovative course joins the two components by offering one class period of writing with a licensed teacher of calligraphy, and one dealing with the history and art of calligraphy each week. Students must attend and are graded on both parts. The course is restricted to those who have completed at least one year of formal Chinese or Japanese language instruction. Enrollment is limited and preference will be given to those currently enrolled in Asian language study.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 233
Title: The Culture of Zen
Cross-listed: CLT 264A,464A/HIS 277/AH233/REL283
Instructor: Pollack, D.
Description: Zen Buddhism was the core around which many of Japan's greatest cultural achievements evolved. From the medieval

period on, with its importation from China, the culture of Zen served as the primary context for much of Japanese metaphysics, architecture, landscape and interior design, medicine, ink painting, noh drama, haiku poetry, as well as the entire cultural complex known as the tea ceremony. Along with the Zen doctrinal and textual roots of these remarkable achievements, this course will examine the vibrant culture fostered in the medieval Zen monastic temple institution known as the Gozan and its dispersal into the culture at large.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 262
Title: Great Cities: Tokyo
Cross-listed: CLT 208E
Instructor: Pollack, D.
Description: Today's Tokyo as objective and subjective experience, historical evolution and modern condition. The city in architecture and art, fiction and song, drama and film.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 283
Title: History of Japanese Cinema
Cross-listed: JPN 283W, CLT 214A/414A, FMS 283
Instructor: Bernardi, J.
Description: A survey of Japanese cinema since its origins, this course examines the major issues, trends and moments that make up its history. Content varies according to the particular time span offered (origins to 1960s or origins to present), but significant topics addressed include: silent film and popular culture; the import market and its influence; prewar, wartime and postwar censorship; popular genres; animation; the early international festival circuit; the art film and New Wave; and patterns of global distribution and exchange. Course taught in English (additional instruction in Japanese available for majors).

Modern Languages & Cultures -- Polish

Department: Modern Languages & Cultures -- Polish
Course: POL 101
Title: Elementary Polish I
Description: The main objective of the Elementary Polish course for beginners is to provide the basic uses of Polish syntax, the cases and prepositions as well as word-formative process. Polish grammar is presented as an integral part of the basic textbook. Two consecutive semesters of Elementary Polish will include; sounds and spellings, relationships between sounds and inflection as well

as basic knowledge of Polish nouns, pronouns, adjectives, numbers and verbs.

Department: Modern Languages & Cultures -- Polish
Course: POL 103
Title: Polish Review
Description: Builds on basic speaking and conversation skills learned in introductory level Polish courses taken at the University of Rochester or at Study Abroad programs.

Department: Modern Languages & Cultures -- Polish
Course: POL 151
Title: Intermediate Polish
Instructor: Polakowski, K.
Description: While the main focus of the Elementary Polish Course was put on word-formative process, the basic use of the cases and prepositions as well as the essential aspects of Polish syntax, the intermediate course will focus on active use of contemporary Polish, written and colloquial. The main objective, based on basic knowledge of grammatical rules is to achieve independence in communication. Summer courses of the Polish language in Krakow, facilitated by the Skalny Center for Polish and Central European Studies at U.R. is highly recommended after completion of the intermediate course.

Modern Languages & Cultures -- Russian

Department: Modern Languages & Cultures -- Russian
Course: RUS 101
Title: Elementary Russian I
Instructor: Givens, J. **Class Size:** 45
Exams: 6-8 chapter tests
Description: 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 in Russian. Students must sign up for lecture and recitation section.

Department: Modern Languages & Cultures -- Russian
Course: RUS 126
Title: Russia Now (4 credits)
Cross-listed: RST 126/HIS 154, RUS 126
Instructor: Parthe, K. **Class Size:** 15
Description: Please see RST 126 for the course description.

Department: Modern Languages & Cultures -- Russian
Course: RUS 127
Title: Russia Now (2 credits)

Cross-listed: RST 127/HIS 153
Instructor: Parthe, K. **Class Size:** 20
Coursework: The 2-credit version of RUS 126. (Qualifies for RUS major/minor, RST major/minor and RUS and RST cluster credit when taken twice or in conjunction with another 2-credit course in this area, such as RUS 114 or RUS 124).
Description: Please see RST 127 for the course description.

Department: Modern Languages & Cultures -- Russian
Course: RUS 151
Title: Intermediate Russian I
Instructor: Givens, L. **Class Size:** 25
Prerequisites: RUS 102 or equivalent
Exams: 5 Chapter tests
Description: Emphasis on reading, writing, conversation and further development of grammatical concepts introduced in first-year Russian. The building of vocabulary and comprehension skills will also be stressed.

Department: Modern Languages & Cultures -- Russian
Course: RUS 190Q
Title: Tolstoy's War and Peace
Cross-listed: RST 190Q/235/235W, CLT 113Q, RUS 235/235
Instructor: Givens, J.
Description: A semester-long exploration of the world of War and Peace, a novel that begins with characters speaking French, fights its way across battlefields both personal and national, and ends with a complete philosophy of history that is both complex and strangely moving. We will begin by reading short, pre-War and Peace works (Sevastopol Stories, Family Happiness). The class will then work its way through the novel while looking at materials that will help "unpack" it, including historical accounts of the same events and attempts by Russian, English, and American directors to capture the essence of the novel on film. We will conclude by reading selected short works written after War and Peace. (In English)

Department: Modern Languages & Cultures -- Russian
Course: RUS 202
Title: Advanced Readings in Russian
Instructor: Maslennikova, A. **Class Size:** 15
Description: This course concentrates on increasing speed and comprehension in reading Russian. Students will read a variety of texts, both fiction and non-fiction from the early nineteenth century up to the present. We will discuss the texts, translate excerpts, focus on difficult grammatical constructions, build reading vocabulary through attention to identifying roots and endings, and write short

essays in Russian about the readings. Class is conducted primarily in Russian.

Department: Modern Languages & Cultures -- Russian
Course: RUS 212
Title: Advanced Literature and Culture in Original
Instructor: Maslennikova, A. **Class Size:** 30
Description: This course is designed for students who can read Russian at an advanced level and wish to pursue particular areas of interest. Each student will draw up a reading list for the term with the help of the instructor. We will meet individually each week and periodically as a group at a time convenient to members of the class. Students will write essays in Russian on their area of interest.

Department: Modern Languages & Cultures -- Russian
Course: RUS 222
Title: Russian Drama: Life in the Theater
Cross-listed: RST 222, CLT 265, ENG
Instructor: Maslennikova, A.
Description: Theater in its cultural and political context. Plays by: Catherine II, Pushkin, Gogol, Ostrovsky, Tolstoy, Chekhov, Kharmis, Bulgakov, and others.

Department: Modern Languages & Cultures -- Russian
Course: RUS 235
Title: Tolstoy's War and Peace
Cross-listed: RUS 235/235W/190Q, CLT 113Q, RST 190Q
Instructor: Givens, J.
Description: Please see RUS 190Q for the course description.

Department: Modern Languages & Cultures -- Russian
Course: RUS 235W
Title: Tolstoy's War and Peace
Instructor: Givens, J.
Description: For Course Description see "RUS 190Q)

Department: Modern Languages & Cultures -- Russian
Course: RUS 247
Title: Secret Nation
Cross-listed: RUS247W/RST 247,247W/HIS 288,288W/JST249
Instructor: Parthe, K.
Prerequisites: None.
Description: The cult and culture of secrecy in Russia from Ivan the Terrible to the present. Russia's profile was always that of a carefully-constructed enigma, as the government - tsarist and Soviet - went to great trouble to both gather (through the secret police at

home and espionage abroad) and manipulate (through state control of printing and censorship) information. But the Russian people were also keeping a lot of information from the government, and foreign states sent out disinformation of their own to and about Russia. It is very clear that there was an active underground in religion, literature, politics, the economy and many other areas. With the policy of glasnost, Gorbachev began the painful process of uncovering secrets from above, and a freer press began to do the same from below. This course will use materials from history, religion, literature, film, political science, and economics to give a broad and yet richly detailed picture of the information that was hidden and the means by which this was accomplished. The official secrecy that was originally a defensive move came to undermine the state it sought to protect. At the end of the semester we will see to what extent old habits of secrecy persist in post-Soviet Russia. The course will be in English.

Department: Modern Languages & Cultures -- Russian
Course: RUS 247W
Title: Secret Nation
Cross-listed: RUS 247, RST 247, RST 247w, JST 249, HIS
Instructor: Parthe, K.
Description: See RUS 247 for Course description

Modern Languages & Cultures -- Russian Studies

Department: Modern Languages & Cultures -- Russian Studies
Course: RST 126
Title: Russia Now (4-credits)
Cross-listed: RUS 126/HIS 154
Instructor: Parthe, K. **Class Size:** 20
Description: Please see RUS 126 for the course description. Please contact the department or instructor during the first week of classes.

Department: Modern Languages & Cultures -- Russian Studies
Course: RST 127
Title: Russia Now (2 credits)
Cross-listed: RUS 127/HIS 153
Instructor: Parthe, K. **Class Size:** 20
Description: Please see RUS 127 for the course description. Please contact the department or instructor during the first week of classes.

Department: Modern Languages & Cultures -- Russian Studies
Course: RST 191Q

Title: Tolstoy's War and Peace
Cross-listed: RUS 235, 235w, RST 235, 235w, CLT 113Q,
Instructor: Givens, J.
Description: For Course Description see RST 190Q

Department: Modern Languages & Cultures - Russian Studies
Course: RST 222
Title: Russian Drama: Life in the Theater
Cross-listed: RUS 222, CLT 265, ENG 245
Instructor: Maslennikova, A.
Description: For Course Description see "RUS 222"

Department: Modern Languages & Cultures - Russian Studies
Course: RST 235
Title: Tolstoy's War and Peace
Cross-listed: RUS 190Q, 235W/RST 235, 190Q, 235W/CLT 1
Instructor: Givens, J.
Description: A Please see RUS 190Q for the course description.
Department: Modern Languages & Cultures -- Russian Studies
Course: RST 235W
Title: Tolstoy's War and Peace
Cross-listed: RST 190Q, RYS 235m RST 235w, RST 235w, CL
Instructor: Givens, J.
Description: See RUS 190Q for Course Description

Department: Modern Languages & Cultures -- Russian Studies
Course: RST 247
Title: Secret Nation
Cross-listed: RST247W/RUS 247, 247W/HIS 288, 288W/JST249
Instructor: Parthe, K.
Description: Please see RUS 247 for course description.

Department: Modern Languages & Cultures - Russian Studies
Course: RST 247W
Title: Secret Nation
Cross-listed: RUS 247, RUS 247w, RST 247, JST 249, HIS
Instructor: Parthe, K.
Description: For course description see RUS 247

Department: Modern Languages & Cultures -- Russian Studies
Course: RST 394
Title: Russian Studies Internship
Instructor: Parthe, K.
Coursework: Contact Prof. Kathleen Parthe during the first week of classes at 275-4176 or parthe@mail.rochester.edu
Description: This 2 or 4 credit-bearing internship involves (a) weekly visits with a Russian emigre family of one or more hours, (b) doing

readings provided by Professor Parthe on the experience of emigration from Russia to the US, and (c) keeping a journal of your experiences which will be handed in at the end of the term along with a short essay connecting what you observed on your visits to the readings. This internship has two purposes. The first is to help Russian Jewish immigrants with their English language skills and their overall adjustment to life in this country. The second is to give students the incomparable experience of hearing about Russian/Russian Jewish culture and family life from people who hope to preserve the best of that life in America. This work could also help launch a research project in a number of different areas (for example, Anthropology, History, or Judaic Studies). SEE ALSO JST (JUDAIC STUDIES) 394.

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.
Description: 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: Modern Languages & Cultures -- Spanish
Course: SP 102
Title: Elementary Spanish II
Instructor: Cole, A. **Class Size:** 20
Prerequisites: SP 101 or equivalent SP 101 or equivalent.
Exams: Frequent quizzes, midterm, final. Daily assignments.
Description: 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: Modern Languages & Cultures -- Spanish
Course: SP 151
Title: Intermediate Spanish I
Instructor: Cole, A., Soto-Mundaca, C., Kouroublakis, B. **Class Size:** 20
Prerequisites: SP 102, ETS score of 500 or Placement by dept.
Exams: Midterm, Final.
Coursework: Four Compositions and rewrites. Daily assignments.

Description: 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: Modern Languages & Cultures -- Spanish
Course: SP 152
Title: Intermediate Spanish II
Instructor: Soto-Mundaca, C., **Class Size:** 20
Exams: Midterm and Final.
Coursework: Four compositions and rewrites. Daily assignments.
Description: 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: Modern Languages & Cultures -- Spanish
Course: SP 200
Title: Advanced Spanish Composition
Instructor: Jorgensen, B., Rodriguez, R., Prendergast, R. **Class Size:** 15
Prerequisites: SP 151, SP 152 or equivalent, permission SP section.
Exams: Midterm and Final.
Coursework: Four compositions and rewrites. Film review. Daily assignments.
Description: 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 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.

Department: Modern Languages & Cultures -- Spanish
Course: SP 204
Title: Spanish-American Literature: 1800 to Present
Instructor: Jorgensen, B., **Class Size:** 15
Prerequisites: SP 200 or equivalent.
Exams: 2 exams (in class)
Coursework: Four short papers.
Description: This course provides a representative survey of Spanish-American literature from Independence (19th century) to the present within a cultural and historical framework. Genres covered include poetry, prose fiction, and theater. Emphasis on textual analysis, with attention to the context of diverse traditions and cultures of Spanish America. Class taught in Spanish.

Department: Modern Languages & Cultures - Spanish
Course: SP 215

Title: Don Quixote: The Book, the Myth, the Image
Cross-listed: CLT 256B, ENG 243
Instructor: Prendergast, R.
Description: This course entails a close reading of the novel in English translation, coupled with a focus on the ways in which both the novel and/or the protagonist have been adapted, adopted, interpreted or incorporated by various critical and popular traditions both inside and outside of Spain from the time of its original publication in 1605 through the 21st century. We will examine several filmic adaptations, illustrations and paintings as well, with an eye toward critically examining the problematic employment of Don Quixote as an icon of pan-Hispanic culture. However, we will continually return to the novel as our anchor throughout the course, while assessing the constantly changing ways in which contemporary readers and scholars approach the text. Course is taught in English. Students taking the course for Spanish credit will do the bulk of the work in Spanish.

Department: Modern Languages & Cultures -- Spanish
Course: SP 266
Title: Brazilian Literature and Culture
Cross-listed: SP 466, CLT 228
Instructor: Rodriguez, R.
Coursework: Course taught in English; Spanish credit for those who do written work in Spanish.
Description: Brazil covers nearly half of So. America and is the continent's largest nation, the fifth largest in the world after Russia, Canada, China, and the U.S. In 1500, Brazil was accidentally discovered by a fleet of ships sailing from Portugal to India under the command of Pedro Alvares Cabral. For 30 yrs after its discovery, when Europeans sought to extract the tropical hardwoods and valuable minerals through the slave trade of colonial times then as empire, monarchy, and republic Brazil's history has been complex and conflicted. This course explores the enormous geographic and linguistic diversity, historical polarities, nationalist movements, experiments in modernism, AfroBrazilian cultures and religions, immigration, and debates on race-class-and-gender that have created today's Brazil.

Department: Modern Languages & Cultures -- Spanish
Course: SP 275
Title: Cross-Readings: Cultures of Spain and Latin America
Cross-listed: CLT 206, SP 275, CLT 475
Instructor: Schaefer, C.
Description: There's no place like home? The twentieth century was an unprecedented time of upheaval: war, famine, exile, and immigration marked each decade, with the related issues of

"making a new home" but not truly leaving the past behind appearing in a variety of ways and representations. The twenty-first century has begun in much the same tone, with diaspora and migration across all types of borders and into the "unknown" marking modern nations, from Europe to Africa, from Asia to America, and among the Americas themselves. While some of these social movements, psychological traumas, and feelings of exclusion and persecution never leave a visible trace, many create enduring legacies in written texts, art, film, and other forms. This course examines the intimate links between visions of "home" and "exile" across Spain and Spanish-America, how the experiences of the last century created imaginaries that linger in individuals, communities, and cultures, and how new dreams of finding a way to feel "at home" are being forged despite geographical, psychological, spiritual, existential, and linguistic exiles. Materials we will explore include writings by Ariel Dorfman, Marta Traba, Alicia Partnoy, Cristina Peri Rossi, Carmen Martin Gaité, Bernardo Atxaga, Juan Goytisolo, Antonio Buero Vallejo, Antonio Machado, Pablo Neruda, and Cesar Vallejo; and films by Carlos Saura (Goya in Bordeaux) and Gregory Nava (El norte).

Department: Modern Languages & Cultures -- Spanish
Course: SP 285
Title: Bunuel and Co.
Cross-listed: SP 485, CLT 219, FMS 264
Instructor: Schaefer, C.
Description: This course examines Luis Bunuel's films, and the films of Spain's Carlos Saura and Mexico's Arturo Ripstein, in light of their formal association and personal fascination with Buuel's work. Particular attention paid to his satire of the neuroses, desires, and repression of the bourgeoisie, questions of national cinema, and the recycling of Surrealist images.

Department: Modern Languages & Cultures -- Spanish
Course: SP 466
Title: Brazilian Literature and Culture
Cross-listed: SP 266, CLT 228
Instructor: Rodriguez, R.
Description: See SP 266 for Course Description

Department: Modern Languages & Cultures -- Spanish
Course: SP 475
Title: Cross-Readings: Cultures of Spain and Latin America
Cross-listed: SP 275, CLT 206, CLT 475
Description: See SP 275 for course description

Department: Modern Languages & Cultures -- Spanish
Course: SP 485
Title: Bunuel and Co.
Cross-listed: SP 285, CLT 219, FMS 264
Instructor: Schaefer, C.
Description: For course description see "SP 285"

Music

Department: Music
Course: MUR 101
Title: Elements of Music
Instructor: Hanson J **Class Size:** 30
Prerequisites: Inability to read music
Exams: Mid-term, final, some quizzes
Description: 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: Music
Course: MUR 109
Title: Musicianship I -- Literacy Skills **Class Size:** 10
Prerequisites: Prior experience in reading music notation in treble or bass clef.
Description: 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)

Department: Music
Course: MUR 110
Title: Introduction to Music Theory **Class Size:** 30
Prerequisites: Ability to read music, preferably both treble & bass clefs
Exams: Mid-term, final, quizzes
Description: Basic concepts of music theory, addressing students with some musical experience in an instrument or voice, but little or no music theory. Scales, keys, intervals, chords, basic part-writing, and other fundamental aspects of musical structure. Some ear training and aural skills. Students who have completed MUR 101 should NOT register for MUR 110.

Department: Music
Course: MUR 111
Title: Theory I **Class Size:** 25
Prerequisites: MUR 101 or MUR 110, or permission of instructor (placement test)
Exams: Mid-term, final

Description: The first in a four-course sequence. Deals with basic elements of harmony, voice-leading, and analysis. Part-writing in chorale style teaches elementary aspects of tonal theory. Prospective music majors should begin their theory requirement with this course. (Fall only)

Department: Music
Course: MUR 113
Title: Musicianship II **Class Size:** 10
Prerequisites: MUR 109 or permission of theory coordinator
Description: 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: Music
Course: MUR 114
Title: Musicianship III **Class Size:** 10
Prerequisites: MUR 113 or permission of theory coordinator
Description: Continuation of MUR 113. Introduction to harmonic dictation and polyphonic sight-singing. Concurrent enrollment in MUR 112 recommended. (1 credit)

Department: Music
Course: MUR 115
Title: Musicianship IV **Class Size:** 10
Prerequisites: MUR 114 or permission of theory coordinator
Description: Continuation of MUR 114. Concurrent enrollment in MUR 211 recommended. (1 credit)

Department: Music
Course: MUR 116
Title: Keyboard Skills I **Class Size:** 6
Instructor: Frank, B
Restrictions: Permission of instructor required
Description: 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.

Department: Music
Course: MUR 117
Title: Keyboard Skills II **Class Size:** 6
Instructor: Frank, B
Prerequisites: MUR 116 or permission of instructor.
Restrictions: Permission of instructor required
Description: Continuation of MUR 116. Students who complete this course will fulfill the piano proficiency requirement for the music major.

Department: Music
Course: MUR 118
Title: Beginning Piano for Non-Music Majors I **Class Size:** 6
Prerequisites: FOR RIVER CAMPUS STUDENTS ONLY
Description: An elective course for non-music majors from River Campus who have little or no previous keyboard instruction. The course will include technique, fundamental skills, and repertoire. (Fall only) (2 credits)

Department: Music
Course: MUR 121
Title: World Musics **Class Size:** 40
Instructor: Koskoff E
Description: Explores some of the world's major music traditions, including theater music from China and Japan, Indian and Indonesian classical music, ritual and ceremonial music from West Africa, Eastern Europe, and the United States. Course focuses on musical sound structures as well as social, political, and religious contexts for musical performances. Requirements include readings and a term-long project. No prerequisites.

Department: Music
Course: MUR 122
Title: History of Jazz
Cross-listed: AAS 122
Instructor: Burgett P **Class Size:** 60
Prerequisites: None
Exams: two exams
Coursework: reading and listening assignments; several brief written assignments
Description: This study of jazz, as an American musical art form, will be structured around the lives and music of jazz musicians, across a range of instrumental, vocal, and ensemble genres. Less a strictly chronological approach, this course focuses first on jazz titans, those individuals and musical groups distinguished by their seminal and permanent influences, either with long tenures such as Louis Armstrong, Miles Davis, or Coleman Hawkins or shorter but intense careers, such as Charlie Parker. Integrated with the jazz titans will be consideration of the music of other important jazz musicians whose contributions are essential to helping shape and inform the vast jazz landscape of the 20th century. Blues, ragtime, swing, bebop, cool, progressive, and free jazz are landmark terms that will help define that landscape. The influence of jazz on composers in European "classical" traditions will also be considered. And finally, study of the musical history

will be enhanced by considerations from sociological, linguistic, and philosophical perspectives. The instructional format includes class lectures and discussion and an intense emphasis on listening. This course is designed for students with little or no musical training; simple technical, musical vocabulary and concepts will be provided. In addition to reading and listening assignments, there will be several brief written assignments and two exams. No prerequisites. (Fall only)

Department: Music
Course: MUR 131
Title: Rock Music in the 1970s
Cross-listed: MHS 281
Instructor: Covach, J. **Class Size:** 250
Description: This course will survey rock music in the 1970s, paying special attention to ways in which 70s styles developed out of 60s styles. Artists considered will include Jimi Hendrix, Cream, Yes, Led Zeppelin, The Who, The Allman Brothers, The Eagles, Black Sabbath, The Cars, Tom Petty, The Sex Pistols, and Elvis Costello, plus many more. No previous musical training is required.

Department: Music
Course: MUR 135
Title: Sondheim & the Modern Musical Theater
Cross-listed: MHS 281
Instructor: Kowalke K **Class Size:** 25
Prerequisites: Ability to read music or strong background in the musical theater
Description: A survey of the modern musical theater through the works of Stephen Sondheim, from West Side Story through Passion. A brief history of the American musical from Show Boat through the mid-Fifties, then in-depth study of each of Sondheim's major Broadway musicals, including Gypsy, Forum, Anyone Can Whistle, Company, Follies, A Little Night Music, Sweeney Todd, Pacific Overtures, Into the Woods, Sunday in the Park with George, Assassins, Passion. Analysis of lyrics, musical forms and idioms, process of adaptation and production.

Department: Music
Course: MUR 139
Title: Judaism and its Music
Cross-listed: REL 217, JST 217
Instructor: Goldberg, G
Description: See description for REL 217

Department: Music
Course: MUR 150

Title: Women's Glee Club
Instructor: Conkling, S. **Class Size:** 40
Prerequisites: Audition
Restrictions: Permission of instructor required
Coursework: participation in all rehearsals, dress rehearsals, and concerts
Description: 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.

Department: Music
Course: MUR 151
Title: Men's Glee Club
Instructor: McAulliffe, H. **Class Size:** 40
Prerequisites: Audition
Coursework: Participation in all regular rehearsals, dress rehearsals, and concerts.
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.

Department: Music
Course: MUR 152
Title: Chamber Singers
Instructor: Georgieva, I. **Class Size:** 30
Prerequisites: Audition
Restrictions: Permission of instructor required
Coursework: Participate in all regular rehearsals, dress rehearsals, and concerts
Description: 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 performing Renaissance motets. All members of the undergraduate and graduate student body are welcome to audition for the ensemble. Auditions are held every semester.

Department: Music
Course: MUR 153
Title: Symphony Orchestra
Instructor: Harman D **Class Size:** 100
Prerequisites: Limited number of players. Admission by audition only.
Coursework: One rehearsal per week; individual practice; at least two concerts each semester

Description: URSO (University of Rochester Symphony Orchestra) is a university-civic orchestra whose members are selected from both 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/urso/index.html>.

Department: Music
Course: MUR 154
Title: Chamber Orchestra
Instructor: Harman D **Class Size:** 40
Prerequisites: Limited number of players. Admission by audition only.
Coursework: Two rehearsals per week; individual practice. At least four concerts per academic year. Also, off-campus performances in local schools. Some touring (the orchestra has toured to Italy, Jamaica, Cayman Islands, Montreal, and Cleveland).
Description: 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: <http://www.rochester.edu/College/MUR/ensembles/urso/index.html>.

Department: Music
Course: MUR 155
Title: Chamber Ensembles
Instructor: Harman D **Class Size:** 20
Prerequisites: Advanced accomplishment on an instrument or voice; permission of the coordinator (an audition may be required).
Exams: At least once concert appearance each semester
Coursework: 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).
Description: 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: Music
Course: MUR 156

Title: Wind Symphony
Instructor: Tiberio, W **Class Size:** 70
Prerequisites: Admission by audition only
Restrictions: Permission of instructor required
Coursework: One rehearsal per week; individual practice. At least four concerts per academic year. May also be some off-campus performances locally and on tour.
Description: 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: Music
Course: MUR 157
Title: Jazz Ensemble
Instructor: Tiberio, W. **Class Size:** 17
Prerequisites: Audition
Coursework: Rehearsals (2 per week), dress rehearsals, concerts
Description: 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: Music
Course: MUR 158
Title: Gospel Choir
Instructor: Holmes, J **Class Size:** 25
Prerequisites: Strong sense of rhythm and pitch
Coursework: 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.
Description: 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: Music
Course: MUR 159
Title: Gamelan Ensemble
Cross-listed: 6ENS 215
Instructor: Alajaji, S.
Description: See course description for 6ENS 215

Department: Music
Course: MUR 160
Title: Advanced Piano Study

Instructor: Mihailovich, Z **Class Size:** 5
Prerequisites: Audition
Restrictions: Permission of instructor required
Description: Weekly one-hour private studio instruction, comparable to ESM's PA 160, with occasional master classes, group workshops and coaching. Course is designed for advanced students to develop their abilities for piano performance by learning new repertoire, improving piano skills/technique and learning how to practice efficiently. Repertoire will be selected based on individual student's level and will include pieces of different styles and characters.

Department: Music
Course: MUR 201
Title: Basic Jazz Theory & Improv I **Class Size:** 10
Prerequisites: MUR 111 or permission of instructor
Description: Rudiments of jazz, including chord and scale spellings, chord/scale relationships, jazz/pop chord symbol nomenclature, basic forms, chord substitutions, piano voicing; strong emphasis on ear training and vocalization and transcription from records of jazz solos. (Fall only) (2 credits)

Department: Music
Course: MUR 211
Title: Theory III **Class Size:** 20
Prerequisites: MUR 112
Exams: Mid-term, finals
Description: Continuation of MUR 112. Focuses on analysis of large forms, such as sonata, rondo, and song forms. Includes advanced study of chromatic harmony and modulation to remote keys. (Fall only)

Department: Music
Course: MUR 221
Title: History of Western Music to 1600
Instructor: Meconi, H. **Class Size:** 40
Prerequisites: MUR 112
Coursework: 4 exams, research paper, miscellaneous assignments
Description: Survey of Western classical music to 1600, including investigation of style, genre, transmission, contemporary theory, patronage, cultural context and meaning, etc. Workshops deal with topics such as transcription and performance practice. (Fall only, offered in alternate years) (5 credits)

Naval Science

Department: Naval Science
Course: NAV 093

Title: Introduction to Naval Science
Instructor: White, John LT, USN **Class Size:** 35
Exams: 3 Exams, Various quizzes
Description: An introduction to the U.S. Navy, including organization, administration, customs, careers, warfare platforms and basic leadership fundamentals. Students are also introduced to joint warfare and national military strategy. Current world events are discussed as applicable.

Department: Naval Science
Course: NAV 094
Title: Ship Systems I (Engineering) **Class Size:** 30
Exams: 2 exams; quizzes
Description: This course is a detailed study of ship characteristics and types including ship design, hydrodynamic forces, stability, compartmentation, propulsion, electrical and auxiliary systems, interior communications, ship control, and damage control. Included are basic concepts and theory and design of steam, gas turbine, diesel and nuclear propulsion.

Department: Naval Science
Course: NAV 222
Title: Navigation II
Instructor: Shuma, Andrew, CDR, USN **Class Size:** 30
Prerequisites: None
Coursework: This course further develops knowledge and practical skills learned in Navigation I (NAV 098). It is a general
Description: This course further develops knowledge and practical skills learned in Navigation I (NAV 098). It is a general introduction to Naval Operations at sea and will cover topics in four broad sections including: 1) Advanced Navigation; charts, maneuvering board, formation sailing, nautical rules of the road and international laws of the seas; 2) Communications security, radio procedures, tactical communications and maneuvering; 3) Evolutions Operations shipboard watch-standing, ship-handling evolutions; 4) Naval Doctrine and Joint/Combined Operations. This class will prepare midshipmen for a first tour in the active surface ship fleet.

Department: Naval Science
Course: NAV 265
Title: Leadership and Management
Instructor: Parmiter, Thomas, CAPT, USMC **Class Size:** 35
Exams: 2 exams
Coursework: 1 research project 1 short essay
Description: This course is designed to arm the student with an understanding of the fundamental theoretical concepts of leadership

management, and to give students a set of practical leadership tools that can be derived from the theoretical concepts.

Neuroscience

Department: Neuroscience
Course: NSC 201
Title: Basic Neurobiology
Cross-listed: BCS 240
Instructor: Nordeen, E. ,O'Neill, W.,Kellogg, C. **Class Size:** 60
Prerequisites: BIO 110 or BIO 112 AND BIO 111 with 111L or BIO 113 with 111L

Exams: 4-5 mid-term exams and a cumulative final
Coursework: Lectures and two (4-5 page) papers. There is an associated laboratory for students intending to concentrate in Neuroscience and/or take the spring Lab in Neurobiology, NSC/BCS 203.
Description: Explores fundamental concepts of neural organization and function. Covers gross and cellular neuroanatomy, neuronal cell biology, the electrophysiology of neurons and synapses, neurochemistry, spinal circuitry, sensory and motor systems, and higher functions including learning and memory. Includes labs on gross anatomy of the brain and computer simulation of neuronal electrophysiology.

Department: Neuroscience
Course: NSC 243
Title: Neurochemical Foundations of Behavior
Cross-listed: BCS 243
Instructor: Kellogg, C. **Class Size:** 20
Prerequisites: NSC 201 or equivalent background; biochemistry recommended.
Exams: 3 exams, a take home final.
Coursework: Lectures, problem sets/data analysis; 1 paper.
Description: Introduces the field of neurochemistry with an emphasis on cellular and molecular neurochemistry. Topics range from study of neurochemical mechanisms that underlie normal neural function to discussion of behavioral disturbances that result from neurochemical abnormalities. Considers neurochemical mechanisms of adaptive behavior, learning and memory, behavioral disorders, gender differences, and drug seeking behavior.

Department: Neuroscience
Course: NSC 246
Title: The Biology of Mental Disorders
Cross-listed: BCS/PSY 246
Instructor: Kellogg, C., Como, P. **Class Size:** 40
Prerequisites: BCS 110 and BIO 110 (or equivalent), or NSC 201.

Exams: 5 exams, a combination of take-home and in-class
Description: Please see BCS 246 for the course description.

Department: Neuroscience
Course: NSC 301
Title: Senior Seminar in Neuroscience
Instructor: Holtzman, D. **Class Size:** 6-12
Prerequisites: Senior Neuroscience concentrators.
Restrictions: Open only to senior majors or by permission of instructor
Exams: Oral and written reports, but no formal examinations
Coursework: Oral and written reports
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.

Philosophy

Department: Philosophy
Course: PHL 101
Title: Introduction to Philosophy **Class Size:** 100
Exams: Three in-class short essay tests
Description: The course is an introductory investigation of a few main philosophical topics. Potential topics include the nature of free action, personal identity, the existence of a supreme being, and the possibility of knowledge.

Department: Philosophy
Course: PHL 102
Title: Ethics
Instructor: Conee, E. **Class Size:** 100
Exams: Three in class tests, not cumulative final
Description: 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 functions 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.

Department: Philosophy
Course: PHL 103A
Title: Moral Problems

Instructor: Curren, R. **Class Size:** 100
Coursework: For each topic the instructor will assign readings and cases to be analyzed and discussed.
Description: In this course we examine and discuss contemporary moral issues such as abortion, the death penalty, gay marriage, terrorism and civil liberties, starvation, and environmental change. We will learn to think about such issues analytically and with an eye to the deeper moral concepts and principles at stake, as well as the kinds of decisions individuals must make. 103A is not a prerequisite for 103B.

Department: Philosophy
Course: PHL 105
Title: Reason and Argument
Coursework: Three quizzes, frequent short homework assignments, and a final paper.
Description: Arguments are used both to try to persuade people and to try to establish the truth about a topic. In this course we will examine these different uses of arguments and then examine in detail the criteria for assessing arguments. We will then develop a method for identifying, interpreting, and evaluating arguments of the sort you found in speeches, newspaper editorials, letters to the editor, magazine articles, and scientific reports. The final project for the course will require applying this method to arguments about a significant contemporary issue.

Department: Philosophy
Course: PHL 110
Title: Introductory Logic **Class Size:** 30
Exams: Three mid-terms and a final exam.
Coursework: Weekly exercise assignments.
Description: Philosophy 110 is a first course in symbolic logic through first order quantification theory. It treats deductive inference through the mechanism of an artificial language; the language is rigorously defined, and students learn to translate English arguments into this artificial 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: Philosophy
Course: PHL 111
Title: Philosophy of Religion
Cross-listed: REL 111
Instructor: Wierenga, E. **Class Size:** 30
Description: See Religion and Classics, REL 111.

Department: Philosophy

Course: PHL 116
Title: Philosophy, History, and Practice of Non-violence
Instructor: Holmes, R. **Class Size:** 100
Exams: None
Coursework: Several papers and a journal.
Description: This course will study the origins and historical development of nonviolence, its 20th century manifestations, particularly in the works of Gandhi and Martin Luther King, Jr., and its prospects for the future in interpersonal, social, and international affairs. The moral assessment of nonviolence will be of paramount concern. There will be extensive class discussion and an emphasis on independent thought and research. Text: "Nonviolence in Theory and Practice."

Department: Philosophy
Course: PHL 141
Title: Aesthetics
Cross-listed: AH 219
Instructor: Meerbote, R. **Class Size:** 20
Exams: There may be a final exam. There will be several papers.
Description: What makes a situation aesthetic? What are aesthetic properties and how do we know some objects have them? What are aesthetic values and how do we justify our value judgments? We will examine historical answers to these questions. Among the views to be studied are those of Aristotle, Shaftesbury, Hutcheson, Burke, Hume, and Kant.

Department: Philosophy
Course: PHL 201
Title: History of Ancient Philosophy
Instructor: Modrak, D. **Class Size:** 30
Exams: Three examinations, including a final exam.
Description: Survey of the origins of Western philosophy. The course begins with the Presocratics and ends six centuries later with the Hellenistic philosophers. The great philosophers of the Classical period, Socrates, Plato, Aristotle, are studied in detail.

Department: Philosophy
Course: PHL 224
Title: History of Ethics
Cross-listed: PHL 224 W, PHL 424
Instructor: Holmes, R.
Exams: 3 or 4 exams.
Coursework: Possibly one paper.
Description: A study of the theoretical thinking about ethics throughout history. Some attention to Eastern thought (e.g., Taoism, early Buddhism, Hinduism, and more recently, Gandhi's philosophy),

but primary emphasis upon Western figures, including Socrates, Plato, Aristotle, Augustine, Aquinas, Hume, Kant, Mill, Nietzsche.

Department: Philosophy
Course: PHL 226
Title: Philosophy of Law
Cross-listed: PHL 226W, PHL 426
Instructor: Bennett, J. **Class Size:** 40
Prerequisites: One previous course in philosophy.
Description: The course will discuss philosophical issues in various particular areas of law, including criminal law, contracts, constitutional law, and the theory of legal interpretation. Readings will be from recent or contemporary sources. Topics may include problems about criminal attempts, the unconscionability doctrine in contract law, the alleged tort of wrongful life, problems about terrorism and torture, and problems about legal interpretation. Written work will include two papers, mid-term and final exams, and five on-line quizzes. Regular class attendance is expected.

Department: Philosophy
Course: PHL 228
Title: Public Health Ethics
Instructor: Dees, R. **Class Size:** 30
Prerequisites: One previous course in philosophy
Coursework: Three papers, weekly responses, class participation.
Description: Most health care ethics focuses on the individual decisions about health care, but many ethical questions have implications for society at large. The demands that individual health decisions make on the system may create collective problems, and conversely, the needs of society may limit the freedoms that individuals think they should have. Public health ethics then, lie at the intersection of medicine, political philosophy, and public policy. This course will examine the values of health, social needs, and freedom through a systematic examination of situations in which these conflicts arise.

Department: Philosophy
Course: PHL 243
Title: Theory of Knowledge
Cross-listed: PHL 243/PHL 443
Instructor: Conee, E. **Class Size:** 30
Prerequisites: One previous course in philosophy.
Exams: Two short-essay exams and one short-to-medium length paper.
Description: People often claim to know various things to be true. Science is said to advance our knowledge and there is, it seems, a vast body of common sense knowledge about a wide variety of topics.

There are several philosophical questions that will be the subject matter of this course. These questions include: 1) What is knowledge? 2) Do people really know anything? 3) What makes a belief justified or rational? Readings will be from contemporary philosophical sources.

Department: Philosophy
Course: PHL 244
Title: Philosophy of Mind
Cross-listed: PHL 244/PHL 244W/PHL 444
Instructor: Weslake, B. **Class Size:**
Prerequisites: One previous course in philosophy.
Exams: None
Coursework: Two papers and one presentation.
Description: This course is an overview of the recent history of philosophy of mind, focusing on the relationship between the mind and the physical world. The aim is to trace through some of the central debates in this history, and to assess where we stand today. Topics covered include the question of how to formulate physicalism about the mind; an examination of behaviorism, the identity theory, and functionalist theories of the mind; the prospects for integrating consciousness and mental content within a physicalist worldview; and the problem of mental causation. This course may be taken for upper level writing credit.

Department: Philosophy
Course: PHL 265
Title: Selected Topics in Ancient Philosophy
Cross-listed: PHL 265W, PHL 465
Instructor: Modrak, D. **Class Size:** 25
Prerequisites: PHL 201 or permission of instructor
Exams: One mid-term exam.
Coursework: Final research paper, two short papers on assigned topics, and class participation.
Description: Foundations of Ancient Greek philosophy from Presocratic to Hellenistic philosophers. Covers ancient Greek ethics, metaphysics and epistemology, and philosophy of mind. Special attention to Plato and Aristotle. This course may be taken for upper-level writing credit.

Department: Philosophy
Course: PHL 267
Title: British Empiricism
Cross-listed: PHL 467
Instructor: Meerbote, R.
Prerequisites: PHL 202
Exams: There may be a final exam.

Coursework: Several papers
Description: The course examines the British Empiricist School's views on the nature of induction and empirical knowledge. Our readings will be drawn from the works of Francis Bacon, John Locke, and David Hume. There will be both lectures and class discussions.

Department: Philosophy
Course: PHL 348
Title: Free Will **Class Size:** 15
Prerequisites: One previous course in philosophy.
Description: This course will be an investigation of proposed answers to the classical philosophical issues concerning free will. These questions include: What is free will? What is a free action? Is free will compatible with determinism? Is determinism compatible with moral responsibility? We will also examine the relationships between accounts of free will and solutions to problems in areas like ethics and religion. Readings will be from both contemporary and historical philosophical sources.

Physics and Astronomy

Department: Physics and Astronomy
Course: PHY 100
Title: The Nature of the Physical World
Instructor: Douglass, D
Exams: Two in-class exams and one final
Coursework: Weekly homework assignments will be given.
Description: 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: Physics and Astronomy
Course: PHY 103
Title: Physics of Music
Instructor: Orr, L. **Class Size:** 20
Prerequisites: This will satisfy a Group III (Natural Science) requirement. A strong interest in music desirable.
Description: A study of the physical basis of musical phenomena. Theories of musical instruments, room acoustics, and special topics selected

by the class and instructor are discussed and demonstrated. Two lectures and one laboratory per week. Half of the laboratories are devoted to individual student projects, often involving analysis of student instruments or of room acoustics. The course is open to any student with a strong interest in science and music.

Department: Physics and Astronomy
Course: PHY 113
Title: General Physics I
Instructor: Bodek, A **Class Size:** 200
Prerequisites: MTH 141 or MTH 161 (may be taken concurrently)
Coursework: Five three-hour laboratories are required, as are weekly workshop or recitations. Workshop or recitation times are determined by the instructor.
Description: First course of a two-semester sequence suitable for students in the life sciences. Newtonian particle mechanics, Newton's laws and their applications to straight-line and circular motions, energy, linear momentum, angular momentum, harmonic motions, Kepler's laws, planetary and satellite motions. Students must register for a PHY-113 laboratory during course registration. Calculus used and introduced as needed. In addition to a Two 75-minute lectures, one approximate two-hour and forty-minute laboratory every other week and one workshop or recitation per week are required. This course is offered in both the fall and summer session I (A-6).

Department: Physics and Astronomy
Course: PHY 122
Title: Electricity and Magnetism
Instructor: Bodek, A **Class Size:** 125
Prerequisites: PHY 121, MTH 143, or MTH 162 (may be taken concurrently).
Coursework: Five three-hour laboratories are required, as are weekly workshop/recitations.
Description: Second semester of a three-course sequence for students intending to major in physics, other physical sciences and engineering. Coulomb's Law through Maxwell's equations; electrostatics, electrical potential; capacitors; electric fields in matter; current and circuits; magnetostatics; magnetic fields in matter; induction; A.C. circuits; electromagnetic waves. Students must register for PHY 122/142-Laboratory and workshop or recitation during course registration. In addition to Two 75-minute lectures each week, one approximate two-hour and forty-minute laboratory every other week is required. (Offered Fall, Summer session II) Summer courses offered during session I (B-6).

Department: Physics and Astronomy
Course: PHY 141
Title: Mechanics (Honors)
Instructor: Wolfs, F. **Class Size:** 75
Prerequisites: MTH 141, or 161, (maybe taken concurrently); prior knowledge of introductory calculus (simple integration and differentiation)
Exams: 3 Midterm Exams + 1 Final Exam
Coursework: Five three-hour laboratories are required, as are weekly workshop or recitations.
Description: First course for all students (PHY 141, 143, 142). Recommended for prospective departmental concentrators and other science or engineering students with a strong interest in physics and mathematics. Topics are the same as those in PHY 121, but in greater depth. Motion in one and two dimensions, Newton's laws, work and energy, conservation of energy, systems of particles, rotations, oscillations, gravity, and thermodynamics. Students must register for PHY 141 Laboratory and recitation 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 laboratory every other week are required.

Department: Physics and Astronomy
Course: PHY 142
Title: Electricity and Magnetism (Honors)
Instructor: Manly, S. **Class Size:** 40
Prerequisites: Phy 141 or performance at or above the B- level in PHY 121, MTH 162 or MTH 172 or the equivalent (may be taken concurrently)
Coursework: Five three-hour laboratories are required, as are weekly workshops or recitations.
Description: Second course of a three-semester (PHY 141, 143, 142) honors sequence, recommended for prospective departmental concentrators and other science or engineering students with a strong interest in physics and mathematics. Topics are the same as those of PHY 122 but in greater depth. These topics include Coulomb's Law through Maxwell's equations; electrostatics, electrical potential; capacitors; electric fields in matter; current and circuits; magnetostatics; magnetic fields in matter; induction; A.C. circuits; electromagnetic waves. Students are required to register for PHY 142/122 Laboratory and workshop or recitation at the time of course registration. In addition to Two 75-minute lectures each week, one workshop/recitation each week and one approximate two-hour and forty-minute laboratory every other week

are required.

Department: Physics and Astronomy
Course: PHY 181
Title: Mechanics Laboratory
Instructor: Mcfarland, K.
Prerequisites: For transfer students that have taken the equivalent of PHY 113 or PHY 121, but have not taken to laboratories.
Description: 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.

Department: Physics and Astronomy
Course: PHY 182
Title: Electricity & Magnetism Laboratory
Instructor: Mcfarland, K **Class Size:** 16
Prerequisites: For transfer students who have taken a course equivalent to PHY 122 but have not taken the laboratories.
Description: Laboratory experiments in electricity and magnetism, Coulomb's Law, electric fields, measurement of the absolute voltage and capacitance, electricity and magnetism of the electron, superconductivity and electric circuits. Not open to students who have taken PHY 122. Students must contact Laboratory Administrator at physlabs@pas.rochester.edu to signup for a laboratory.

Department: Physics and Astronomy
Course: PHY 217
Title: Electricity and Magnetism I
Instructor: Thorndike, E. **Class Size:** 20
Prerequisites: PHY 122 or 142; and MTH 281 (may be taken concurrently).
Description: Review of vector calculus; electrostatic field and potential; boundary value problems solved with orthogonal functions; the multipole expansion and dielectrics; the magnetic field and vector potential.

Department: Physics and Astronomy
Course: PHY 235W
Title: Classical Mechanics I
Instructor: Cline, D.
Prerequisites: MTH 281 or ME 201 (may be taken concurrently); Physics 121 or 141
Description: Mathematical introduction; review of elementary mechanics; central force problems; conservation theorems and applications; Fourier and Green's functions; variational calculus and Lagrange

multipliers; Lagrangian and Hamiltonian formulation of mechanics is introduced and applied; oscillations; normal mode theory; rigid body dynamics. The course is designed to satisfy part of the upper-level writing requirement.

Department: Physics and Astronomy
Course: PHY 243W
Title: Advanced Experimental Techniques I
Instructor: Howell, J.
Prerequisites: PHY 217, PHY 237 (may be taken concurrently).
Description: Students work in pairs and each team is expected to do three or four experiments from a variety of available setups such as Berry's phase with light, Universal chaos, lifetime of cosmic ray muons, optical pumping, electron diffraction's etc. This is a hands-on laboratory with most experiments under computer control. This course may also be taken as a two-credit, half semester course. Please see instructor for this option. This course can be used to satisfy part of the upper-level writing requirement.

Department: Physics and Astronomy
Course: PHY 244W
Title: Advanced Experimental Techniques II
Instructor: Howell, J
Prerequisites: PHY 243W, PHY 217, PHY 237 and MTH 164.
Description: A continuation of PHY 243W with greater emphasis on independent research and construction of more complicated instrumentation. Students work in pairs and each team is expected to do three or four experiments from a variety of available setups. This course can be used to satisfy part of the upper-level writing requirement

Department: Physics and Astronomy
Course: PHY 245W
Title: Advanced Experimental Techniques in Nuclear, Particle and Electron Spin Resonance
Instructor: Howell, J
Prerequisites: PHY 217, 237, and MTH 164 (may be taken concurrently).
Description: Similar to PHY 243W, except with experiments that have applications in the Medical Physics. The four experiments are: *of Muon *Spin Resonance/Magnetic Resonance Imaging *Hertz Experiment or Hall Effect *Spectroscopy (This course can be used to satisfy part of the upper-level writing requirement. (Cross-listed with PHY445)

Department: Physics & Astronomy
Course: PHY 245W

Title: Advanced Experiment in Nuclear, Particle, and Electron Spin Resonance

Instructor: Howell, J **Class Size:** 10

Prerequisites: PHY 217, 237, and MTH 164 (may be taken concurrently).

Description: Similar to PHY 243W, except with experiments that have applications in the Medical Physics. This course can be used to satisfy part of the upper-level writing requirement. (Cross-listed with PHY 445).

Department: Physics and Astronomy

Course: PHY 253

Title: Reading in Biological Physics

Cross-listed: PHY 252

Instructor: Gao, Y. **Class Size:** 3

Prerequisites: PHY 227, or 237 (or permission of instructor)

Restrictions: Permission of instructor required

Exams: Two 1 hour exams and a term paper.

Coursework: The course is graded on the basis of regular homework sets.

Description: This is a 1/2 semester course. 2 credits per 1/2 semester. Physical aspects of special topics in biology. The purpose of this course is to survey several important areas of biological and medical physics. Topics to be covered include properties of biological membranes, transport and signaling in cells and tissue, photosynthesis, magnetic resonance imaging, and physical methods in biology such as nuclear magnetic resonance, x-ray diffraction, and optical absorption and fluorescence spectroscopies. The material will be presented at the level of Russeu K. Hobbie`s, Intermediate Physics for Medicine and Biology.

Department: Physics and Astronomy

Course: PHY 254

Title: 20th Century Particle Physics

Instructor: Rajeev, S.

Prerequisites: PHY 237.

Description: This course is designed for physics majors interested in nuclear and particle physics. The course describes the properties of the nuclei and various models used to describe nuclear matter, including the liquid drop model, shell model, collective model, radioactivity, fission, and fusion. Properties of particle interactions with matter are covered, and used to describe the principles of detections used in nuclear and particle experiments. In addition, the principle of operation of various existing accelerators are discussed. Finally, the fundamental interactions of elementary particles and their constituents are reviewed, with emphasis on conservation of quantum numbers and symmetries observed in high-energy collisions.

Department: Physics & Astronomy

Course: PHY 276

Title: Medical Optics

Instructor: Berger

Prerequisites: PHY 227, 246, MTH 165 open to upper-level undergraduate with instructor permission.

Restrictions: Permission of instructor required

Description: Major topics are biomedical spectroscopy (absorption, fluorescence, Raman, and elastic scattering); propagation of photons in highly scattering media (such as tissue); techniques for high-resolution imaging in biological media: confocal imaging, multiphoton imaging, and optical coherence tomography. (Cross-listed with OPT476, Fall).

Department: Physics & Astronomy

Course: PHY 325

Title: Physics of Radiotherapy I

Instructor: Schell, M.

Restrictions: Permission of instructor required

Coursework: One lecture per week is presented along with assignments and three exams during the academic year.

Description: This 2-credit course includes directly and indirectly ionizing radiation use in radiation therapy causing biological damage in the normal tissue and cancer. Radiation delivery techniques are specifically designed and configured to target the neoplasm. The physics of radiation interactions with matter and the clinical use of radiation are presented in this course. The methods of radiation production, measurement of ionizing radiation, absorbed dose as well as the calculation of dose distributions and treatment-planning systems are presented for all radiation modalities. Radiological physics is covered to the extent necessary to explain the use of CT, MR, and PET images as implemented in the treatment planning process. Radiation protection and quality assurance are topics presented at the end of the academic year.(Cross-listed with PHY425). The course is restricted to Physics students who plan to get a Certificate in Biological or Medical Physics, or students are in the BS/MS 3-2 program (and plan to do an MS thesis in Medical Physics). (Course offered every other Fall, alternates with BPH490/PHY327/PHY427).

Department: Physics & Astronomy

Course: PHY 386

Title: Teaching Internship I, Pedagogy Training

Instructor: Manly

Restrictions: Permission of instructor required

Description: This course is designed for an undergraduate planning to be a Workshop Leader, Laboratory or Recitation Teaching Intern (TI), and 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 in group dynamics, learning theory, and science pedagogy. The TI teaches one workshop, laboratory, or recitation in the fall semester introductory physics courses: PHY 113, PHY 122, PHY 141 or PHY 142. 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 386 instructor. (Course similar to CAS 352). Note: Students are required in April or August, to attend a two-day rigorous training program. Students prepare and present short model recitation and are video taped for self-evaluation.

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
Course: AST 105
Title: Introduction to the Milky Way Galaxy
Instructor: Frank, A. **Class Size:** open
Prerequisites: High school math through intermediate algebra. No physics prerequisites.
Coursework: Mid-term and final exams and weekly homework.
Description: In this course we introduce students to our home galaxy, the Milky Way, and use the structure and contents of this normal galaxy to illustrate the origins of stars like the Sun, the origins of the chemical elements from which we are formed, and the evolution of galaxies through the life of the Universe. The emphasis in the presentation is on the descriptive astronomy and the physical principles describing the operation of the various celestial objects, with a minimum of mathematical detail. See

<http://astro.pas.rochester.edu> for more information. (Usually, alternates with AST 104 and AST 102)

Department: Physics and Astronomy
Course: AST 111
Title: Elementary Astronomy I
Instructor: Watson, D. **Class Size:** open
Prerequisites: High school physics, MTH 141 or MTH 161, may be taken concurrently.
Coursework: Laboratory required and included. Recitations available.
Description: An introductory survey of observational astronomy intended for physical science majors. Typical topics include: celestial coordinates and time, light detectors and measurement, introductions to celestial mechanics and planetary structure, properties of stars, stellar evolution, galactic structure, galaxies, cosmology. The course is open to freshmen. Laboratory included and required, recitations available.

Department: Physics and Astronomy -- Astronomy
Course: AST 231
Title: Gravitation and General Relativity
Instructor: Blackman, E.
Prerequisites: PHY 143 or 123, AST 111, 142, and MTH 171-174 or 161-165; at least concurrent enrollment of MTH 281.
Description: Beginner's course in the general theory of relativity and its application to astrophysical situations. We start with the metrics - the solutions to the Einstein field equation - for the three simplest spatial geometries, and apply these to astrophysical situations. We will discuss first the spherically-symmetric (Schwarzschild) solution as an introduction to spacetime warping in strong and weak gravity, and to the basic physics of black holes. Next we will introduce the axisymmetric (Kerr) solution that describes rotating black holes, discuss the connection of black holes and accretion disks, and use the emergent concepts to understand astronomical objects that contain BH-accretion disk combinations, such as X-ray binaries and active galactic nuclei. Finally we will consider the homogeneous and isotropic (Robertson-Walker) solution, and apply this metric in a discussion of cosmology and the large-scale structure of the Universe.

Political Science

Department: Political Science
Course: PSC 101
Title: Introduction to Comparative Politics
Instructor: Meguid, B.

Restrictions: 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 104
Title: Introduction to Political Philosophy
Instructor: Johnson, J.
Description: This course is most aptly called Thinking About Politics. It aims to examine a range of contemporary issues and to explore the political and philosophical conflicts and controversies that those issues raise. So, for example, we might examine the concepts of patriotism and explore the tensions that arise between it and such other concepts as democracy or freedom or dissent or security. Readings will be drawn both from contemporary sources and classic political thought.

Department: Political Science
Course: PSC 107
Title: Introduction to Positive Political Theory
Instructor: Primo, D.
Description: Why do we always hear about gridlock paralyzing the federal government? When politicians talk about what the people want or the public interest, what do they actually mean? Is there an electoral system that is best for a country or state? Is it ever rational to vote? These are some of the questions we will tackle in this course using positive political theory, a rigorous set of tools that will help you view politics in a new way and challenge the conventional wisdom in the process. Through examples drawn from all aspects of politics, from elections to lawmaking to regulation, as well as from everyday life, we will study the challenges of group decision making and the ways in which rules influence outcomes.

Department: Political Science
Course: PSC 108

Title: Introduction to Political Economy
Cross-listed: ECO 118
Instructor: Debs, A.
Description: How do political institutions affect economic growth? How do economic conditions affect political decisions? This course is an introduction to the history of thought and current debates in political economy. We review great texts in the history of political economy (by Adam Smith, Karl Marx, and others), present an introduction to the modern tools used in the field, and show their applications in the context of democratic and nondemocratic politics.

Department: Political Science
Course: PSC 200
Title: Applied Data Analysis
Instructor: Kayser, M.
Description: An introduction to the understanding of politics through data analysis. This course introduces students to the elementary theory underlying commonly used statistical methods and provides them with experience in hands-on data analysis in regular computer labs. No prior computer or statistical expertise is expected. PSC 200 satisfies the Techniques of Analysis requirement for undergraduate majors and minors in Political Science.

Department: Political Science
Course: PSC 202
Title: Argument in Political Science
Instructor: Gamm, G.
Restrictions: Permission of instructor required for freshmen
Description: Students generally take PSC 202 in their sophomore year, but the course is also open to juniors and seniors. The course introduces students to the questions, concepts, and analytical approaches of political scientists. This version of the course focuses on the tension between majority rule and minority rights in the American political tradition. Issues include tyranny of the majority, slavery, individual rights, civic engagement, parties and interest groups, international diplomacy, legislative organization, and representation. Readings are drawn from classic texts in American thought--the Declaration of Independence, "The Federalist," Tocqueville's "Democracy in America" --as well as from books and articles written by contemporary political scientists. Assignments include several short papers and a final exam.

Department: Political Science
Course: PSC 209
Title: Interest Groups in America

Cross-listed: PSC 209W (cap 7)
Instructor: Rothenberg, L.
Prerequisites: PSC 202 is suggested
Description: This course is designed to introduce the issues that concern political scientists (especially) and economists about interest groups in American politics. The goal of the course is to provide a better substantive understanding of interest groups specifically and the political system more generally. Foci include the historical development of the interest group system, the formation of organizations, the relationship between associations and formal political institutions, money and politics, and policy-specific case studies. Instruction is primarily through lectures, although class participation is strongly encouraged.

Department: Political Science
Course: PSC 213W
Title: The U.S. Congress
Instructor: Peress, M. **Class Size:** 20
Description: This course offers an overview of the legislative branch of the United States government. We will discuss the electoral process, the nature of representation, legislative organization, the committee system, floor procedure, congressional parties, and inter-branch relations. We will examine theories of lawmaking and the impact of institutional and electoral rules on legislative behavior and outcomes.

Department: Political Science
Course: PSC 215
Title: American Elections
Cross-listed: PSC 215W (cap 10)
Instructor: Powell, L.
Description: This semester, special attention will be paid to the 2008 presidential and congressional elections. Campaign finance reform is also a timely topic. We will certainly examine the role of money in elections and strategies for regulating its use. Other issues of current concern will include party polarization in Congress, the decrease in the number of elected moderates, congressional redistricting, and term limits for elected officials.

Department: Political Science
Course: PSC 223
Title: Constitutional Structure and Rights
Instructor: Jackson, T.
Description: In this course, through the lens of the Constitution and Supreme Court cases, we examine the essential structure of the American legal system (both separation of powers at the federal level and the authority of, and relationship among, states and the federal

government), as well as the essential nature of civil rights of citizens vis--vis the political order. Topics covered include the nature of the Supreme Courts authority; separation of powers; federal limits on state powers; and individual rights, including economic rights, certain of the rights embraced by the First, Fourth, and Fifth Amendments, and due process and equal protection rights under the Fourteenth Amendment. The ability to read and discuss (as well as place in perspective and disagree with) Supreme Court opinions is an essential part of the course.

Department: Political Science
Course: PSC 225
Title: Race and Political Representation
Cross-listed: PSC 225W (cap 10), AAS 225
Instructor: Sinclair-Chapman, V. **Class Size:** cap 20
Prerequisites: PSC 202 or permission of instructor
Description: Please see PSC 225 for the course description.

Department: Political Science
Course: PSC 245 (cap 7)
Title: Aging and Public Policy
Cross-listed: PSC 245W
Instructor: Jacobs, B.
Description: The course will cover policies in such areas as social security, public assistance, health care, and social services for the elderly. The factual and philosophical assumptions underlying each policy will be examined, as will the division of responsibilities between public and private institutions and individuals. A variety of books, articles, and official publications that bear on the issues covered will be assigned.

Department: Political Science
Course: PSC 246
Title: Women in Politics
Cross-listed: WST 203F
Instructor: Bredes, N. **Class Size:** cap 18
Exams: final exam
Coursework: 15-page research paper and a required three-hour field-work experience with a political campaign, followed by an oral presentation about the experience

Description: This course will explore women's evolving roles in American politics. Topics include: a brief historical review of women's rights; women's roles in social movements; and women in electoral politics and as elected officials. Students will examine the quality of women's political leadership, comparing and contrasting it to the traditional gender-based models. Course

readings will be supplemented by video presentations and guest lectures.

Department: Political Science
Course: PSC 251
Title: New Nationalisms: East and West
Instructor: Hauser, E.
Description: Taking the post-communist decades as a point of departure, this course explores the roots and fates of different varieties of nationalism in Central Europe. We will start with the development of national identities in Europe in the 19th century and analyze the impact of World War II in crystallizing particular nationalisms. The main part of the course will focus on varieties of nationalism under communism, i.e. Romanian mythologies of Ceausescu, official anti-Semitism in Poland, and pan-Yugoslavianism contrasted to the Serbian, Croatian, and Muslim nationalisms. We will end with discussion of the recent rediscovery of old nationalisms and the so called "old hatreds." In addition to readings from different disciplines, the course uses documentaries and feature films as source materials. Grading based on: participation, one presentation, one short paper, and a final.

Department: Political Science
Course: PSC 254
Title: Political Economy of Europe
Instructor: Hishow, O.
Description: What are the challenges and prospects facing Europe today? The European Union is the realization of a bold vision: a large economic and political space with free movement of goods, services, capital and labor. Yet rigid markets, overregulation and reform resistance make it hard to adapt to globalization, the process of Eastern enlargement has created great divergence, and some economies in the West perform disappointingly. This course will examine the European Monetary Union, the Lisbon Strategy, and the challenges facing new entrants, with an eye toward analyzing the state of European integration. In examining Europe today, we will also consider the relation of Europe to Russia and compare the European model to the dynamic societies of China, India, and the United States. Special attention will be given to the economic rationale and political implementation

Department: Political Science
Course: PSC 256
Title: Theories of Comparative Politics
Instructor: Powell, G.B.

Description: Comparative politics is the study of politics within political systems. It seeks to describe and explain various features of politics in different countries. The course introduces theories in the field of comparative politics. We want to understand how the national and international environment, the political culture, the political institutions and the choices of citizens and leaders affect political performance. We explain such features as democratization, stability, competition, citizen influence, and policy outcomes as consequences of the environment, culture and institutions - and human choices in these contexts. Requirements include a midterm, a final exam, and an optional paper.

Department: Political Science
Course: PSC 270
Title: Mechanisms of International Relations
Cross-listed: PSC 270W (cap 7)
Instructor: Goemans, H.
Prerequisites: PSC 106 or other IR course
Description: The last ten years or so have seen a major revolution in the social sciences. Instead of trying to discover and test grand "covering laws" that have universal validity and tremendous scope (think Newton's gravity or Einstein's relativity), the social sciences are in the process of switching to more narrow and middle-range theories and explanations, often referred to as causal mechanisms. Mechanisms play a crucial role in this new conception of theory in the social sciences. In this course we will examine one particular mechanism each week and see how it has been applied in international political economy and/or security studies. Students will be introduced to formal reasoning in an informal manner. We will explore several substantive themes, such as the "democratic peace," ethnic conflict and international trade to illustrate the mechanisms and cumulative potential of this research approach.

Department: Political Science
Course: PSC 280
Title: The Politics of Delegation
Instructor: Jordan, S.
Description: Delegation is a pervasive feature of representative democracy. For instance, voters delegate public policy choices to elected politicians, elected politicians delegate choices of electoral strategy to party leaders, and elected politicians delegate the details of public policy to non-elected bureaucrats. This course introduces students to some of the big questions raised by political delegation, and to the basic tools that positive political theorists use to grapple with these questions. Finally, it surveys the use of these tools in a wide range of applications, including

Class Size: cap 30

elections and electoral accountability, legislative politics, bureaucratic politics, federalism, and the politics of economic policy.

Department: Political Science
Course: PSC 288
Title: Game Theory
Cross-listed: ECO 288
Instructor: Kalandrakis, A.
Description: Game theory, despite its frivolous-sounding name, gives us a unified approach to understanding social phenomena. It helps us understand not just the way people play games in the usual sense, like tic-tac-toe, chess or poker, but the way they behave in complex social situations as well. Examples of situations to which we will apply the theory include (but are not limited to): arms races, provision of public goods, competition between firms, electoral campaigns, voting, auctions, and bargaining. There are no formal prerequisites, but some aptitude for logical or mathematical reasoning is desirable.

Department: Political Science
Course: PSC 393
Title: Senior Honors Project
Instructor: Department Faculty
Restrictions: Permission of instructor required
Description: The Honors Project is a year-long research project supervised by a faculty member in the department and culminating in a written work. It begins, in most instances, with enrollment in the Junior Honors Seminar. Registration in PSC 393 requires approval of the faculty member who will supervise the honors project.

Department: Political Science
Course: PSC 394
Title: Local Law and Politics Internships
Instructor: Powell, L.
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.

Department: Political Science
Course: PSC 397
Title: 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 in Lattimore 206.

Psychology

Department: Psychology
Course: PSY 100
Title: Psychology Here & Now
Instructor: McAdam, D.
Restrictions: Permission of instructor required
Description: Psychology 100 is intended to acquaint Freshman coming with backgrounds in psychology with psychology as it is done here at the University of Rochester.

Department: Psychology
Course: PSY 101
Title: Introduction to Psychology
Instructor: McAdam, D.
Restrictions: Open to freshmen only
Description: The course will survey the various subdisciplines of psychology and their interrelationships. The application of the laws, theories and observation of psychology to the understanding of human behavior and mental life will be emphasized. There will be three weekly lectures and optional weekly recitations. A comprehensive text of about 600 pages will be required. The course grade will be based primarily on exam performance as measured against an absolute scale (i.e., grades will not be curved). There will also be opportunities to earn credit with short reports. Note: The Department of Psychology requires students in Psychology 101 participate for a few hours as subjects in ongoing research.

Class Size: Open

Department: Psychology
Course: PSY 101
Title: Introduction to Psychology

Description: 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: Psychology
Course: PSY 110
Title: Neural Foundations of Behavior
Cross-listed: BCS 110
Instructor: Pouget, A., Holtzman, D. **Class Size:** 200
Prerequisites: None
Description: Same as BCS 110. See description in Brain & Cognitive Sciences listing. The course satisfies one of the natural science courses required for the PSY concentration.

Department: Psychology
Course: PSY 151
Title: Perception and Action
Cross-listed: BCS/ CVS 151
Instructor: Williams, D. **Class Size:** 60
Prerequisites: PSY/BCS 110 or BCS 111 or PSY/BCS 112
Description: Same as BCS 151. See description in Brain & Cognitive Sciences listing.

Department: Psychology
Course: PSY 152
Title: Language and Psycholinguistics **Class Size:** 30
Prerequisites: PSY/BCS 110 OR 112
Description: Same as BCS 152. See Brain & Cognitive Sciences listing for description.

Department: Psychology
Course: PSY 171
Title: Social and Emotional Development **Class Size:** open
Description: See CSP 171. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 181
Title: Theories of Personality & Psychotherapy
Cross-listed: CSP 181
Instructor: Niemec, C. **Class Size:** open

Description: See CSP 181. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 183
Title: Animal Minds
Cross-listed: BCS 183
Instructor: Faber, B.
Prerequisites: None.
Description: Same as BCS 183. See description in Brain & Cognitive Sciences listing.

Department: Psychology
Course: PSY 205
Title: Lab in Development and Learning
Cross-listed: BCS 205
Instructor: Aslin, R. **Class Size:** 15
Prerequisites: BCS 200 (or approved course in statistics) and one of PSY 151, 152, 153, 172, or equivalent background with approval of instructor
Description: Same as BCS 205. See description in Brain & Cognitive Sciences listing.

Department: Psychology
Course: PSY 211
Title: Introduction to Statistical Methods in Psychology
Cross-listed: CSP 211
Description: See CSP 211. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 219W
Title: Research Methods of Psychology **Class Size:** 25
Cross-listed: CSP 219W
Prerequisites: PSY 101
Description: See CSP 219W. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 263
Title: Relationship Process and Emotions
Cross-listed: CSP 263
Instructor: Reis, H. **Class Size:** open
Description: See CSP 263. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 264

Title: Industrial and Organizational Psychology
Cross-listed: CSP 264
Exams: 3 exams
Description: See CSP 264. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 267
Title: Psychology of Gender
Cross-listed: CSP 267
Description: See CSP 267. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 289
Title: Developmental Child Psychopathology
Cross-listed: CSP 289
Instructor: Davies, P.
Prerequisites: PSY 171
Description: See CSP 289. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 301W
Title: Teaching Psychology
Instructor: McAdam, D.
Restrictions: Permission of instructor required
Description: See CSP 301W. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 310W
Title: Honors Research
Cross-listed: CSP 310W
Instructor: Klorman, R.
Restrictions: Permission of instructor required
Description: See CSP 310W. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 351
Title: Research in Developmental Neuropsychology
Instructor: Bennetto, L.
Prerequisites: Same as CSP 351
Restrictions: Permission of instructor required
Description: Same as CSP 351

Department: Psychology
Course: PSY 353
Title: Research in Children's Social Development
Instructor: McDowell, D.
Restrictions: Permission of instructor required
Description: Same as CSP 353. See Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY368W
Title: Seminar in Humanistic Psychology
Cross-listed: CSP 368W
Instructor: Deci, E.
Restrictions: Permission of instructor required
Description: See as CSP 368W. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 373
Title: Exploring Research in Social Psychology
Instructor: Elliot, A.
Restrictions: Permission of instructor required
Description: See CSP 373. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 377
Title: Exploring Research in Family Psychology I
Cross-listed: CSP 377
Instructor: Davies, P.
Description: See CSP 377. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 383
Title: Moral Development
Instructor: Smetana, J. **Class Size:** open
Description: See CSP 383. Same as Clinical and Social Sciences in Psychology course description listing.

Department: Psychology
Course: PSY 384
Title: Practicum in Developmental Disabilities
Cross-listed: CSP 384
Instructor: Bennetto, L.
Restrictions: Permission of instructor required

Description: See CSP 384. Same as Clinical and Social Sciences in Psychology course description listing.

Religion & Classics

Department: Religion & Classics
Course: REL 101
Title: Introduction to the Old Testament
Cross-listed: JST 106
Instructor: Merideth, A.
Description: In this course, we will examine the texts of the Hebrew Bible in their social, historical, and religious contexts. We will read major biblical books and examine their major themes against the background of Ancient Near Eastern culture. We will approach the texts of the Hebrew Bible as we would any other historical documents. Students will be exposed to the methods of modern biblical scholarship as well. No previous knowledge of the Hebrew Bible or of Judaism is presupposed. Requirements for the course include one paper analyzing a biblical text, a midterm quiz, and a final exam. Upper-level writing credit available (REL 101W).

Department: Religion & Classics
Course: REL 103
Title: History of Judaism
Cross-listed: JST 203
Instructor: Rubel, N.
Description: This course will provide an overview of Jewish history, texts, traditions, practices, and beliefs, and will emphasize Judaism as a living tradition, one which is subject to both continuity and change among its practitioners.

Department: Religion & Classics
Course: REL 104
Title: History of Christianity
Instructor: Cadorette, C.
Exams: periodic quizzes, a mid-term and a final examination
Coursework: average of 60 pages' reading per week
Description: The purpose of this course is to explore the general development of Christianity throughout its twenty centuries of existence, paying special attention to the religious presuppositions behind Christianity and its complex relationship to its socio-cultural matrix. The course will focus on important moments in Christian history, including its inception as a Jewish religious movement set in motion by Jesus, its dissemination in the Greco-Roman world by Paul of Tarsus, its growth and triumph in the Roman Empire, the split between the Greek- and Latin-speaking

churches, medieval Catholicism, the Reformation and rise of Protestantism, Christianity and the modern world, and contemporary movements and tendencies within the Christian churches.

Department: Religion & Classics
Course: REL 105
Title: The Asian Search for Self
Instructor: Brooks, D.
Exams: Mid-term, final
Coursework: Term paper
Description: An introduction to the intellectual and religious history of India. We shall investigate particularly the ways in which early Vedism, classical Hinduism, Buddhism, and Jainism conceive of the cosmos, meaningful human existence and life's ultimate goals. Readings include original sources in translation, such as the Upanisads, the Bhagavadgita and Buddhist scriptures in both Mahayana and Nikaya-based traditions.

Department: Religion & Classics
Course: REL 111
Title: Philosophy of Religion
Cross-listed: PHL 111
Instructor: Wierenga, E.
Exams: Three 50-minute tests
Coursework: short paper (6-10 pages)
Description: Topics include the existence of God, the nature of God, and the relation of God to the world. We will examine traditional arguments for and against God's existence, we will consider divine attributes such as omnipotence and omniscience, and we will discuss such topics as miracles and the relation of religion and morality. Three lectures per week with opportunity for discussion. Text: Philosophy of Religion, ed., Louis Pojman.

Department: Religion & Classics
Course: REL 142
Title: The Ideas of the Greeks
Cross-listed: CLA 142
Instructor: Geier, A.
Exams: two essay exams, two papers
Description: A study of the major themes and ideas (literary, philosophical, religious, and historical) from Homer to Aristotle (e.g. excellence, fate, the gods, the soul, being, tragedy, comedy, Kosmos, logos, intellect, history, family, beauty, matter, nature, etc.) Lecture and discussion.

Department: Religion & Classics

Course: REL 148
Title: The Arabian Nights
Cross-listed: ARA 148/CLT 257A
Instructor: Beaumont, D.
Description: Please see ARA 148 for the course description.

Department: Religion & Classics
Course: REL 154
Title: Themes in American Religion
Instructor: Rubel, N.
Description: This course addresses the diversity and depth of religious practice in the United States. Taught thematically so that we may examine specific religious movements and questions in depth, attention will be paid to those religions generally conceived to be "traditional" in the U.S. as well as those widely perceived as "non-traditional." Themes considered include civil religion, millennialism, race and gender, and the dynamics of liberalism and conservatism.

Department: Religion & Classics
Course: REL 162W
Title: Mysticism
Instructor: Homerin, Th. E.
Description: This course will introduce and examine mystical experience and the quests for it. Ancient and modern views of the subject will be considered as well as mysticism's impact on religion, art, and society.

Department: Religion & Classics
Course: REL 167K
Title: Speaking Stones
Instructor: Homerin, T.E.
Description: This course will examine grave stones and funerary architecture in Rochester's historic Mt. Hope Cemetery. Students will be introduced to western funeral ritual and practice, with a particular focus on funerary architecture and cemeteries in the United States, and the place of graves and graveyards in popular fiction and culture. Then they will examine the iconography and epigraphy of graves and funerary monuments in terms of their function of forging symbolic connections among the living and the dead. Case studies will be drawn from Mt. Hope Cemetery, which will further serve to illuminate both Rochester's history, and American religious belief and practice.

Department: Religion & Classics
Course: REL 193Q
Cross-listed: HIS 197Q

Title: Religion & Society in Modern Europe
Instructor: Bakhmetyeva, T.
Description: Please see HIS 197Q for the course description.

Department: Religion & Classics
Course: REL 197Q
Title: Dante's Divine Comedy I
Cross-listed: REL 285/CLT 116Q/CLT 253C/IT 195Q/IT 220
Instructor: Stocchi, D.
Restrictions: Open to freshmen only
Description: Please see IT 220 for the course description.

Department: Religion and Classics
Course: REL 207
Title: Women in Early Christianity
Cross-listed: WST 291
Instructor: Merideth, A.
Description: In this seminar, we will examine ancient Christian sources from the first four centuries CE that focus on women's lives and women's religious experiences. Topics include: the debates over women's religious authority, the prominence of female martyrs, the relationship between women and heresy, virginity and sexual renunciation, the Christian family, forms of female asceticism and Christian holy women, and the role of women in the 'rise' of Christianity.

Department: Religion & Classics
Course: REL 217
Title: Judaism and Its Music
Cross-listed: JST 217, MUR 139
Instructor: Goldberg, G.
Description: This course surveys the development of Jewish Music -- the Music of Judaism and the Jewish People -- from earliest times until the present, relating its various phases and genres to their historical context. These will include the music of the Bible and Ancient Israel, musical foundations of the synagogue (cantillation, psalmody, the cantor), rabbinic attitudes towards music, the impact of Islam (philosophic discourse, magam and metrical poetry), music of Jewish mysticism, art music in Renaissance Italy, Hasidic music, music of the Jewish life cycle and non-synagogue (Modern Orthodox, Reform and Conservative Judaism) in Europe and the United States, the music of the Holocaust, Zionism and the State of Israel. The aim of the course is to reveal how music not only reflected, but also played a significant role, in shaping the character of Jewish historical, religious and cultural experience.

Department: Religion & Classics
Course: REL 235
Title: Religion and Society in Latin America
Instructor: Cadorette, C.
Exams: There will be a mid-term and final examination.
Coursework: Reading will average about 80 pages per week. Students may write short reflection papers or larger research essays in consultation with the instructor.

Description: Religion and Society in Latin America will explore the cultural and political relationship between religion and Latin American societies. The course will begin with an analysis of pre-Conquest religious systems and their on- going presence among indigenous peoples in Latin America, particularly in Mexico, Peru and Bolivia. Next we will analyze the relationship between Catholic Christianity in the colonial and post-colonial societies of the continent, focusing on the symbiotic relationship between church and state that emerged as the dominant pattern in Latin America. Finally, we will look at contemporary forms of religious practice in Latin America, including liberation theology, conservative Catholicism, and evangelical Protestantism in an attempt to grasp the nature of religious practice and its impact on society in modern-day Latin America.

Department: Religion and Classics
Course: REL 283
Title: The Culture of Zen
Cross-listed: JPN 233/CLT 246A/CLT 464A/HIS 277
Instructor: Pollack, D.
Description: Please see JPN 233 for the course description.

Department: Religion & Classics
Course: REL 285
Title: Dante's Divine Comedy I
Cross-listed: REL 197Q/CLT 116Q/CLT 253C/IT 195Q/IT 22
Instructor: Stocchi, D.
Description: Please see IT 220 for the course description.

Department: Religion & Classics
Course: REL 293W
Title: Theories of Religion
Instructor: Brooks, D.
Description: An investigation of important methodological contributions to the critical study of religion. The class will be conducted as a seminar. In class, papers and discussion will constitute the work of the course. One hundred and fifty pages of reading per week. Restricted to Religion majors and minors only.

Religion & Classics -- Arabic

Department: Religion & Classics -- Arabic
Course: ARA 101
Title: Elementary Arabic I
Instructor: Beaumont, C.
Exams: Weekly quizzes; final exam.
Description: An introduction to the written language of the Arab Middle East. Students learn the Arabic alphabet and begin the study of grammar and syntax. Class time is divided between lectures, drills, and reading texts. In addition to written exercises, it is expected that students will work on their reading skills outside of class.

Department: Religion & Classics -- Arabic
Course: ARA 103
Title: Intermediate Arabic
Instructor: Beaumont, C.
Prerequisites: 101 & 102 (ARA) or passing placement exam.
Exams: Quizzes every two weeks; midterm and final.
Description: Continue ARA 101 and ARA 102. The "weak" verb is introduced, which completes the basic grammar. Class-time is devoted to grammar, conversation, reading and drills.

Department: Religion & Classics -- Arabic
Course: ARA 148
Title: The Arabian Nights
Cross-listed: REL 148/CLT 257A
Instructor: Beaumont, D.
Description: The medieval Arabic fiction known as either The Arabian Nights or The 1001 Nights is a classic of world literature. Though names such as Shahrazad and Shahriyar, Aladdin, and Sindbad are well known, the real nature of The Nights is less well known. It is a fiction clearly intended for adults; its themes of sex, love, betrayal, revenge, money, power and violence are treated with great sophistication and humor. We discuss the major themes of The Nights--love and sex, comedy and adventure--that have given the stories their universal appeal and their timeless relevance. The readable English translation of Powys Mathers is used, and classes are mostly devoted to discussion. The written work consists of one short paper and a longer paper.

Department: Religion & Classics -- Arabic
Course: ARA 205
Title: Advanced Arabic Prose Seminar II
Instructor: Beaumont, D.

Description: This course continues Arabic 204. Students vocalize and translate modern Arabic prose texts for class. They compose short essays. The specific texts vary according to the students' interests and abilities. Vocabulary quizzes every two weeks. A final translation exam is usually take-home. The quizzes will be roughly 3/4 of your grade, 1/4 classroom performance.

Religion & Classics -- Classical Greek

Department: Religion & Classics -- Classical Greek
Course: CGR 101
Title: New Testament & Classical Greek I
Instructor: Argetsinger, K.
Description: This course provides an introduction to ancient Greek, the language used by classical Attic authors as well as the writers of the New Testament and other early Christian texts. We will work toward a mastery of forms and vocabulary, an understanding of syntax, and a habit of precise reading. Supplemental readings will be drawn from a broad range of ancient Greek literature. Attendance in recitation is required.

Department: Religion & Classics -- Classical Greek
Course: CGR 103
Title: Intermediate Greek
Instructor: Florence, M.
Description: This course offers an intensive review of Greek grammar combined with readings in Greek prose in order to strengthen the students knowledge of Classical Greek and improve translation skills. We will translate and discuss Xenophon's Memorabilia, a dialogue about Socrates.

Department: Religion & Classics -- Classical Greek
Course: CGR 211
Title: Xenophon
Instructor: Geier, A.
Description: Xenophon's recollections of Socrates. Translation and study of Xenophon's work about Socrates. A comparison with Plato's view of Socrates.

Religion & Classics -- Classical Studies

Department: Religion & Classics -- Classical Studies
Course: CLA 102
Title: Cultural History of Ancient Greece
Cross-listed: HIS 102
Description: In this course we will survey the unique military,

political and economic history of ancient Greece from the Bronze Age to the death of Alexander the Great. In addition, and more unusually, we will look at ancient Greece's rich cultural and social history. In this course we will survey the unique military, political, and economic history of ancient Greece from the Bronze Age to the death of Alexander the Great. In addition, and more unusually, we will look at ancient Greece's rich cultural and social history.

Department: Religion & Classics -- Classical Studies
Course: CLA 142
Title: The Ideas of the Greeks
Cross-listed: REL 142
Instructor: Geier, A.
Exams: two essay exams, two papers
Description: A study of the major themes and ideas (literary, philosophical, religious, and historical) from Homer to Aristotle (e.g. excellence, fate, the gods, the soul, being, tragedy, comedy, Kosmos, logos, intellect, history, family, beauty, matter, nature, etc.) Lecture and discussion.

Department: Religion & Classics -- Classical Studies
Course: CLA 210
Title: Roman World
Cross-listed: REL 210/HIS 213
Description: The course offers a comprehensive account of the history of Rome. It first deals with her humble beginnings as a small city-state in central Italy, continuing with the process of Roman hegemony in the Italian peninsula and the Mediterranean world. Lastly, the course ends with the times that led to the fall of the Roman empire in the west in AD 476. Overall, the student will be introduced to the analysis of written and archaeological sources in order to answer the basic question: how do we know about the Romans? Thus, the analysis of the evidence will be the foundation to discuss major topics of Roman civilization. For instance, an examination of the city of Pompeii will allow us to reconstruct the daily life of a wealthy Roman city. As regards written sources, Cicero's speeches and letters, for example, provides us with an unparalleled picture of the last years of the Roman republic.

Department: Religion & Classics -- Classical Studies
Course: CLA 213
Title: Roman Structures: Engineering in the Classical World
Cross-listed: ME 105
Instructor: Perucchio, R.
Restrictions: Special application required

Description: For course description, please see ME 105.

Department: Religion & Classics -- Classical Studies

Course: CLA 214

Title: The Ancient City

Description: For course description, please check on-line at a later date.

Religion & Classics -- Hebrew

Department: Religion & Classics -- Hebrew

Course: HEB 101

Title: Elementary Hebrew I

Cross-listed: JST 101

Exams: no final

Description: Introduction to the structure of modern Hebrew. Practice in speaking, reading and writing. Several exams and quizzes throughout the semester. No final. Textbook: The New Ivrit min Hhatchala (Hebrew from scratch) level 1/Shlomit Chayat, Sara Israeli and Hella Kobliner. Hebrew 101 may not be taken by anyone who has successfully completed Hebrew 102 or higher.

Department: Religion & Classics -- Hebrew

Course: HEB 103

Title: Intermediate Hebrew

Cross-listed: JST 103

Prerequisites: HEB 102 or equivalent

Description: Continuation of Hebrew 102 with emphasis on enhancing reading comprehension, writing and speaking skills. Students are expected to have good understanding in structure of Hebrew and familiarity with Hebrew verb forms. Several exams and quizzes throughout the semester. No final. Textbook: Lessons in Modern Hebrew, level 1/Edna Amir Coffin, and material from other sources (e.g. newspaper). Hebrew 103 may not be taken by anyone who has successfully completed Hebrew 204.

Religion & Classics -- Latin

Department: Religion & Classics -- Latin

Course: LAT 101

Title: Elementary Latin I

Instructor: Argetsinger, K.

Description: Come learn the language of Vergil, Cicero, and St. Augustine. Latin has been the western world's learned language for 2000 years and is the source for most of the scholarly and technical vocabulary of English. The elementary Latin sequence (LAT

101, LAT 102, LAT 103) is designed to get you reading authentic materials quickly. For Latin 101, no Latin background is required or assumed.

Department: Religion & Classics -- Latin

Course: LAT 103

Title: Intermediate Latin

Instructor: Argetsinger, K.

Prerequisites: Lat 102 or a minimum of 420 on the College Proficiency Exam, or permission of the instructor.

Description: This course, the third in the introductory sequence, consists of readings from a selection of Latin prose and poetry, with accompanying grammar review.

Department: Religion & Classics -- Latin

Course: LAT 211

Title: Horace

Instructor: Geier, A.

Description: Translation and study of selections from Horace's Odes, Epodes, ars poetica.

Department: Religion & Classics -- Latin

Course: LAT 250

Title: Latin Skills

Cross-listed: LAT 450

Instructor: Argetsinger, K.

Description: This course focuses on the development of listening, speaking, and writing skills for Latin students and prospective teachers. Topics to be covered include Oral Latin, Latin Prose Composition, Active Learning in the Latin Classroom, and Latin Curricula and Lesson Design.

Department: Religion & Classics -- Latin

Course: LAT 251

Title: Latin Prose Composition

Instructor: Argetsinger, K.

Description: Students will translate progressively more complex sentences and passages from English into Latin and will try their hand at free composition. Includes a thorough review of Latin syntax and idiom.

Department: Religion & Classics -- Latin

Course: LAT 450

Title: Latin Skills

Cross-listed: LAT 250

Instructor: Argetsinger, K.

Description: Please see LAT 250 for the course description.

Religion & Classics – Sanskrit

Department: Religion & Classics -- Sanskrit
Course: SKT 103
Title: Intermediate Sanskrit
Instructor: Brooks, D.
Description: This course will focus entirely upon translating Sanskrit texts into English, and will make use of the Lanman Reader, Whitney's Grammar, and Whitney's Root Book. Stories will be translated from the Mahabharata and the Hitopadesa. Previous exposure to Sanskrit (Sanskrit 101 and 102 or equivalent thereof) will be assumed.

Russian Studies – Please see Modern Languages & Cultures

Sociology

Department: Sociology
Course: SOC 101
Title: Introduction to Sociology
Instructor: Harper, D. **Class Size:** 50
Exams: Three midterms, Final Examination
Description: Content: For the student, the objectives of the course are: (1) to acquire a sociological perspective, (2) to develop a critical and questioning stance towards public pronouncements about social life. Sociology is the study of rule governed behavior (and, hence is the study of systems of morality), of conformity and deviance, of social inequality and of social conflict. METHOD OF INSTRUCTION: Lectures; some class discussion of reading. READINGS: No single textbook is assigned. Rather, six to eight research monographs and book length essays are assigned. Examples are Jared Diamond, Collapse (an examination of why societies fail), Seymour Lipset, American Exceptionalism (the uniqueness of American society), Barbara Ehrenreich. Bait and Switch, Jason DeParle, American Dream (on poverty and welfare), William James, Washington Square.

Department: Sociology
Course: SOC 205
Title: Microsociology
Instructor: Smith, T.
Exams: No exams, three term papers

Description: Microsociology gives students hands-on experience using theories to interpret ongoing small group processes. Weekly student meetings are videotaped, and the videotapes are subsequently studied with the professor. Students read widely from literature on small group processes, group psychotherapy, and social psychology. Weekly student discussions.

Department: Sociology
Course: SOC 206
Title: Advanced Microsociology
Instructor: Smith, T.
Prerequisites: SOC 205
Description: This course is limited to those students who have taken SOC 205 Microsociology. This course again focuses on group development; students will work at understanding themselves in social settings. New methods of observing and analyzing interaction will be introduced. Students will read further in the literature of small groups. Each self analytic group will analyze tapes from meetings of groups other than own.

Department: Sociology
Course: SOC 221
Title: Love, Friendship and Community
Cross-listed: ANT 214
Instructor: Smith, T.
Exams: None; Two written presentations; class presentation.
Coursework: Lectures at beginning of semester; class presentations and discussion in later part of semester.
Description: This course introduces students to a neurosociological perspective on strong interaction and strong personal ties--high frequency social dynamics marked by strong mutual coupling. Traditional subjects such as love, friendship, and community are examined in this new perspective, and the mainstream literature in sociology and social psychology is sampled in weekly readings. The course format in mixed: lectures at the beginning of the semester give way to increased class presentations and discussion. Grades are assigned on the basis of two written assignments and class presentations.

Statistics

Department: Statistics
Course: STT 201
Title: Introduction to Probability
Cross-listed: MTH 201
Prerequisites: MTH 162 or equivalent, MTH 164 recommended
Exams: 2-3 exams

Description: Please see MTH 201 for this course description.

Department: Statistics
Course: STT 211
Title: Applied Statistics for the Social Sciences I
Exams: 2 midterms and a final
Coursework: Lectures plus weekly recitation section meeting. Weekly homework.

Description: 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: Statistics
Course: STT 212 **Class Size:** 75-100
Title: Applied Statistics for the Biological & Physical Sciences I
Exams: Two mid-terms and a final
Coursework: 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: Statistics
Course: STT 213
Title: Elements of Probability and Statistics **Class Size:** 100
Prerequisites: MTH 141 or equivalent.
Exams: 2 mid-terms and a final exam
Coursework: Lectures plus weekly recitation section meeting. Weekly homework.

Description: Descriptive statistics; probability; binomial, Poisson, normal distributions; estimation of means, proportions, and their differences; confidence limits; tests of hypotheses; chi-square tests of association; introduction to regression analysis. Computing with Minitab. (MTH 165 was renumbered STT 213, eff. Fall 2003.)

Department: Statistics
Course: STT 221W **Class Size:** 15
Title: Sampling Techniques
Prerequisites: STT 211, STT 212 or STT 213, and 203 or equivalent.
Exams: Weekly assignments, 2 exams, & a final
Description: Simple random, stratified, systematic, and cluster sampling; estimation of the means, proportions, variance, and ratios of a finite population. Ratio and regression methods of estimation and the use of auxiliary information. The nonresponse problem.

Prerequisite: Familiarity with the concepts of expectation, variance, covariance and correlation.

Department: Statistics
Course: STT 226W **Class Size:** 20
Title: Introduction to Linear Models
Prerequisites: STT 212 or 213, and STT 203.
Exams: Two mid-terms & a final
Description: (2 credits; first half of the semester) Simple linear, multiple, and polynomial regression methods and applications; ordinary and generalized least squares, estimation, tests of hypotheses, and confidence intervals, and simultaneous inference, and computer packages. Computer programs including JMP and SAS.

Department: Statistics
Course: STT 277
Title: Introduction to Statistical Software
Cross-listed: STT 477
Instructor: Heckler, C. **Class Size:** 20
Prerequisites: STT 212 and either 216 or STT 226. Basic skills with the Windows XP operation system, a text edit or (such as Notepad), and Mi
Exams: Final
Description: STT-277 and the companion course STT-278 are an introduction to statistical computing using software specifically engineered for that purpose. It is strongly recommended that students register for both courses. STT-277 covers the elements of programming in R and SAS, and operation of the JMP graphical user interface. The student will learn how to get data into (and out of) these programs, execute fundamental statistical procedures, and write programs in R and SAS to document and automate analyses. (Course offered first half of the semester, 2 credits.)

Department: Statistics
Course: STT 278
Title: Methods of Data Analysis
Cross-listed: STT 478
Instructor: Heckler, C. **Class Size:** 20
Prerequisites: STT 277.
Exams: Final
Description: STT-278 explores the use of the software introduced in STT 277 to understand data from observational studies. The student will learn the philosophy, capabilities, and pitfalls of exploratory data analysis. Graphical methods will be emphasized, but numerically-oriented procedures such as linear models will be included where appropriate. Each student will analyze a real-life data set in

some depth and write a report (Course offered second half of the semester, 2 credits.)

Department: Statistics
Course: STT 391
Title: Independent Study in Statistics
Prerequisites: Consent of the advisor.
Coursework: Supervised reading arranged on an individual basis.

W. Allen Wallis Institute of Political Economy

Department: Political Economy
Course: PEC 575
Title: Theory of Voting and Elections
Cross-listed: ECO 575, PSC 575
Instructor: John Duggan
Description: The course takes up several foundational topics in theoretical political economy. It begins with the analysis of fundamental concepts used throughout the course: binary relations, preferences, and choice. We then study social choice theory, where we view collective decisions as arising from a social preference relation determined in some arbitrary way by the preferences of individuals, covering (among other things) Arrow's impossibility theorem, which informs us of inherent limitations on the rationality of collective decisions. We then change perspective, viewing collective decisions as outcomes of a game played by individual decision-makers. We will consider game-theoretic models of static elections, sequential voting, bargaining, and repeated elections, with a special focus on connections to social choice.

Writing Program

Department: Writing Program
Course: WRT 105
Title: Reasoning and Writing in the College **Class Size:** 15
Description: 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: Writing Program
Course: WRT 105E
Title: Reasoning and Writing in the College **Class Size:** 10
Restrictions: Permission of Department required
Description: 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: Women's Studies
Course: WRT 245
Title: Advanced Writing and Peer Tutoring
Cross-listed: ENG 285
Restrictions: Special application required

Instructor: Rossen-Knill, Deborah
Prerequisites: Fulfillment of the Primary Writing Requirement. Minimum GPA of 3.0.
Description: WRT 245/ENG 285 prepares selected sophomores, juniors and eligible freshmen for work as writing fellows. The course design reflects the kind of growth that is necessary for a strong, intuitive writer and speaker to become a successful reader, listener and responder in peer-tutoring situations. Through a great deal of writing and rewriting, critical reading of published essays and student work, and informal and formal speaking, students will develop a conscious understanding of themselves as communicators and become aware of the choices they make to reach their audience. Before tutoring on their own, students will observe College Writing Center consultants conducting sessions as part of a mentoring program. By the semester's end, students should be ready to take on their own hours as peer tutors.

Women's Studies

Department: Women's Studies
Course: WST 115
Title: Introduction to Medical Anthropology
Cross-listed: ANT 102
Instructor: Metcalf, L. **Class Size:** 30
Coursework: Lectures, discussions, readings, films
Description: Please see ANT 102 for the course description.

Department: Women's Studies
Course: WST 177
Title: Creative Middle Eastern Dance
Cross-listed: DAN 180
Instructor: K. Scott
Description: T/R 1830-2000 Spurrier Dance Studio 2.0 credits Please see DAN 180 for the course description.

Department: Women's Studies
Course: WST 203F
Title: Women in Politics
Cross-listed: PSC 246
Instructor: Bredes, N.
Exams: Midterm and final class exam
Coursework: 5-page paper analyzing a specific campaign and a 10-page research paper
Description: Fall 2008. Please see PSC 246 for the course description.

Department: Women's Studies
Course: WST 206

Title: Medieval Celtic Literature
Cross-listed: ENG 206
Instructor: S. Higley
Description: Please see ENG 206 for the course description.

Department: Women's Studies
Course: WST 206F
Title: Feminism, Gender, and Health
Cross-listed: HLS 206
Instructor: J. Lightweis-Goff **Class Size:** 25
Description: Spring 2008. Feminism, Gender, and Health considers how theories of gender, social organization, and biological sex shape the questions asked and explanations and interventions offered in the areas of health, disease, and well-being. We examine the effects of gender, social class, and race in mediating health effects, with particular emphasis on women's health. Some issues examined will include the life cycle and transitions, collective and individual trauma, access to health services, HIV/AIDS, reproductive health and longevity. THIS IS A WOMEN'S STUDIES FOUNDATION COURSE. CAP 25.

Department: Women's Studies
Course: WST 215
Title: Community, Earth, and Body
Cross-listed: DAN 214
Instructor: Hook, J.
Description: Spring 2008. Please see WST 215 for the course description.

Department: Women Studies
Course: WST 217
Title: Birth and Death: Anthropology of Vital Events
Cross-listed: ANT 218
Instructor: A. Carter
Restrictions: Permission of instructor required for freshmen
Coursework: Two hourly and one final exam; optional research paper
Description: Please see ANT 218 for the course description.

Department: Women's Studies
Course: WST 218
Title: Marriage, Family & Community in a Global Perspective
Cross-listed: ANT 244, AAS 248
Instructor: A. Emmett **Class Size:** 30
Description: Please see ANT 244 for the course description.

Department: Women's Studies
Course: WST 222
Title: Nineteenth-Century British Novel

Cross-listed:	ENG 222
Instructor:	Ablow, R.
Restrictions:	Permission of instructor required for undergraduates
Description:	(Formerly ENG 231) Why do so many 19th-century novels end with marriages? This course seeks to answer this question through the study of a wide variety of 19th-century novels. Key topics for the class will include (but will not be limited to) the relation between realism and idealism in the novel; the "woman" question and the changing English family; British imperialism and changing conceptions of ethnicity and race; the condition of the working classes; and the role of the writer in contemporary society. Authors for the course include: Austen, C. Brontë, Dickens, George Eliot, Wilde, Hardy, Ford.

Department: Women's Studies
Course: WST 291
Title: Women in Early Christianity
Cross-listed: REL 207
Instructor: Merideth, A.
Description: Please see REL 207 for the course description.

offering internships (Descriptions available in Lattimore 538)
 Afterimage, Alternatives for Battered Women, Center for Dispute Settlement, City Council of Rochester, Division of Human Rights, New York, Gay Alliance of Genesee Valley, Monroe County District Attorney's Office, Planned Parenthood, St. Joseph's Villa, Sojourner House, Susan B. Anthony House, TV Dinner/Metro Justice, Urban League of Rochester, Visual Studies Workshop (Media Center) (1-2 positions), Wheatley Branch Library, YWCA.

Department: Women's Studies
Course: WST 396
Title: Women's Studies Seminar
Restrictions: Not open to freshmen and sophomores
Coursework: Juniors and seniors only or prerequisite course in African American Literature, American Literature, or Women's Studies.
Description: This course will be announced at a later date. This course fulfills the requirement for WST 396 Women's Studies Seminar

Department: Women's Studies
Course: WST 397
Title: Independent Honors Thesis
Restrictions: Open only to senior majors or by permission of instructor
Description: Honors in Research recognizes the completion of a distinguished honors thesis, research paper of approximately 35 pages researched and written under the direction of a faculty advisor, and approved by the faculty advisor and a second reader. It is expected that this thesis will be based on research undertaken through WST 393H or WST 394H, and completed in WST 397.

Department: Women's Studies
Course: WST 394H
Title: Internship - Honors
Restrictions: Open only to senior majors or by permission of instructor
Description: Honors - see WST 397 Independent internship with substantial supervised research and written work in gender and women's studies. This research should be directed toward work in WST 397

School of Engineering and Applied Sciences

Biomedical Engineering

Department: Biomedical Engineering
Course: BME 101
Title: Intro to Biomedical Engineering
Instructor: Dalecki, D **Class Size:** 50
Prerequisites: permission of instructor if not freshman
Restrictions: Open only to freshmen & sophomores
Exams: 2 exams and a final project
Coursework: Includes weekly problem assignments
Description: An introductory overview of the multi-disciplinary field of biomedical engineering. Application of elementary engineering principles to the analysis of physiological systems. Includes basic introduction to the use of computers as tools for solving engineering problems. Course topics include biomechanics, cell and tissue engineering, biosignals and bioinstrumentation, medical imaging, medical optics and bioethics. Includes some guest lectures by biomedical engineering faculty. 4 Credits

Department: Biomedical Engineering
Course: BME 201
Title: Fundamentals of Biomechanics
Instructor: McGrath, J **Class Size:** 60
Prerequisites: MTH 161 and 162, BME 101, PHY 121
Exams: 3 one hour in class exams, 1 comprehensive exam
Coursework: Homework and examples will be taken from the fields of ergonomics, human movement and injury, and prosthetics and exercise equipment design. In an additional semester-long homework series students will perform a computational simulation
Description: This course teaches the elementary analysis of mechanical equilibrium and motion with extended applications to biology. Lectures present a traditional analysis of idealized particles and rigid bodies. Syllabus topics include force and moment balances, the analysis of frames, trusses and pulleys, the analysis of systems with friction, mass centers, area moments, and the linear and rotational kinetics and kinematics of rigid bodies. Weekly exercises apply these principles in non-biological problems in two and three dimensions. Weekly problems extend the application to biological problems ranging from human motion to the mechanics of cells. In an end-of-term project students use and extend a computational simulation of human motion written in the MATLAB programming language. 4 credits

Department: Biomedical Engineering
Course: BME 201L
Title: MATLAB for Bioengineering
Instructor: Carney, L **Class Size:** 50

Prerequisites: Co-requisite: BME 201
Exams: 1 mid-term and a final exam
Coursework: In-class assignments and occasional take-home assignments; final project
Description: Fundamentals of computer programming in MATLAB. Emphasis on programming basics, such as syntax, loop structures, logic, input/output, and graphics.

Department: Biomedical Engineering
Course: BME 221
Title: Biomedical Computation
Instructor: King, M **Class Size:** 45
Prerequisites: BME 201 and 201 L or permission of instructor
Exams: one midterm, a final exam, and a final project
Coursework: weekly programming assignments
Description: The application of numerical and statistical methods to model biological systems and interpret biological data, using the MATLAB programming language.

Department: Biomedical Engineering
Course: BME 260
Title: Quantitative Physiology with lab
Instructor: Seidman, S **Class Size:** 30
Prerequisites: ECE 113 or BME 210, or permission of instructor
Description: A quantitative, model-oriented approach to physiological systems is presented. Topics include: muscle and nerve tissue, the cardiovascular system, the respiratory system, the renal system, and a variety of neural systems. 4 credits

Department: Biomedical Engineering
Course: BME 283
Title: Biosolid Mechanics
Cross-listed: ME483, BPH483
Instructor: Lerner, A **Class Size:** 40
Prerequisites: ME 226, BME 201 & 201L or ME 120
Exams: Midterm, Final project
Coursework: 6-7 homework assignments
Description: Application of engineering mechanics to biological tissues including bone, soft tissue, cell membranes, and muscle. Realistic modeling of biological structures, including musculoskeletal joints and tissues. Investigations of the responses of biological tissues to mechanical factors. Experimental methods and material models.

Department: Biomedical Engineering
Course: BME 295
Title: BME Design Seminar

Instructor: Lerner, A, Seidman, S **Class Size:** 50
Prerequisites: math, science, and engineering courses appropriate for fourth-year students in BME
Restrictions: Open only to senior majors or by permission of instructor
Coursework: written memos, teamwork, design proposal, oral presentations
Description: Introduction to design of medical devices and instruments. Students are introduced to methods and strategies for creative design while considering ethical, economic, regulatory and safety issues. In addition to benchmarking existing devices, students prepare for a design project to be completed in the following semester. 2 credits

Department: Biomedical Engineering
Course: BME 453
Title: Advanced Biomedical Ultrasound
Instructor: McAleavey, S **Class Size:** 30
Prerequisites: BME 451 or permission of instructor
Description: This course investigates the imaging techniques applied in state-of-the-art ultrasound imaging and their theoretical bases. Topics include linear acoustic systems, spatial impulse responses, the k-space formulation, methods of acoustic field calculation, dynamic focusing and apodization, scattering, the statistics of acoustic speckle, speckle correlation, compounding techniques, phase aberration correction, velocity estimation, and flow imaging. A strong emphasis is placed on readings of original sources and student assignments and projects based on realistic acoustic simulations.

Department: Biomedical Engineering
Course: BME 483
Title: Biosolid Mechanics
Cross-listed: ME 483, BPH 483
Instructor: Lerner, A **Class Size:** 30
Prerequisites: ME 226, BME 201 or ME 120
Exams: Midterm, Final Project
Coursework: 6-7 homework assignments. Course assignments and projects are advanced in comparison to the undergraduate level course.
Description: Please see BME 283 for the course description.

Department: Biomedical Engineering
Course: BME 593
Title: Lab Rotations in BME
Instructor: Waugh, R
Description: 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

Chemical Engineering

Department: Chemical Engineering
Course: CHE 113
Title: Chemical Process Analysis
Instructor: Wu, JHD
Prerequisites: Freshman Chemistry, MTH 161- MTH 162, or permission of instructor
Restrictions: Open only to freshmen & sophomores
Exams: Three quizzes.
Coursework: Assignments: Problem sets, and textbook readings.
Description: Course Content and Method of Instruction: Lectures and discussion. Methodology and problem solving techniques in chemical engineering; the concepts of mass and energy conservation in both reacting and non-reacting chemical systems; the concept of equilibrium in chemical and physical systems and the basic principles of thermodynamics are presented; both steady state and transient behavior are discussed for some special systems. Not open to seniors 4-credits

Department: Chemical Engineering
Course: CHE 225
Title: Chemical Engineering Thermodynamics
Instructor: Yates,M
Prerequisites: Junior standing
Restrictions: Permission of instructor required
Exams: 3 exams
Coursework: Classroom discussions strongly encouraged. Problem sets and analysis-based project assignments are important components of the course.
Description: Lectures on the origin and use of the first and second laws of thermodynamics, followed by a discussion of equilibrium criteria. Thermodynamic descriptions of (real) gases and liquids are developed and applications of thermodynamics to phase and chemical equilibria complete the course. 4-credits

Department: Chemical Engineering
Course: CHE 244
Title: Heat and Mass Transfer
Instructor: Anthamatten, M **Class Size:**
Prerequisites: CHE 243, fluid mechanics, differential equations
Exams: Typically two or three hourly exams and a final
Coursework: Assignments: Weekly homework sets, a few open-ended problems or a design project of limited scope.
Description: A fundamental course in heat transfer processes and an introduction to mass transfer. Topics include equations of energy conservation, conduction, convection, radiation; equations for

chemical species conservation, diffusion, macroscopic balances. Emphasis on problem solving, especially for purposes of design. 4-credits

Department: Chemical Engineering
Course: CHE 255
Title: Laboratory in Chemical Engineering Processes
Instructor: Ebenhack, B,Olsen, T
Prerequisites: CHE 243,CHE 244,CHE 231,CHE 250
Exams: Three oral presentations per group per semester
Coursework: Exploratory experiments and preliminary experimental design, as well as oral and written reports are required. Weekly progress review meetings are also required.
Description: Operation and scale-up of chemical process equipment for chemical reaction and purification. Examination of the factors that affect performance in practice.Exploratory experiments and preliminary experimental design, as well as oral and written reports are required. 3-credits

Department: Chemical Engineering
Course: CHE 258
Title: Electrochemistry and Fuel Cells
Cross-listed: CHE 458
Instructor: Jorne, J. **Class Size:** 60
Restrictions: Permission of instructor required
Description: The course will concentrate on presenting the principles of electrochemistry and electrochemical engineering, and the design considerations for the development of fuel cells capable of satisfying the projected performance of an electric car. The course is expected to prepare you for the challenges of energy conversion and storage and the environment in the 21st century. 2-Credits

Department: Chemical Engineering
Course: CHE 259
Title: Transport Phenomena in Biological Systems
Instructor: Foster, David **Class Size:** 60
Prerequisites: CHE 243
Exams: In class quizzes and final exam
Coursework: Homework assignments and a technical paper or presentation are required
Description: This course will provide an overview of transport phenomena in biological systems that are critical to the function of all living organisms. The fundamental laws and equations of transport phenomena will be applied to topics including cellular, cardiovascular, respiratory, liver and kidney transport, blood flow

and rheology, and circulation in tissues and arteries. 4-Credits (alternate semesters)

Department: Chemical Engineering
Course: CHE 273
Title: Chemical Engineering Process Design
Instructor: Chimowitz, E
Prerequisites: Senior standing in CHE
Exams: 2 exams + design project
Description: The course will cover material related to the conception and design of chemical processes. Topics will include energy systems analysis, the attainability region approach for reactor network synthesis and the effects of statistical uncertainty on decision making when evaluating alternative designs. Modern techniques for stochastic simulation of random processes will also be studied. The use of computational software packages like MATHCAD and DESIGN II will be expected in doing many of the homework assignments. In addition to two examinations, a computer-oriented design project will be assigned involving the use of chemical engineering principles for the solution of a process flowsheet problem. A good back ground in computer programming is necessary since many of the course assignments make use of numerical techniques. 4-credits

Department: Chemical Engineering
Course: CHE 278
Title: Energy Alternatives Lab
Instructor: Ebenhack, B, Martinez, D
Restrictions: See course description for specific prerequisites required
Description: The students will be presented with issues and technical problems in developing a more sustainable energy mix for a variety of societal needs. They will conduct and design experiments which test various kinds of alternatives, including conservation technologies. The first few weeks will involve discussion of the issues and two or three common experiments for the entire class. One project will involve numerical modeling of a system The remainder of the course will involve extensive design and evaluation of a concept chosen by the student group. Open to Juniors and Seniors. Sophomores can register with permission of the instructor. 4-credits

Department: Chemical Engineering
Course: CHE 280
Title: Chemistry of Advanced Materials
Cross-listed: CHE 480, MSC 431
Instructor: Yang, H

Description: Preparation, structure, composition, and properties of advanced materials with emphasis on the underlying chemistry. Atomic structure and bonding of crystalline and amorphous solids and crystalline defect. Materials synthesis and processing by chemical and physical deposition methods. Focus on the relation of structure to properties of materials. Selected topics to illustrate the basic concepts and principles will include thin film materials, nanostructure/ nanoscale/ nanocomposite materials, and bulk materials. 4-credits

Department: Chemical Engineering
Course: CHE 282
Title: Processing of Microelectronic Devices
Cross-listed: CHE 482
Instructor: Jorne, J **Class Size:** 60
Description: An overview of processes used in the fabrication of microelectronic devices, with emphasis on chemical engineering principles and methods of analysis. Modeling and processing of microelectronic devices. Includes introduction to physics and technology of solid state devices grade silicon, microlithography, thermal processing, chemical vapor deposition, etching and ion implantation and damascene processing. 2-Credits

Department: Chemical Engineering
Course: CHE 286
Title: Poly Science & Engineering
Cross-listed: CHE 486, MSC 433
Instructor: Chen, S, **Class Size:** 30
Description: This course features the science and technology of synthetic macromolecules. Topics include polymerization reactions, structure and properties of semicrystalline and amorphous polymers, characterization of structure and properties, structure-property relationship in polymers, and applications of polymeric materials. 4-credits

Department: Chemical Engineering
Course: CHE 458
Title: Electrochemical Engineering and Fuel Cells
Cross-listed: CHE 258
Instructor: Jorne, J **Class Size:** 60
Description: Please see CHE 258 for the course description.

Department: Chemical Engineering
Course: CHE 480
Title: Chemistry of Advanced Materials
Cross-listed: CHE 280, MSC 431
Instructor: Yang, H. **Class Size:**

Description: Please see CHE280 for the course description.

Department: Chemical Engineering

Course: CHE 482

Title: Processing of Microelectronic Devices

Cross-listed: CHE 282

Instructor: Jorne, J **Class Size:** 60

Description: Please see CHE 282 for the course description.

Department: Chemical Engineering

Course: CHE 486

Title: Poly Science & Engineering

Cross-listed: CHE 286, MSC 433

Instructor: Chen,S **Class Size:** 30

Description: Please see CHE 286 for the course description.

Department: Chemical Engineering

Course: CHE 507

Title: Advanced Genetics

Cross-listed: GEN 507

Instructor: W. Li

Prerequisites: Prior background in Mendelian and molecular genetics

Description: See GEN 507

Electrical & Computer Engineering

Department: Electrical & Computer Engineering

Course: ECE 101

Title: Introduction to Electrical and Computer Engineering

Instructor: Mottley, J. **Class Size:** 40

Description: 2 Credit Hours, meets for 2.5 hours once a week. Project based course gives an overview of the principal areas of Electrical and Computer Engineering, and introduces some tools and practices of Engineering. Projects will include assembly of electronic devices and computer modeling and simulation

Department: Electrical & Computer Engineering

Course: ECE 111

Title: Introduction to Signals and Circuits

Instructor: Jones, T.B. **Class Size:** 50

Prerequisites: Concurrent registration in MTH 163 or 165 and PHY 122

Exams: 2 exams and a final

Coursework: Laboratory: Electrical measurement instruments and techniques.

Description: Analysis techniques for DC and AC circuits.

Department: Electrical & Computer Engineering

Course: ECE 112

Title: Logic Design

Instructor: Derefinko, V. **Class Size:** 60

Prerequisites: One semester of college mathematics. Ability to operate computers.

Exams: final exam

Coursework: Seven lab experiments and homework. One 4 week long project. Lab includes FPGA designs of various complexity.

Description: Fundamentals of digital logic design methodology including analysis, synthesis, optimization, simulation, and implementation. Multi-level combinational circuits, synchronous sequential circuits, and Finite State Machines. Programmable logic devices (PLD's), Computer Aided Design tools (CAD) and Very High Speed IC Hardware Description Language (VHDL) and schematic capture.

Department: Electrical & Computer Engineering

Course: ECE 140

Title: Introduction to Digital Music

Instructor: Velickik, G. **Class Size:** 30

Exams: mid-term and final exams

Description: Vibrations and musical sound from strings and pipes. Digitization of sound, digital recording, digital storage;Spectral analysis, digital filtering. Musical sound synthesis: additive synthesis, subtractive synthesis, physical modeling. MIDI and computer based interactive music. Laboratory. Taught alternate years.

Department: Electrical & Computer Engineering

Course: ECE 201

Title: Advanced Computer Architecture

Cross-listed: ECE401

Instructor: Huang, M. **Class Size:** 42

Prerequisites: ECE 200 or equivalent

Description: Instruction set architectures. Advanced pipelining techniques. Instruction level parallelism. Memory hierarchy design. Multiprocessing. Storage systems. Interconnection network.

Department: Electrical & Computer Engineering

Course: ECE 221

Title: Electronic Devices and Circuits

Instructor: Ignjatovic, Z. **Class Size:** 60

Prerequisites: ECE 113

Exams: 3

Description: Introduction to the physics and operation of semiconductor devices and to the design and analysis of basic electronic circuits. Semiconductor transport properties. P-n junction diodes and diode circuits. Bipolar junction transistors. Single- and multi- stage BJT amplifiers. Differential amplifiers. Small-signal

analysis, bias design, time and frequency response of BJT circuits. Laboratory.

Department: Electrical & Computer Engineering
Course: ECE 223
Title: Semiconductor Devices
Cross-listed: ECE 423 and MSC426
Instructor: Sobolewski, R. **Class Size:** 50
Prerequisites: ECE 221, ECE 230, and PHY 123 or instructor's approval
Exams: Midterm; library research/review project; presentation and written report
Coursework: 6 homework assignments; research/review project
Description: Review of modern solid state devices, their physics and principles of operation. Solid state physics fundamentals, free electrons, band theory, transport properties of semiconductors, tunneling, semiconductor junctions and translators. Compound and semi-magnetic semiconductors. Optoelectronic and ultrafast devices.

Department: Electrical & Computer Engineering
Course: ECE 230
Title: Electromagnetic Waves
Instructor: Sobolewski, R. **Class Size:** 30
Prerequisites: MTH 163, MTH 164, PHY 122, ECE 113
Exams: Two in class exams and final exam
Coursework: weekly homework assignments, 3 lab, plus 3 pre-lab assignments
Description: TEM waves in transmission line structures, transient and steady state solutions. Applications in digital circuits, RF equipment, and optical communication networks. Maxwell's equations and wave equation in homogeneous media. Plane waves in homogeneous loss-less and low-loss media. Linear and circular polarization. Wave propagation in lossy/conducting media and skin effect. Dipole radiation, transceiver and receiver antennas, and antenna arrays. Satellite communications and fiber optical communications. Quantum communications.

Department: Electrical & Computer Engineering
Course: ECE 235
Title: Introduction to Opto-Electronics
Cross-listed: ECE 435, MSC 473
Instructor: Hsiang, T. **Class Size:** 30
Prerequisites: ECE 230 and ECE 221 or equivalent/permission of instructor
Description: Introduction to fundamentals of wave propagation in materials, waveguides and fibers, generation, modulation and detection of light using semiconductor devices, and elements of optocommunication systems.

Department: Electrical & Computer Engineering

Course: ECE 241
Title: Signals
Instructor: Titlebaum, E. **Class Size:** 60
Prerequisites: MTH 164, MTH 165/163 and ECE 113
Exams: three midterms. five laboratory projects based on MATLAB 6.0
Coursework: Weekly homeworks, Six laboratory projects throughout the semester.
Description: Introduction to continuous and discrete time signal theory and analysis of linear time-invariant systems. Signal representations, convolution, Fourier analysis, filtering of continuous and discrete time signals, Laplace and Z transforms. Laboratory.

Department: Electrical & Computer Engineering
Course: ECE 246
Title: Digital Signal Processing
Cross-listed: ECE 446
Instructor: Heinzelman, W. **Class Size:** 20
Prerequisites: ECE 241
Exams: two mid-terms and a final exam
Coursework: Weekly homeworks, monthly Matlab assignments.
Description: This course will begin with a review of discrete-time signals and systems. Following this, the course will cover topics related to the analysis and design of discrete-time signals and systems, including: difference equations, discrete-time filtering, z-transforms, A/D and D/A conversions, multi-rate signal processing, FIR and IIR filter design, the Discrete Fourier Transform (DFT), circular convolution, Fast Fourier Transform (FFT) algorithms, windowing, and classical spectral analysis.

Department: Electrical & Computer Engineering
Course: ECE 261
Title: Introduction to VLSI
Cross-listed: ECE 461
Instructor: Ampadu, P. **Class Size:** 20
Prerequisites: ECE 112 and ECE 221
Exams: final exam
Coursework: Extensive work in the lab is required
Description: Issues in digital integrated circuit design. The devices. CMOS Inverter. Combinational logic gates in CMOS. Designing sequential logic circuits. Designing arithmetic building blocks. Timing issues in digital circuits. Memories and array structures. Design verification and testing. Design projects using computer aided design tools: SPICE, MAGIC, IRSIUM, OCTTOOLS.

Department: Electrical & Computer Engineering
Course: ECE 266
Title: RF and Microwave Integrated Circuits

Cross-listed: ECE466
Instructor: Wu, H. **Class Size:** 30
Prerequisites: ECE222, ECE230 or equivalent. Permission of instructor
Coursework: Bi-weekly design lab; term project using EDA tools
Description: This course involves the analysis and design of radio-frequency (RF) and microwave integrated circuits at the transistor level. We begin with a review of electromagnetics and transmission line theory. Several concepts and techniques are then introduced, including Smith chart, s-parameters, and EM simulation. After discussion of RLC circuits, high-frequency narrow-band amplifiers are studied, followed by wideband amplifiers. Then we examine the important issue of noise with the design example of low-noise amplifiers (LNA). Nonlinear circuits are studied next with the examples of mixers and RF power amplifiers. A study of oscillators and phase noise follows. Afterwards we introduce phase-locked loops (PLL) and frequency synthesizers. The course concludes with an overview of transceivers architectures. The course emphasizes the development of both circuit design intuition and analytical skills. There are bi-weekly design labs and a term project using industry-standard EDA tools (ADS, Asitic).

Department: Electrical & Computer Engineering
Course: ECE 398
Title: Design Seminar
Instructor: Mottley, J.
Prerequisites: ECE111, 112, 113, 114
Restrictions: Not open to freshmen and sophomores
Coursework: Prepare a proposal for a Design project that will be carried out the next semester, depending on the area of concentration. Elements of the proposal include: definition of project requirements and product specifications and clarification.
Description: Students majoring in Electrical and Computer Engineering will take this course at the same time as their concentration elective and prepare a proposal for the Design Project to be carried out in the Spring semester. Students and instructor will consult with design project supervisors in various areas to devise a plan. Proposal might include: definition of project requirements and product specifications, clarification and verification of end user requirements, subsystem definition and interfaces, generation of project and testing plans, reliability analysis, product safety, compliance issues, manufacturability, cost, and documentation.

Department: Electrical & Computer Engineering
Course: ECE 401
Title: Advanced Computer Architecture
Cross-listed: ECE 201

Instructor: Huang, M. **Class Size:** 42
Prerequisites: ECE200 or equivalent.
Description: Please see ECE 201 for the course description.
Department: Electrical & Computer Engineering
Course: ECE 423
Title: Semiconductor Devices
Cross-listed: ECE 223 and MSC426
Instructor: Sobolewski, R. **Class Size:** 50
Prerequisites: ECE 221, ECE230, and PHY 123 or Instructor's approval
Exams: Midterm; Library research/review project-required; presentation and written report
Coursework: 6 homework assignments, research /review project
Description: Please see ECE 223 for the course description.

Department: Electrical & Computer Engineering
Course: ECE 435
Title: Intro to Optoelectronics
Cross-listed: ECE 235
Instructor: Hsiang, T. **Class Size:** 20
Prerequisites: ECE 230 and ECE 221 equivalent or permission of instructor
Description: Please see ECE 235 for the course description.

Department: Electrical & Computer Engineering
Course: ECE 440
Title: Introduction to Random Processes
Instructor: Waag, R.
Prerequisites: ECE242 or equivalent
Exams: Midterm and final
Coursework: About ten homework assignments
Description: An introduction to random signals and noise in linear systems. This knowledge will prove useful in the design and analysis of communication systems and signal processing. Review of selected topics in probability theory, random variables, random vectors, random sequences (random walk, Martingales, ARMA model, Markov chains), random processes (Poisson process, Gaussian process, Wiener process, Markov process), stationary and cyclostatioany processes, random process inputs to linear systems, ergodicity, filtering, linear estimation, bandlimited and bandpass processes.

Department: Electrical & Computer Engineering
Course: ECE 441
Title: Detection & Estimation Theory
Instructor: Vosoughi, A. **Class Size:** 20
Prerequisites: ECE440 or permission of instructor
Exams: midterm, term project, final

Coursework: Homework assignments and term project
Description: Classical detection and estimation theory (binary hypothesis; tests, M hypothesis, Bayes estimation, maximum likelihood estimation), minimum variance unbiased estimators. Cramer-Rao lower bound, best linear unbiased estimators least squares estimation, applications to detection of signals in noise and estimation of signal parameters. The role of signal design in Radar, Sonar and wireless communications will be discussed

Department: Electrical & Computer Engineering
Course: ECE 446
Title: Digital Signal Processing
Cross-listed: ECE246
Instructor: Heinzelman, W. **Class Size:** 20
Prerequisites: ECE241
Exams: two mid-terms and a final exam
Coursework: Weekly homeworks, monthly MATLAB assignments
Description: Please see ECE 246 for the course description.

Department: Electrical & Computer Engineering
Course: ECE 447
Title: Digital Image Processing **Class Size:** 30
Prerequisites: ECE242 with ECE440 and ECE446 recommended or permission of instructor
Exams: Midterm, term project and final
Coursework: homework and project assignments
Description: Digital image fundamentals. Elements of image processing systems. Image model and imaging geometry. Image sampling and quantization. 2D image transforms. Image enhancement and filter. Image degradation models and image restoration techniques. Image segmentation and classification. Image compression

Department: Electrical & Computer Engineering
Course: ECE 461
Title: Introduction to VLSI
Cross-listed: ECE 261
Instructor: Ampadu, P. **Class Size:** 20
Prerequisites: ECE 112 and ECE 221
Exams: final exam
Coursework: Extensive work in the lab is required
Description: Please see ECE 261 for the course description.

Department: Electrical & Computer Engineering
Course: ECE 466
Title: RF and Microwave Integrated Circuits
Cross-listed: ECE266

Instructor: Wu, H. **Class Size:** 30
Prerequisites: ECE 222, ECE 230 or equivalent. Permission of instructor
Coursework: Bi-weekly design lab; term project using EDA to
Description: Please see ECE 266 for the course description.

Department: Electrical & Computer Engineering
Course: ECE 589
Title: Preparing for Academic Careers in Engineering and Science
Instructor: Fauchet, P. **Class Size:** 30
Prerequisites: Restricted to advanced graduate students in engineering and the sciences who have completed at least two years of full-time study
Coursework: One two-hour meeting each week-attendance required. Weekly reading from the textbook and from the additional texts or handouts; Term paper; Survey of faculty and students within and outside the University of Rochester
Description: This course is intended for advanced graduate students (and post-docs) interested in pursuing a career as science or engineering professors. Topics to be covered include the academic enterprise (the new challenges in the 21st century), securing a faculty position, (how to interview and negotiate), the juggling act of the assistant professor (teaching, research, service; academic freedom vs. academic duty; professional development grant writing; achieving tenure.

Mechanical Engineering

Department: Mechanical Engineering
Course: ME 104Q
Title: Life's Structures: Mechanical Design in Nature and in the Technological World
Instructor: Perucchio, R. **Class Size:** 50
Description: Mechanical aspects of design in the context of two areas in which most students have a very good intuitive understanding: structures built and used by humankind over the centuries, and human and animal bodies. We examine how Newtonian Mechanics, material behavior, energy requirements, size and dimensional considerations define the boundaries of mechanical design in nature and in human technology. On the side of technology, the course studies the evolution of masonry buildings, of bridges, and of other structures. In the case of biological design, topics include bones and the skeletal system, the heart and the circulatory system, muscles and soft tissues. Students work in teams on several design projects, including written reports, model constructions, poster presentation.

Department: Mechanical Engineering
Course: ME 105

Title: Roman Structures: Engineering in the Classical World
Cross-listed: CLA213
Instructor: Perucchio, R. **Class Size:** 20
Description: A study on location of Roman engineering focused primarily on civil engineering structures, but also including topics in mechanics, hydraulics and materials. Modern theories in structural mechanics and strength of materials are used to analyze the practice, the achievements, and the limitations of Roman engineering. Topics include the development of structural form in antiquity, building and manufacturing techniques, construction machines and war implements, bridges, aqueducts, monumental buildings, vaults and domes. The courses begins with a mandatory three-week long program of study-on-location in Italy during the month of August, which includes extensive visits to Roman monuments, archeological sites, and museums in Rome. This course is part of a new interdisciplinary program between the Department of Mechanical Engineering and the Department of Religion and Classics. An additional program fee is required. Same as CLA 213.

Department: Mechanical Engineering
Course: ME 110
Title: Introduction to CAD
Instructor: Ronald, C. **Class Size:** 30
Restrictions: Permission of Department required
Exams: 2 exams, midterm and a final
Description: 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 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.

Department: Mechanical Engineering
Course: ME 120
Title: Engineering Mechanics I Statics
Instructor: Quesnel, D. **Class Size:** 90
Prerequisites: MTH 161
Exams: 3 midterms and 1 final
Description: Basic concepts; units; vector algebra; forces; moments; force systems; equilibrium. Plane trusses; method of joints; method of sections; space trusses; frames and machines. Centroids of lines, areas, and volumes; center of mass. Distributed loads on beams; internal forces in beams; distributed loads on cables; hydrostatics. Basic concepts of friction; dry friction; friction in machines.

Department: Mechanical Engineering
Course: ME 121
Title: Engineering Mechanics II
Instructor: Perucchio **Class Size:** 70
Prerequisites: MTH 161 and MTH 162 or their equivalents, ME 120
Description: This is the third course taken by Mechanical Engineers at the University of Rochester. It covers the engineering approach to the solution of dynamics problems with an emphasis on understanding the concepts. Topics include kinematics and kinetics of particles and rigid bodies with an introduction to vibration.

Department: Mechanical Engineering
Course: ME 201
Title: Boundary Value Problems
Cross-listed: MTH 281
Instructor: Clark, A. **Class Size:** 70
Prerequisites: MTH 164 and MTH 163 or MTH 165
Exams: 2 Midterms and a final
Coursework: Weekly homework and a project
Description: course covers the classical partial differential equations of mathematical physics: the heat equation, the Laplace equation, and the wave equation. The primary technique covered in the course is separation of variables, which leads to solutions in the form of eigenfunction expansions. The topics to be covered include the following: Fourier series; separation of variables; Sturm-Liouville theory; unbounded domains and the Fourier transform; spherical coordinates and Legendres equation; cylindrical coordinates and Bessels equation. The software package Mathematica will be used extensively in the course. Prior knowledge of Mathematica is helpful but not essential. In the last two weeks of the course, there will be a project on an assigned topic. The course will cover applications in heat conduction, electrostatics, fluid flow, and acoustics.

Department: Mechanical Engineering
Course: ME 204
Title: Mechanical Design
Instructor: Muir, C. **Class Size:** 45
Prerequisites: ME 226 (ME 211 recommended)
Exams: 2 exams
Coursework: term project, weekly homework
Description: The theory and application of structural mechanics to mechanical design. Topics include: matrix structural analysis and finite element techniques. Students will use the NASTRAN finite element program to solve a variety of design and analysis

problems. The term project consists of a team competition to design, analyze build, and test a lightweight structure.

Department: Mechanical Engineering
Course: ME 211
Title: Computational Methods in Engineering
Instructor: Gracewski, S. **Class Size:** 45
Prerequisites: MTH 163, MTH 164
Exams: Three exams.
Coursework: Eight homework assignments, each including programming assignments, term project.
Description: Introduction to Matlab; solution of linear equations; interpolation; numerical differentiation and integration; root finding; data fitting; numerical solution of ordinary differential equations.

Department: Mechanical Engineering
Course: ME 225
Title: Introduction to Fluid Dynamics
Instructor: Thomas, J. **Class Size:** 60
Prerequisites: MTH 163, MTH 164; PHY 121, ME 120, ME 123
Exams: Two or three in-class exams, final exam.
Coursework: Weekly problem sets.
Description: Fluid properties; fluid statics; kinematics of moving fluids; the Bernoulli equation and applications; control volume analysis; differential analysis of fluid flow; inviscid flow, plane potential flow; viscous flow, the Navier-Stokes equation; dimensional analysis, similitude; empirical analysis of pipe flows; flow over immersed bodies, boundary layers, lift and drag.

Department: Mechanical Engineering
Course: ME 242
Title: Solids and Materials Laboratory
Cross-listed: ME 462, MSC 407
Instructor: Li, J. C. M. **Class Size:** 42 Maximum
Prerequisites: ME 280, ME 226
Coursework: Laboratory Projects
Description: Lecture and laboratory. Lecture: engineering problem solving methodologies and review of basic statistics (homework and test). Laboratory: small (one week) laboratories dealing with solids/materials instrumentation (completion of several required), and an independent project (including proposal, experimentation, and final report). Most students will work in groups of three during much of the class.

Department: Mechanical Engineering
Course: ME 251
Title: Heat Power Applications **Class Size:** 60

Prerequisites: ME 123, ME 225 (may be taken concurrently)
Exams: One midterm exam and a final exam
Coursework: Design project
Description: Vapor power systems, gas power systems, refrigeration and heat pumps, internal combustion engines, compressors and turbines.

Department: Mechanical Engineering
Course: ME 280
Title: Introduction to Materials Science
Cross-listed: MSC 202
Instructor: Lambropoulos, J. **Class Size:** 40
Prerequisites: ME 226, PHY 122
Exams: 1 - 2 midterms, one final
Description: Properties of engineering materials including metals, alloys, ceramics, polymers and composites. Relationship of properties to the materials microstructure including atomic bonding, atomic arrangement, crystal structure, co-existing phases, interfaces, defects and impurities. Processing techniques for altering the microstructure and properties.

Department: Mechanical Engineering
Course: ME 402
Title: Partial Differential Equations
Instructor: Goncharov, V. **Class Size:** 15
Prerequisites: ME 201, MTH 282
Exams: Midterm and final
Description: Formulation of a typical problem; review of Sturm-Liouville theory. Occurrence of Laplace and Poisson equations; Greens functions; solutions in rectangular, cylindrical, and spherical coordinates. Occurrence of diffusion equation; Greens functions; scale relations in diffusion; vector fields and spherical decay modes; diffusion in moving materials; Burgers equation; Fishers equation. First order equations and the theory of characteristics; examples of kinematical waves. Wave equation and propagation; use of characteristics with wave equation; Helmholtz equation; combination of propagation and diffusion. Dispersive waves; dispersion relations; Fourier integral and stationary phase; group velocity and wave trains; Kramers-Kronig relations. Boundary layers and multiple scales; matched asymptotic expansions.

Department: Mechanical Engineering
Course: ME 434
Title: Introduction to Plasma Physics I
Cross-listed: PHY 454
Instructor: Ren, C. **Class Size:** 10
Prerequisites: PHY 217 or OPT 262
Exams: 1 midterm, 1 final

Description: Basic plasma parameters; quasi-neutrality, Debye length, plasma frequency, plasma parameter, Charged particle motion: orbit theory. Basic plasma equations; derivation of fluid equations from the Vlasov equation. Waves in plasmas. MHD theory.

Department: Mechanical Engineering
Course: ME 440
Title: Mechanics of Structures
Instructor: Lambropoulos, J. **Class Size:** 15
Prerequisites: ME226 or equivalent
Exams: Two exams
Description: Application of direct and indirect methods of the calculus of variations to the stress, deflection, and dynamic analysis of beam, ring and plate elements. Strain energy and complementary strain energy; variational principles; Lagrange multipliers, Rayleigh-Ritz method; Galerkin Method.

Department: Mechanical Engineering
Course: ME 444
Title: Continuum Mechanics
Instructor: Gans, R. **Class Size:** 10 - 20
Prerequisites: ME 225, ME 226, Math through ME 201/MTH 281, strong linear algebra, mathematical maturity
Exams: 2 exams, project or final TBD
Coursework: Weekly problem sets
Description: The mechanics of continuous media. Introduction to tensors and differential geometry in the context of deformation. Eulerian and Lagrangian formulations. Invariants and constitutive relations. Material symmetry and anisotropy. Conservation of mass, momentum and energy.

Department: Mechanical Engineering
Course: ME 461
Title: Fracture and Adhesion
Cross-listed: MSC 406
Instructor: Burns, S. **Class Size:** 42 Maximum
Prerequisites: ME 280, 226
Description: Stress fields near cracks in linear elasticity. Linear elastic fracture mechanics. Griffith fracture theory. K and J approaches to fracture. Failure analysis and fracture stability; crack tip deformation, crack tip shielding. Crack nucleation. Adhesion. Low cycle fatigue. Fatigue crack propagation. Emphasis on the role of microstructure in determining fracture, adhesion and fatigue behavior of materials; improving fracture toughness for advanced materials especially ceramics and polymers. This course is taught at a level that brings the student to the level of current research.

Department: Mechanical Engineering
Course: ME 462
Title: Experimental Materials Science
Cross-listed: ME 242, MSC 407
Instructor: Li, J. C. M. **Class Size:** 42 Maximum
Prerequisites: ME 280, ME 226
Coursework: Laboratory Projects
Description: Please see ME 242 for the course description.

Department: Mechanical Engineering
Course: ME 483
Title: Biosolid Mechanics
Cross-listed: BME 483
Instructor: Lerner, A. **Class Size:** 25
Prerequisites: ME 226 or equivalent
Exams: 1 exam, 1 term project, 6 homework assignments
Description: Please see BME 283 for the course description.

Department: Mechanical Engineering
Course: ME 492
Title: Corrosion
Instructor: Quesnel, David J.
Description: This is a first course in electrochemical corrosion aimed at first year graduate students. No background is assumed and the first week will cover corrosion overview at the level of ME 280. (at level of vanVlack or other general Materials Science texts) The goal of the course is to understand corrosion mechanisms in a way suitable to use this understanding in corrosion related experiments and modeling. We will cover the known infrastructure of corrosion science using two text books, Principles and Prevention of Corrosion 2nd Edition, by Denny A. Jones, Prentice Hall ISBN 0-13-359993-0 and Principles of Corrosion Engineering and Corrosion Control by Z. Ahmad, Butterworth-Heinemann, Elsevier, Amsterdam, first Edition 2006, ISBN # 0- 7506-5924-6, advancing to the use of articles from the open literature, particularly review articles. Topics include: galvanic behaviors, Pourbaix diagrams, thermodynamics of corrosion, basic reaction paths of corrosion, active paths, passivation, corrosion measurements, modern electrochemical instrumentation, and the meaning of their outcomes, sample preparations, anodic and cathodic protection. Examples will draw from pitting, fretting, uniform, filiform, and the many other types of corrosion. Some discussion of corrosion simulation methods. The successful student will be prepared for corrosion based research and will have an understanding of how to minimize the impact of corrosion on engineering systems.

Optics

Department: Optics
Course: OPT 101
Title: Optics in the Information Age
Instructor: Wayne Knox **Class Size:** no limit
Prerequisites: None.
Description: Forget glasses. This course begins with a discussion of the properties of Light: refraction, imaging, diffraction, interference, the historical development of optical instruments (the microscope, telescope, laser) then moves into topics not limited to the Internet, high-speed information access, information storage and display, as well as new medical instruments, therapies and applications. Several demonstrations and conceptual models are presented.

Department: Optics
Course: OPT 211
Title: Computational Methods in Optics
Instructor: Thomas G. Brown **Class Size:** 35
Prerequisites: Prerequisites: MTH 162 and concurrent enrollment in MTH 164
Description: This course introduces techniques of transforming continuous problems to discrete mathematical models. Students learn computational methods for solving problems in optics using high level software. Includes labs.

Department: Optics
Course: OPT 224
Title: Laser Systems
Instructor: Chunlei Guo **Class Size:** 35
Prerequisites: OPT 241 and OPT 261. MTH 163 or 165 recommended.
Description: Fundamentals and applications of lasers and laser systems, including optical amplification, cavity design, beam propagation and modulation. Emphasis is placed on developing the basic principles needed to design new systems as well as an understanding of the operation of those currently in use. Prerequisites: some knowledge of simple quantum mechanics and scalar diffraction theory is assumed.

Department: Optics
Course: OPT 226
Title: Optoelectronics I
Instructor: Robert Boyd **Class Size:** 35
Prerequisites: OPT 261, OPT 262
Restrictions: Open only to senior majors or by permission of instructor

Description: Introduction to the physics of optoelectronics. Light propagation in restricted geometries including waveguides and optical fibers. Dispersion and loss in linear and nonlinear pulse propagation. Passive optoelectronic devices: detectors and couplers. Active opto- electronic devices: lasers and modulators. Coupling between passive and between active and passive elements.

Department: Optics
Course: OPT 242
Title: Aberrations, Interferometry and Testing
Instructor: James Zavislan
Prerequisites: OPT 241 OPT 261 OPT 241, OPT 261
Description: Geometrical and diffraction theory of image formation. Optical transfer functions. Measurement of first-order properties. Seidel aberrations. Tests of aberrated systems. Seidel contribution formulae. Two beam interferometry. Interferometers in optical testing. Shearing, point diffraction, and heterodyne interferometers.

Department: Optics
Course: OPT 256
Title: Optics Laboratory
Instructor: Ken Teegarden, David Berg **Class Size:** 16
Prerequisites: OPT 242, OPT 261, OPT 262
Restrictions: Open only to senior majors or by permission of instructor
Description: 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

Department: Optics
Course: OPT 263K
Title: Quantum Optics and Quantum Information Laboratory
Instructor: S. Lukishova **Class Size:** 6
Prerequisites: PHY 123 or 143
Restrictions: Permission of instructor required
Description: This advanced optics teaching laboratory course will expose students to cutting-edge photon counting instrumentation and methods with applications ranging from quantum information to biotechnology and medicine. It will be based on quantum information, the new, exciting application of photon counting instrumentation. As much as wireless communication has impacted daily life already, the abstract theory of quantum mechanics promises solutions to a series of problems with similar impact on the twenty-first century. Major topics will be entanglement and Bells inequalities, single-photon interference,

single-emitter confocal fluorescence microscopy, Hanbury Brown and Twiss correlations/photon antibunching. Photonic based quantum computing and quantum cryptography will be outlined in the course manuals as possible applications of these concepts and tools. The full course will consist of four laboratory experiments and a special final meeting of students oral presentations. It will be taught twice per week for three hours (total twelve weeks). Learning technical skills on cutting-edge instrumentation, students will be simultaneously exposed to case studies of how real companies are using these instruments to create a market value from the ideas, and what challenges they are faced with. This course will have an entrepreneurial component as well with the so-called summary business plan. In addition to technical lab reports all students should submit a one, ~ 10-pages summary business plan at the end of semester. It will contain all elements of a real business plan for a company involved in the photon-counting instrumentation business, but a much shorter version than a full-fledged business plan. The example of a full-fledged business plan will be provided for a technological company as prepared by students taking the entrepreneurial course at Business School.

Department: Optics
Course: OPT 396
Title: Honors Project
Instructor: Brown, T.
Restrictions: Permission of instructor required
Description: The Undergraduate Honors Program at The Institute of Optics is offered to those seniors who have qualified for the optics major and have an overall grade point average of at least 3.6 after the fall semester of their junior year. Qualifying students will spend two semesters (8 semester hours of credit) doing research under the supervision of an optics faculty member.

Department: Optics
Course: OPT 411
Title: Complex Analysis and Mathematical Methods
Cross-listed: PHY 401
Instructor: Miguel Alonso **Class Size:** 35
Prerequisites: ME 201, 202 or equivalent; or permission of the Instructor
Restrictions: Open only to graduate students in offering department
Description: Study of mathematical techniques such as contour integration, transform theory, Fourier transforms, asymptotic expansions, and Green's functions, as applied to differential, difference, and integral equations.

Department: Optics

Course: OPT 425
Title: Radiation and Detectors
Instructor: Gary Wicks **Class Size:** 30
Restrictions: Permission of instructor required for undergraduates
Description: The generation, detection, and measurement of optical radiation. The following topics are covered: definitions of radiance, intensity, irradiance, exitance, solid angle; the Planck radiation law; approximations to the radiation law and their use in engineering calculations; emissivity and properties of radiation sources; Kirchhoff's law; irradiance in optical imaging systems; detector responsivity; noise in the detection process; the Fowler-Einstein equation and Poisson statistics; the spectral density of bandlimited noise; Carson's theorem; shot noise; temperature noise in thermal and quantum detectors; Johnson noise in electric circuits; direct and heterodyne detection schemes; transient response of detectors; detective quantum efficiency; thermal detectors; photoemissive detectors; photoconductive and photovoltaic detectors; television camera tubes; and charge-coupled detector arrays; photometry; and colorimetry.

Department: Optics
Course: OPT 441
Title: Geometrical and Instrumental Optics I **Class Size:** 35
Description: These courses are designed to give the student a basic working knowledge of image-forming optical systems. They are designed to be taken sequentially: 441 is a prerequisite for 442. The courses are oriented toward problem solving. Material covered in the first term includes: image formation, raytracing and first-order properties of systems; magnification, F/number, and numerical aperture; stops and pupils, telecentricity vignetting; telescopes, microscopes, magnifiers, and projection systems; the Delano diagram; the eye and visual systems, field lenses; optical glasses, the chromatic aberrations, and their correction; derivation of the monochromatic wavefront aberrations and study of their effects upon the image; third order properties of systems of thin lenses; effects of stop position and lens bending; aplanatic, image centered, and pupil centered surfaces; and field flatteners.

Department: Optics
Course: OPT 461
Title: Physical Optics I
Instructor: Fienup, J. **Class Size:** 60
Prerequisites: Undergraduate electromagnetic theory, advanced calculus, linear algebra
Restrictions: Permission of instructor required for undergraduates
Description: The principles of physical optics including diffraction and propagation based on Fourier transform theory; integral

formulation of electromagnetic propagation; diffraction from apertures and scattering objects; applications to optics of Fourier transform theory, sampling expansions, impulse response, propagation through optical systems, imaging and transforming, optical transfer function, optical filtering; and selected topics of current research interest.

Department: Optics
Course: OPT 551
Title: Introduction to Quantum Optics
Instructor: Carlos Stroud **Class Size:** 35
Prerequisites: OPT 412 or PHY 407/408 or permission of the instructor.
Description: This course gives an introduction to modern theoretical methods in quantum electronics and quantum optics. It is designed to provide a background for theoretical or experimental work in these areas. Topics discussed include: Absorption and emission of radiation by atoms both far from and near to resonance, using the Lorentz model and the two-level model of an atom, the optical Bloch equations and the atomic density matrix, relaxation phenomena and line widths, optical pulse propagation, nonlinear coherence effects, saturation spectroscopy, Raman processes, photoionization and multiphoton effects.

William E. Simon School Business Administration

Department: Simon School
Course: ACC 201
Title: Principles of Accounting **Class Size:** 40-60
Restrictions: Permission of instructor required for freshmen
Description: An introduction to the principles and procedures used by organizations to record economic transactions that affect them, and to report the net effect of these transactions to interested external parties. The course will cover the judgment inherent in certain aspects of the recording and reporting process, the acceptable alternatives for recording a given transaction, and the 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: Simon School
Course: CIS 215
Title: Management Information Systems **Class Size:** 15

Prerequisites: one of ECE114 or CSC 170 or CSC171 courses
Description: A survey of information system technology and its application to the various functional areas of business. Topics include a complete overview of computer hardware and software, introduction to systems analysis, database management systems, data communications, system development and acquisition, e-commerce, management of enterprise computing resources and an analysis of the strategic considerations of information systems for business.

Department: Simon School
Course: FIN 205
Title: Financial Management **Class Size:** 45-55
Prerequisites: ACC 201; ECO 207 or equivalent
Restrictions: Not open to freshmen and sophomores Permission of instructor required for freshmen
Description: This course provides a market oriented framework for analyzing the major types of financial decisions made by corporations. Discounted cash flow techniques are introduced and applied to the 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: Simon School
Course: GBA 157
Title: Fundamentals of Business - Why Businesses Succeed and Fail **Class Size:** 30-34
Restrictions: Not open to freshmen and sophomores
Description: 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: LAW 205
Title: Business Law **Class Size:** 30-40
Restrictions: Not open to freshmen and sophomores
Description: 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: Simon School
Course: MKT 203
Title: Principles of Marketing **Class Size:** 30
Prerequisites: ACC 201; ECO 207 or equivalent
Description: 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: Simon School
Course: OMG 231
Title: Operations Management **Class Size:** 15
Restrictions: Not open to freshmen
Description: This course discusses problems encountered in managing the production of goods and services, and models and techniques for dealing with these problems. Emphasis is on developing analytic insight into selected models. Topics include strategy and tactics, decision theory, forecasting, production management, supply chain management and project control. The dynamics of global operations and marketplace are also discussed at length. Video presentations and case discussions are also included to gain practical insights into the operations function. Students are also required to work on a library research paper.